

Supplementary Materials

Metagenomic Analysis Reveals the Novel Role of Vaginal *Lactobacillus iners* in Chinese Healthy Pregnant Women

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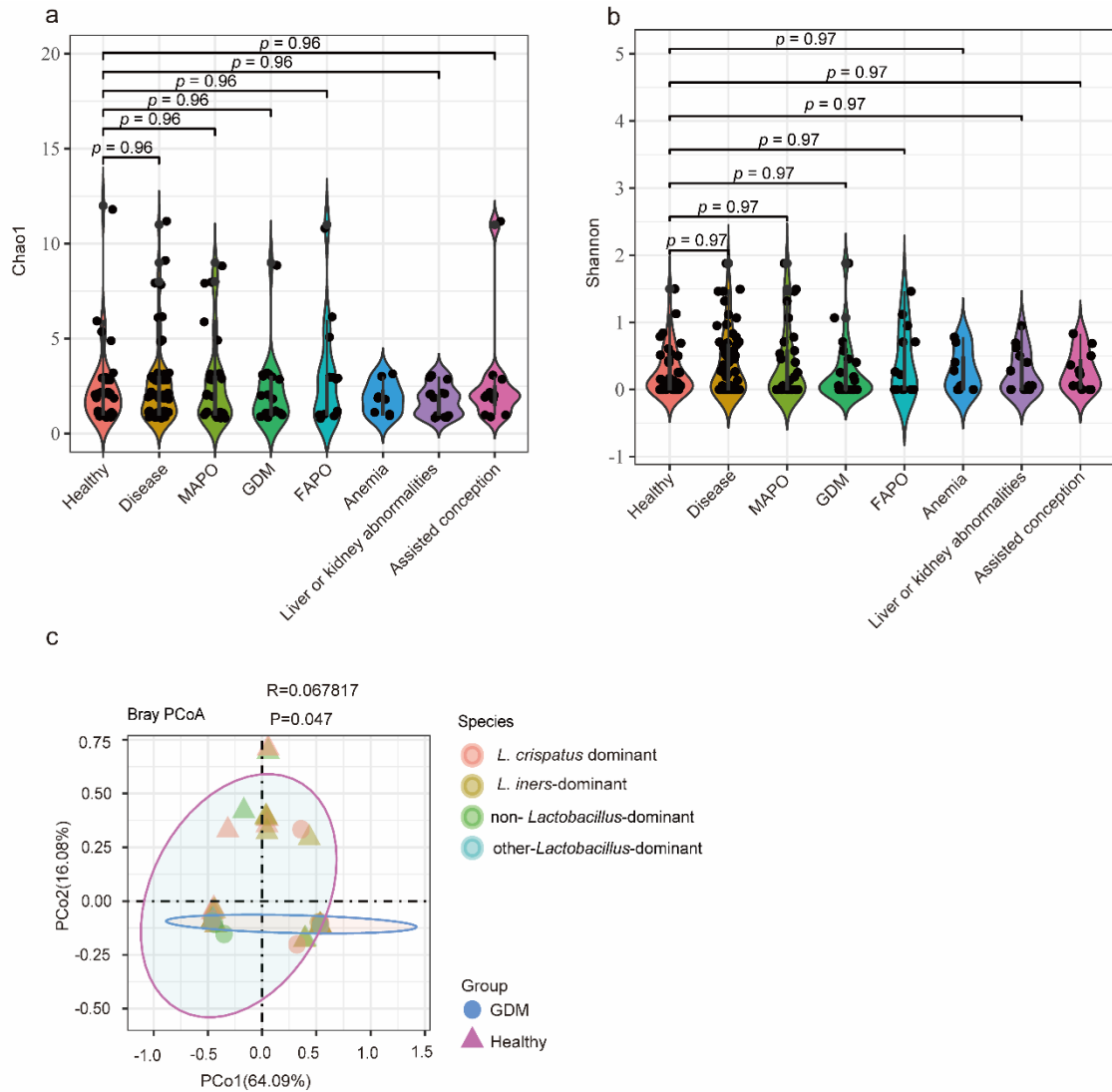
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These authors contributed equally to this study

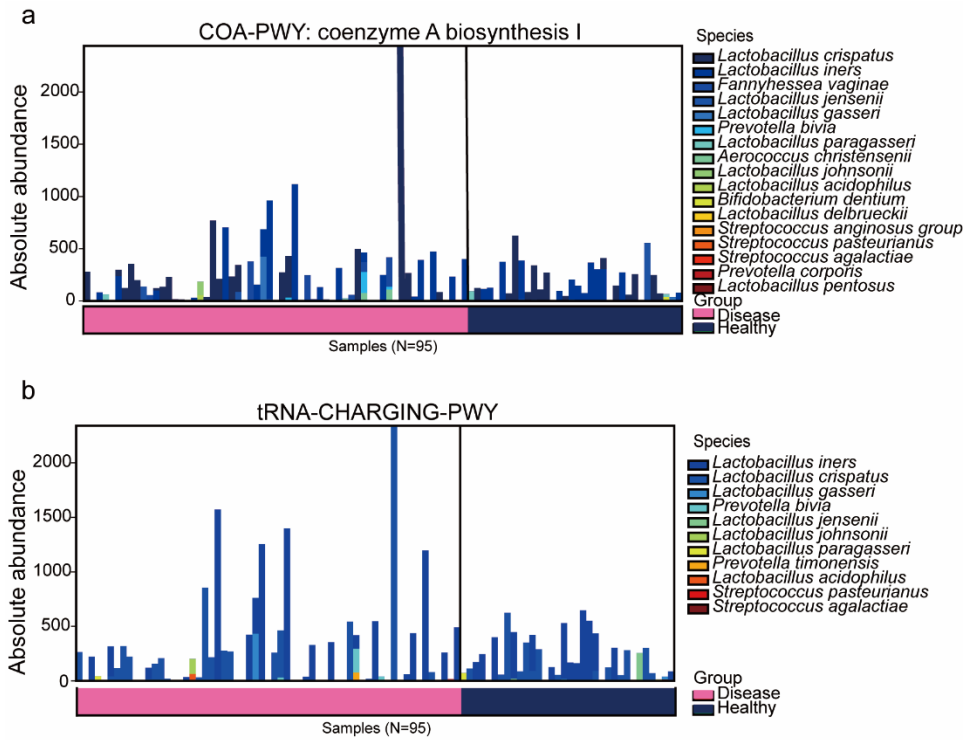
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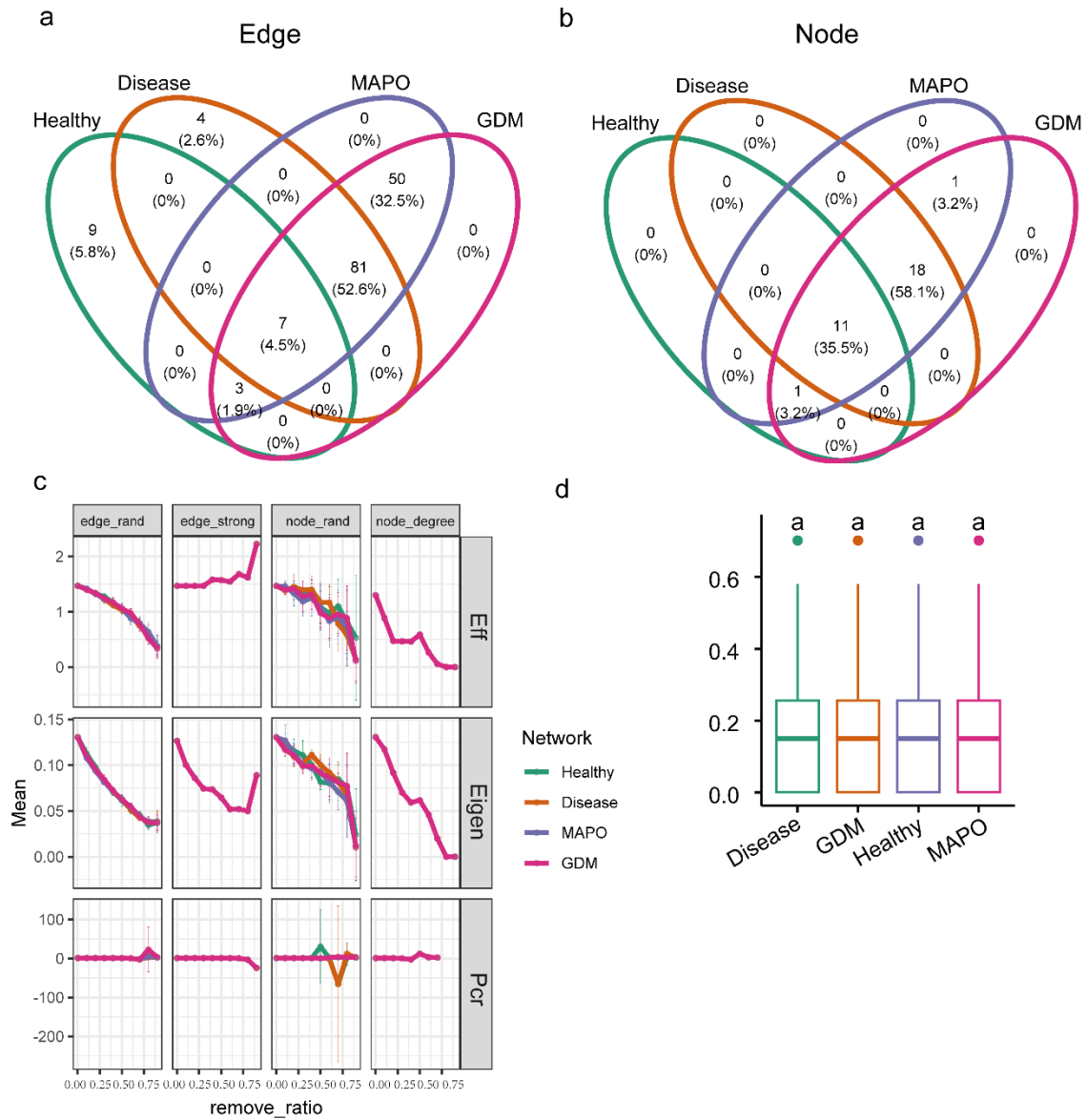
Supplementary Tables 1-11



Supplementary Figure 1. (a) Violin plot showing the Chao1 diversity index for each group. The width of each violin represents the density of data points, and the inner box plot indicates the median and interquartile range of species abundance. (b) Violin plot showing the Shannon diversity index for each group. (c) Principal Component Analysis (PCA) of the vaginal microbiota taxon community demonstrates variation between healthy and diseased women based on Bray-Curtis distance, with the Adonis test indicating $R = 0.062$ and $p = 0.047$.

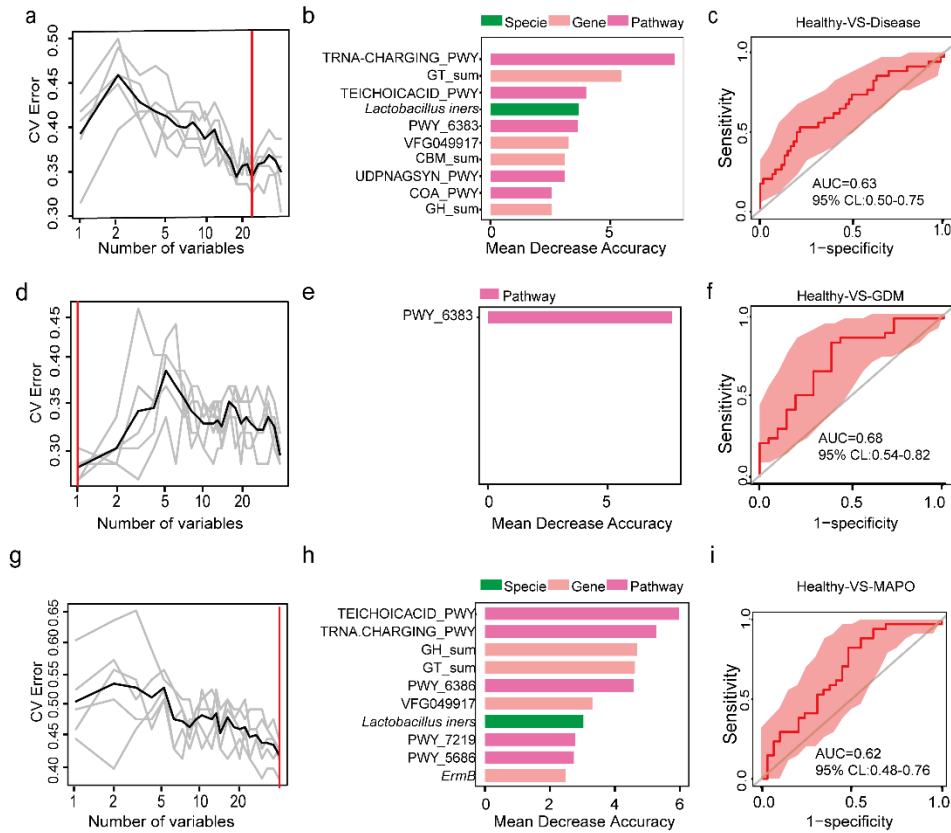


Supplementary Figure 2. (a) Species contribution to COA-PWY pathways across 95 samples. (b) Species contribution to tRNA-CHARGING-PWY pathways across 95 samples.



Supplementary Figure 3. (a) Wen's diagram depicting edges of the microbial community in the Healthy, Disease, MAPO, and GDM groups. (b) Wen's diagram depicting the nodes of the microbial community in the Healthy, Disease, MAPO, and GDM groups. (c) The robustness of the vaginal microbial community in Healthy, Disease, MAPO, and GDM groups. Edge_rand: random removal of edges; edge_strong: removal of edges in descending order by weight; node_rand: random removal of nodes; node_degree_high: removal of nodes in descending order by node degree, etc. Eff value: measures the overall

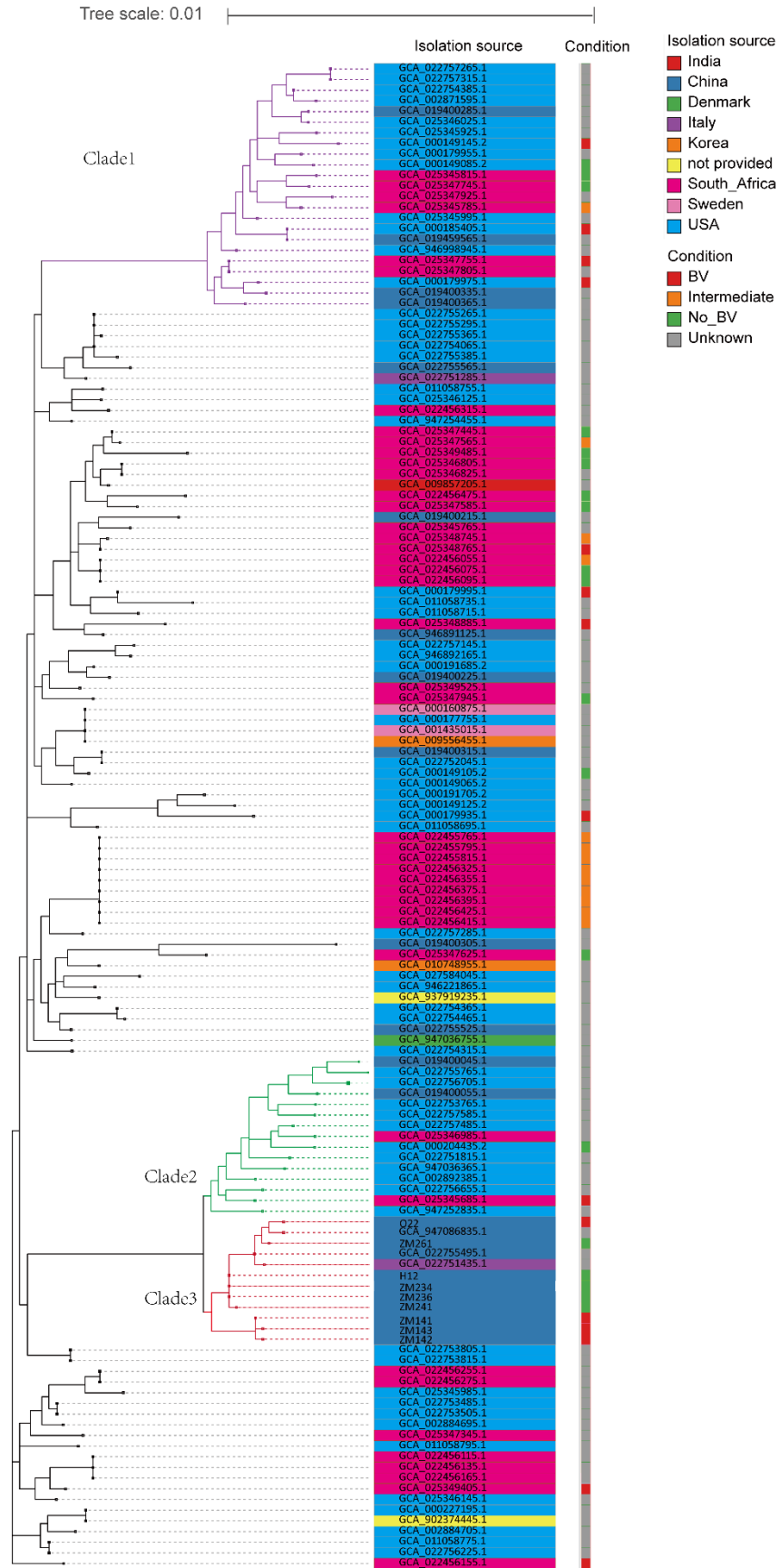
information transmission efficiency of the network; Eigen value: measures the natural connectivity and structural stability of the network; Pcr value: measures the proportion of critical nodes or edges needed to dismantle the network, serving as an indicator of the network's resistance to random attacks. The x-axis represents the proportion of edges or nodes removed. (d) Analysis of the network connectivity within the vaginal microbial community in Healthy, Disease, MAPO, and GDM groups



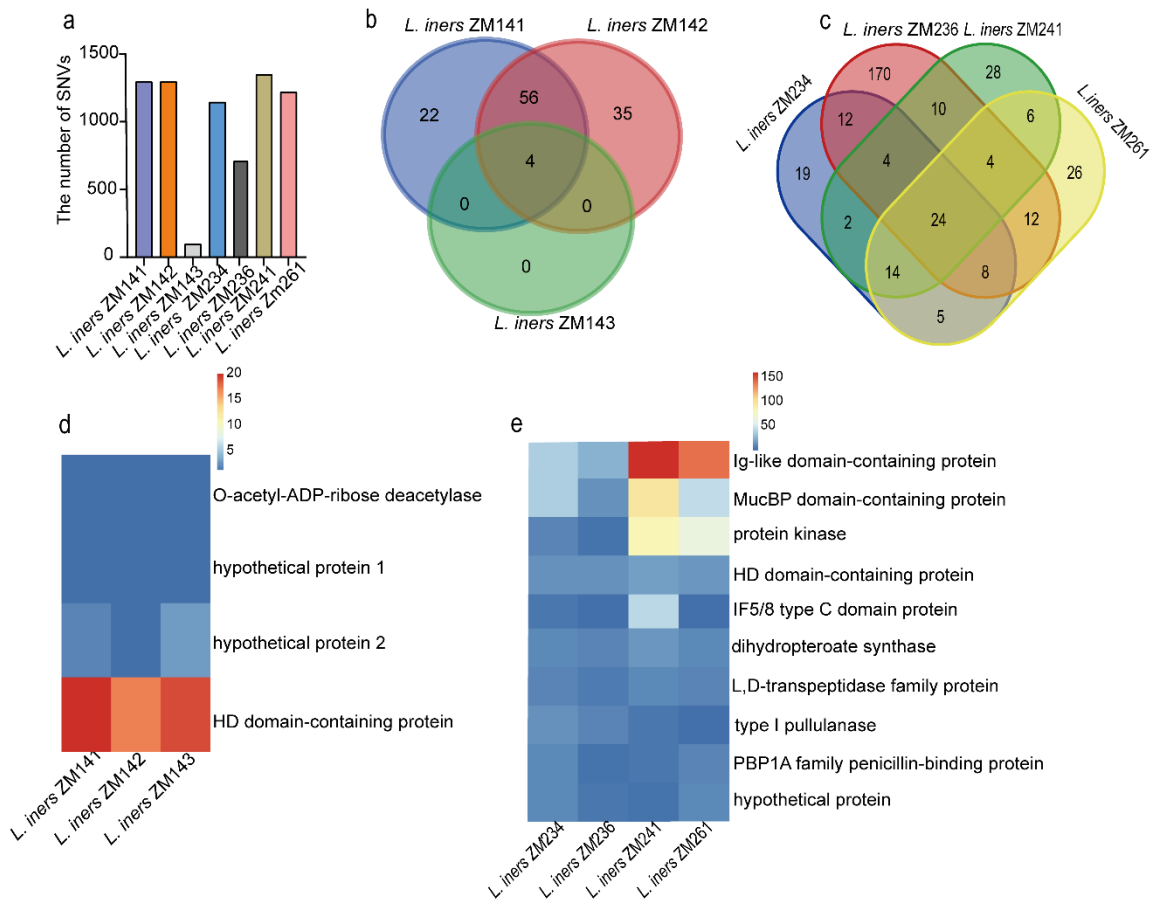
Supplementary Figure 4. Vaginal microbial signatures predict healthy Chinese pregnant women in the third trimester. Predictive performance of a healthy vaginal microbiome in Chinese pregnant women using a training set that includes (a-c) Healthy and Disease groups, (d-f) Healthy and GDM groups, and (g-i) Healthy and MAPO groups. A random forest model was trained using the relative abundance of vaginal microbial species, pathways, and microbial gene-level profiles. The gray line in the figure represents the cross-validation error for five separate training sessions. The dark curve represents the

average cross-validation error for the five training sessions. The red line represents the number of filter indicators in the optimization model. The model with the smallest number of filter indicators that maintains an error below the cutoff was chosen as the optimal classifier.

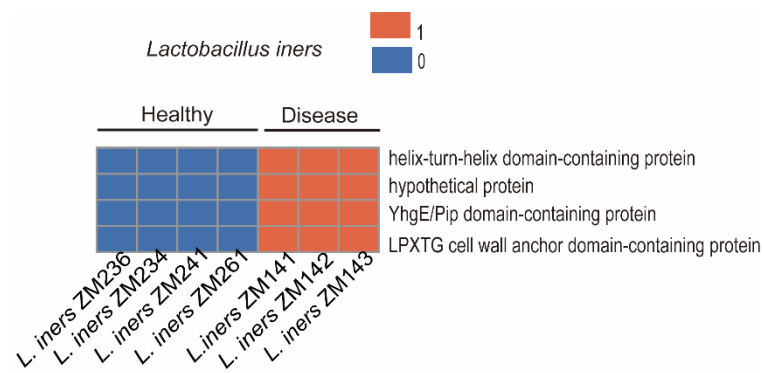
Supplementary Figure 5. Phylogenetic tree of 43 metagenome assembled genomes (MAGs) from this study. The tree was constructed based on 120 single-copy core genes and was built using the multiple sequence alignment methods. Each MAG represents a genome obtained from an individual metagenome sample. Pink: MAGs from Disease samples, dark blue: MAGs from Healthy samples.



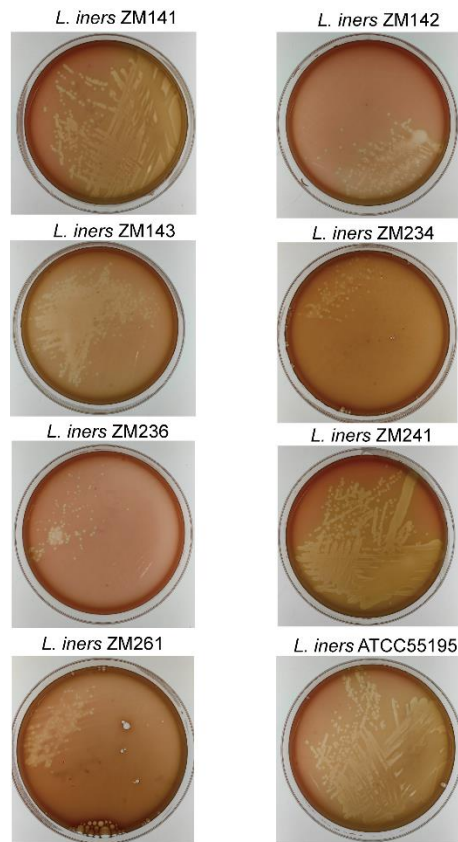
Supplementary Figure 6. The phylogenetic tree of 141 *L. iners* strains. The tree was constructed based on 120 single-copy core genes. Purple represents Clade1, green represents Clade2, and red represents Clade3. The outer rectangle of the phylogenetic tree shows the sources from which each *L. iners* strain was isolated, the healthy status of hosts, and the genome names.



Supplementary Figure 7. The nucleotide diversity of seven *L. iners* isolates obtained from Chinese pregnant women. (a) The number of single nucleotide variants (SNVs) in each of the seven *L. iners* isolates, (b) Wen's diagram depicting genes with SNVs in four *L. iners* isolates derived from healthy individual conditions. (c) Wen's diagram depicting genes with SNVs in three *L. iners* isolates obtained from individuals in a diseased condition. (d) A heatmap displaying four common mutant genes in the four *L. iners* isolates from the Healthy group. (e) A heatmap displaying four common mutant genes in the four *L. iners* isolates from the Disease group.



Supplementary Figure 8. Heatmap of the differential gene presence of *L. iners* strains isolated from individuals with both healthy and diseased statuses. Orange indicates the presence of the gene (n = 1), and blue indicates the absence of the gene (n = 0).



Supplementary Figure 9. Morphological observation of 7 *L. iners* strains on Columbia blood plates for 72 hours, with ATCC55195 as a reference strain.

Supplementary Table 1 Metadata overview of 95 Chinese pregnant women in this study

Sample_ID	Trimesters	Condition	Microbial infections	Liver and kidney abnormalities	Advanced maternal age	Thrombophilia	GDM	MAPO	FAPO	FAPO(history)	Assisted conception	anemia
O7	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H18	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H16	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H29	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H13	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H5	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H28	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
O1	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
O2	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G17	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G18	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G20	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G7	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G12	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G2	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G15	3nd	Disease	NA	NA	older pregnant women	NA	GDM	MAPO	NA	NA	assisted conception	NA
G1	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	assisted conception	NA
G8	3nd	Disease	NA	NA	older pregnant women	NA	GDM	MAPO	FAPO	NA	NA	NA
G16	3nd	Disease	NA	kidney anomalies	NA	NA	GDM	MAPO	NA	NA	NA	anemia
G14	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	FAPO	NA	NA	NA
G10	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G4	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	NA
G6	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	FAPO	NA	NA	NA
G9	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	FAPO(history)	NA	NA

Sample_ID	Trimesters	Condition	Microbial infections	Liver and kidney abnormalities	Advanced maternal age	Thrombophilia	GDM	MAPO	FAPO	FAPO(history)	Assisted conception	anemia
G21	3nd	Disease	NA	NA	older pregnant women	NA	GDM	MAPO	NA	FAPO(history)	NA	NA
G19	3nd	Disease	group B streptococcus	NA	older pregnant women	NA	GDM	MAPO	NA	NA	NA	NA
G13	3nd	Disease	group B streptococcus	NA	NA	thrombophilia	GDM	MAPO	NA	NA	NA	NA
G11	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	FAPO	FAPO(history)	NA	NA
G05	3nd	Disease	NA	NA	NA	NA	GDM	MAPO	NA	NA	NA	anemia
H37	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	FAPO(history)	assisted conception	NA
H38	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	FAPO(history)	assisted conception	NA
H36	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	FAPO(history)	assisted conception	NA
H41	3nd	Disease	NA	NA	NA	thrombophilia	NA	NA	NA	NA	assisted conception	NA
H39	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	FAPO(history)	NA	NA
H19	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	NA
H32	3nd	Disease	NA	kidney anomalies	NA	NA	NA	NA	FAPO	NA	NA	NA
H22	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	anemia
H07	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	MAPO	NA	NA	NA	NA
H23	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	MAPO	NA	FAPO(history)	NA	NA
H20	3nd	Disease	group B streptococcus	NA	NA	NA	NA	NA	NA	NA	NA	NA
H21	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	NA	NA
O11	3nd	Disease	NA	NA	older pregnant women	NA	NA	NA	NA	FAPO(history)	assisted conception	NA
O32	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	FAPO(history)	assisted conception	anemia
O10	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	FAPO(history)	assisted conception	anemia
O08	3nd	Disease	NA	NA	NA	NA	NA	NA	NA	NA	NA	anemia
O03	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	NA
O04	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	anemia
O06	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	NA
O05	3nd	Disease	NA	NA	older pregnant women	thrombophilia	NA	NA	NA	NA	NA	NA

Sample_ID	Trimesters	Condition	Microbial infections	Liver and kidney abnormalities	Advanced maternal age	Thrombophilia	GDM	MAPO	FAPO	FAPO(history)	Assisted conception	anemia
O09	3nd	Disease	NA	Liver and kidney abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O12	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	FAPO(history)	NA	NA
O13	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	assisted conception	NA
O14	3nd	Disease	candida	NA	NA	NA	NA	NA	NA	NA	NA	NA
O31	3nd	Disease	candida	NA	NA	NA	NA	NA	NA	NA	NA	NA
O15	3nd	Disease	NA	NA	NA	thrombophilia	NA	NA	NA	NA	NA	NA
O17	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	NA
O16	3nd	Disease	NA	NA	NA	NA	NA	MAPO	NA	NA	NA	NA
O18	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	NA	anemia
O19	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	NA	NA
O21	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	NA	NA
O20	3nd	Disease	NA	NA	NA	NA	NA	NA	FAPO	NA	NA	NA
O22	3nd	Disease	candida	NA	NA	NA	NA	NA	FAPO	NA	NA	NA
O30	3nd	Disease	NA	Liver abnormalities	older pregnant women	NA	GDM	MAPO	NA	NA	assisted conception	NA
O26	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O23	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O24	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O25	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O27	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O29	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
O28	3nd	Disease	NA	Liver abnormalities	NA	NA	NA	NA	NA	NA	NA	NA
H01	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H02	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H03	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H04	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample_ID	Trimesters	Condition	Microbial infections	Liver and kidney abnormalities	Advanced maternal age	Thrombophilia	GDM	MAPO	FAPO	FAPO(history)	Assisted conception	anemia
H06	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H08	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H09	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H10	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H11	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H12	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H14	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H15	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H17	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H25	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H26	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H27	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H30	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H31	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H33	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H34	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H35	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H40	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H42	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H43	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H44	3nd	Healthy	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample_ID	additional information
O7	twin pregnancy with double chorionic villi and double amniotic sacs
H18	Health (6th child)
H16	Health (third child)
H29	Healthy, 37 years old, advanced age
H13	Rh (-) negative blood type, healthy
H5	Proteinuria, hospitalized and planned to give birth
H28	Health, fetal abnormal development?
O1	Fetal Growth Restriction (FGR)
O2	Fetal intrauterine growth restriction (FGR)
G17	LOA single live fetus, gestational diabetes A2
G18	Gestational diabetes A2
G20	Gestational diabetes A2
G7	Gestational diabetes
G12	Pregnancy diabetes A1
G2	Gestational diabetes A2
G15	ROA single live fetus, gestational diabetes A2, elderly parturient, after in vitro fertilization and embryo transfer
G1	Gestational diabetes A2, after in vitro fertilization and embryo transfer
G8	GDM (Grade A2), pregnancy with hypertension, premature delivery, and elderly women
G16	LOA single live fetus, gestational diabetes A2, mild anemia, left renal nodule
G14	Pregnancy diabetes, high risk of pre eclampsia, high risk of fetal growth restriction, multiple rhabdomyoma of fetal heart
G10	Gestational diabetes A2, hysteromyoma
G4	Diabetes grade A2 in pregnancy and proteinuria in pregnancy
G6	Pregnancy diabetes, pregnancy with hypothyroidism, premature rupture of membranes, ROA single live fetus
G9	Pregnancy diabetes grade A1, pregnancy with hypothyroidism, giant hysteromyoma, adverse pregnancy and childbirth history (history of embryo termination)

Sample_ID	additional information
G21	Pregnancy diabetes grade A2, elderly puerpera, obesity, poor pregnancy and childbirth history
G19	Pregnancy diabetes grade A2, no lactococcus infection in the reproductive tract, elderly puerpera, fetal distress in utero (not bad pregnancy outcome)
G13	Reproductive tract without streptococcus lactis infection, diabetes A2 during pregnancy, prethrombotic state, LOA single live fetus
G11	Premature rupture of membranes, grade A2 gestational diabetes, adverse pregnancy and childbirth history
G05	threatened abortion (not including adverse pregnancy outcomes), mild β Thalassemia, gestational diabetes A2
H37	LOA single live birth, after in vitro fertilization embryo transfer, and poor pregnancy and delivery history
H38	ROA single live birth, after in vitro fertilization embryo transfer, and poor pregnancy and delivery history
H36	After IVF-ET, history of adverse pregnancy and ROA single live birth
H41	Thrombophilia, after artificial insemination and embryo transfer
H39	LOA single live birth, adverse pregnancy history, abnormal liver function
H19	Scarred uterus (after myomectomy), pregnancy with uterine fibroids (which may affect the vaginal flora) (can it be classified as healthy?)
H32	Healthy, fetal pelvic ectopic kidney, left double renal pelvis duplication malformation?
H22	light alpha-thalassemia
H07	Intrahepatic cholestasis of pregnancy
H23	Intrahepatic cholestasis of pregnancy, adverse pregnancy and delivery history (ectopic pregnancy)
H20	No GBS infection in the lower reproductive tract, healthy
H21	Premature labor (symptoms before delivery), sinus arrhythmia, fetal femur short
O11	LOA singleton live birth, fetal growth restriction, advanced maternal age, adverse pregnancy and delivery history, and post-in vitro fertilization embryo transfer
O32	After IVF-ET, α -thalassemia carrier, recurrent abortion
O10	Mild anemia, poor pregnancy and delivery history (history of stillbirth), after IVF-ET
O08	, light β -thalassemia
O03	Pregnancy with hypothyroidism (affecting the vaginal flora)
O04	Pregnancy with hypothyroidism and mild α -thalassemia
O06	Pregnancy with systemic lupus erythematosus
O05	Prethrombotic state, elderly pregnant women

Sample_ID	additional information
O09	After surgery for right renal clear cell carcinoma, multiple hemangiomas in the liver, gallbladder polyps, and bilateral renal hydrops (?).
O12	(recurrent) abortion
O13	Test-tube baby twins: B1: found dead fetus on ultrasound at 38 weeks and requested termination of pregnancy;B2: cleft lip and palate, etc., abnormal fetal reduction
O14	(asymptomatic) vulvovaginal candidiasis
O31	(asymptomatic) vulvovaginal candidiasis
O15	Thrombosis and incomplete right bundle branch block: T-wave changes
O17	Hypertensive disorder complicating pregnancy
O16	Hypertensive disorder complicating pregnancy, G-6-PD deficiency
O18	Premature rupture of membranes, mild alpha-thalassemia
O19	Premature rupture of fetal membranes, preterm labor
O21	clinical aura (not including MAPO) and premature rupture of fetal membranes
O20	Premature labor (excluding FAPO) and premature rupture of fetal membranes
O22	Premature rupture of membranes, candida vaginitis
O30	LOA single live fetus, diabetes A2 during pregnancy, hepatitis B virus carrier, elderly puerpera, after in vitro fertilization and embryo transfer
O26	Threatened labor, hepatitis B virus carrier, obesity after right fallopian tube resection (BMI=30.16)
O23	Hepatitis B virus carriers
O24	Hepatitis B virus carriers
O25	Hepatitis B virus carriers
O27	Hepatitis B virus carriers
O29	Hepatitis B virus carriers
O28	High risk of hepatitis B virus carriers and trisomy 21
H01	Healthy
H02	Healthy
H03	Healthy
H04	Healthy

Sample_ID	additional information
H06	Healthy
H08	Healthy
H09	Healthy
H10	Healthy
H11	Healthy
H12	Healthy
H14	Healthy
H15	Healthy
H17	Healthy
H25	Healthy
H26	Healthy
H27	Healthy
H30	Healthy
H31	Healthy
H33	Healthy
H34	Healthy
H35	Healthy
H40	Healthy
H42	Healthy
H43	Healthy
H44	Healthy

Sample_ID	cw14 metabolic pathway	OGTT (fasting and postprandial blood glucose levels at 60 and 120 minutes after a 24-hour fast, in mmol/L)
O7	NA	NA
H18	normal	NA
H16	normal	NA
H29	normal	NA
H13	normal	NA
H5	NA	NA
H28	NA	NA
O1	NA	NA
O2	NA	NA
G17	normal	4.49-10.76-5.92
G18	normal	4.23-8.35-8.72
G20	normal	4.91-9.22-9.06
G7	normal	NA
G12	normal	5.33- 5.58-4.90
G2	normal	4.50-12.10-8.48
G15	normal	4.72-10.26-7.08
G1	normal	5.70- 8.90-6.50
G8	normal	4.59-10.00-8.50
G16	normal	5.04-10.67-10..24
G14	normal	4.37-10.06-7.29
G10	normal	4.78- 8.75-9.18
G4	normal	4.45-10.64-5.87
G6	normal	3.65-10.18-8.51
G9	normal	4.82-10.19-5.52

Sample_ID	cw14 metabolic pathway	OGTT (fasting and postprandial blood glucose levels at 60 and 120 minutes after a 24-hour fast, in mmol/L)
G21	normal	5.28-9.3-8.15
G19	normal	NA
G13	normal	无OGTT
G11	normal	5.67- 8.84-7.67
G05	normal	5.30- 8.13-6.52
H37	NA	NA
H38	NA	NA
H36	NA	NA
H41	NA	
H39	Abnormality1(H vs GDM)	NA
H19	Abnormality2 (H vs UH)	NA
H32	NA	NA
H22	Abnormality2(H vs UH)	NA
H07	NA	NA
H23	Abnormality2(H vs UH)	NA
H20	NA	NA
H21	Abnormality1(H vs GDM)	NA
O11	NA	NA
O32	NA	
O10	NA	NA
O08	NA	NA
O03	NA	NA
O04	NA	NA
O06	NA	NA
O05	NA	NA

Sample_ID	cw14 metabolic pathway	OGTT (fasting and postprandial blood glucose levels at 60 and 120 minutes after a 24-hour fast, in mmol/L)
O09	NA	NA
O12	NA	NA
O13	NA	NA
O14	NA	NA
O31	NA	
O15	NA	NA
O17	NA	NA
O16	NA	NA
O18	Abnormality2 (H vs UH)	NA
O19	NA	NA
O21	Abnormality2(H vs UH)	NA
O20	NA	NA
O22	NA	NA
O30	NA	5.58-6.89-6.44
O26	NA	NA
O23	NA	NA
O24	NA	NA
O25	NA	NA
O27	NA	NA
O29	NA	NA
O28	NA	NA
H01	NA	NA
H02	NA	NA
H03	NA	NA
H04	NA	NA

Sample_ID	cw14 metabolic pathway	OGTT (fasting and postprandial blood glucose levels at 60 and 120 minutes after a 24-hour fast, in mmol/L)
H06	NA	NA
H08	NA	NA
H09	NA	NA
H10	NA	NA
H11	NA	NA
H12	NA	NA
H14	NA	NA
H15	NA	NA
H17	NA	NA
H25	NA	NA
H26	NA	NA
H27	NA	NA
H30	NA	NA
H31	NA	NA
H33	NA	NA
H34	NA	NA
H35	NA	NA
H40	NA	NA
H42	NA	NA
H43	NA	NA
H44	NA	NA

Supplementary Table 2 The number of reads and bases in the cleane data of vaginal metagenomes

Sample name	Number of reads	Number of bases
G1	625728	93834433
G10	827890	124183414
G11	58824	8823597
G12	302638	45395690
G13	358596	53789388
G14	46022	6903282
G15	532406	79860884
G16	507280	76091985
G17	886212	132931768
G18	695842	104376237
G19	887706	133155817
G2	606544	90955607
G20	216734	32510073
G21	542218	81332467
G4	132928	19935034
G5	161974	24290104
G6	59996	8997245
G7	97624	14640884
G8	830632	124564965
G9	238374	35746933
H1	283088	42454478
H10	1824926	273690317
H11	375876	56370724
H12	477920	71675194
H13	343598	51529859
H14	159378	23901332
H15	507512	76110891
H16	171890	25776860
H17	1729348	259370074
H18	604250	90626590
H19	2408614	361249367
H2	199634	29939212
H20	591974	88783467
H21	2062618	309323901
H22	811612	121711936
H23	946674	141966484
H25	924018	138602669
H26	712020	106802961
H27	795792	119368738
H28	1575418	236312684
H29	195596	29339373
H3	804336	120630275

Sample name	Number of reads	Number of bases
H30	730828	109624159
H31	294300	44144992
H32	67514	10127084
H33	252854	37928064
H34	839000	125850000
H35	711174	106676100
H36	878614	131792052
H37	561914	84287084
H38	121366	18204896
H39	2548396	382259316
H4	837612	125618218
H40	68816	10322393
H41	159060	23858925
H42	393214	58982053
H43	407950	61192489
H44	216206	32430880
H5	130668	19596385
H6	1204112	180583197
H7	731812	109750150
H8	943958	141568565
H9	267356	40094405
O10	1227894	184184033
O11	1923240	288485913
O12	238356	35753383
O13	853466	128019884
O14	195554	29333052
O15	458930	68839500
O16	1218482	182772282
O17	61738	9260684
O18	550962	82644284
O19	964142	144621250
O1	275768	41365167
O20	155982	23397300
O21	1356778	203516666
O22	2594960	389243966
O23	66242	9936281
O24	123736	18560380
O25	746804	112020501
O26	3296674	494500828
O27	56156	8423400
O28	6562416	984362247
O29	712718	106907682
O2	288646	43296882
O30	196650	29497464

Sample name	Number of reads	Number of bases
O31	589832	88474782
O32	264758	39713657
O3	1464234	219635099
O4	267234	40085100
O5	85610	12841500
O6	382730	57409500
O7	197042	29556300
O8	182034	27305082
O9	726722	109008252

Supplementary Table 3 The dominant specie in each sample

Sample id	Species	Group
O7	<i>Gardnerella vaginalis</i>	healthy
H18	<i>Lactobacillus crispatus</i>	healthy
H16	<i>Lactobacillus crispatus</i>	healthy
H29	<i>Gardnerella vaginalis</i>	healthy
H13	<i>Lactobacillus iners</i>	healthy
H5	<i>Lactobacillus iners</i>	healthy
H28	<i>Gardnerella vaginalis</i>	disease
O1	<i>Lactobacillus crispatus</i>	healthy
O2	<i>Lactobacillus crispatus</i>	healthy
G17	<i>Lactobacillus crispatus</i>	disease
G18	<i>Lactobacillus iners</i>	disease
G20	<i>Bifidobacterium breve</i>	disease
G7	<i>Lactobacillus crispatus</i>	disease
G12	<i>Lactobacillus iners</i>	disease
G2	<i>Lactobacillus crispatus</i>	disease
G15	<i>Lactobacillus crispatus</i>	disease
G1	<i>Lactobacillus crispatus</i>	disease
G8	<i>Lactobacillus jensenii</i>	disease
G16	<i>Lactobacillus iners</i>	disease
G14	<i>Lactobacillus crispatus</i>	disease
G10	<i>Klebsiella quasipneumoniae</i>	disease
G4	<i>Lactobacillus crispatus</i>	disease
G6	<i>Lactobacillus crispatus</i>	disease
G9	<i>Lactobacillus crispatus</i>	disease
G21	<i>Lactobacillus iners</i>	disease
G19	<i>Lactobacillus crispatus</i>	disease
G13	<i>Lactobacillus crispatus</i>	disease
G11	<i>Lactobacillus johnsonii</i>	disease
G5	<i>Lactobacillus iners</i>	disease
H37	<i>Atopobium vaginae</i>	disease
H38	<i>Lactobacillus iners</i>	healthy
H36	<i>Lactobacillus gasseri</i>	disease
H41	<i>Lactobacillus iners</i>	disease
H39	<i>Gardnerella vaginalis</i>	disease
H19	<i>Bifidobacterium dentium</i>	disease
H32	<i>Gardnerella vaginalis</i>	disease
H22	<i>Lactobacillus iners</i>	disease
H7	<i>Lactobacillus crispatus</i>	disease
H23	<i>Lactobacillus delbrueckii</i>	disease
H20	<i>Lactobacillus iners</i>	disease
H21	<i>Lactobacillus iners</i>	disease
O11	<i>Gardnerella vaginalis</i>	disease

Sample id	Species	Group
O32	<i>Lactobacillus iners</i>	disease
O10	<i>Lactobacillus crispatus</i>	disease
O8	<i>Lactobacillus iners</i>	disease
O3	<i>Bifidobacterium breve</i>	disease
O4	<i>Atopobium vaginae</i>	disease
O6	<i>Lactobacillus iners</i>	disease
O5	<i>Lactobacillus iners</i>	disease
O9	<i>Atopobium vaginae</i>	disease
O12	<i>Gardnerella vaginalis</i>	disease
O13	<i>Lactobacillus iners</i>	disease
O14	<i>Lactobacillus paragasseri</i>	disease
O31	<i>Atopobium vaginae</i>	disease
O15	<i>Lactobacillus crispatus</i>	disease
O17	<i>Gardnerella vaginalis</i>	disease
O16	<i>Lactobacillus crispatus</i>	disease
O18	<i>Lactobacillus iners</i>	disease
O19	<i>Lactobacillus iners</i>	disease
O21	<i>Gardnerella vaginalis</i>	disease
O20	<i>Gardnerella vaginalis</i>	disease
O22	<i>Lactobacillus crispatus</i>	disease
O30	<i>Lactobacillus crispatus</i>	disease
O26	<i>Lactobacillus iners</i>	disease
O23	<i>Lactobacillus iners</i>	disease
O24	<i>Gardnerella vaginalis</i>	disease
O25	<i>Lactobacillus crispatus</i>	disease
O27	<i>Lactobacillus crispatus</i>	disease
O29	<i>Lactobacillus iners</i>	disease
O28	<i>Lactobacillus crispatus</i>	disease
H1	<i>Lactobacillus jensenii</i>	healthy
H2	<i>Lactobacillus crispatus</i>	healthy
H3	<i>Lactobacillus crispatus</i>	healthy
H4	<i>Gardnerella vaginalis</i>	healthy
H6	<i>Lactobacillus crispatus</i>	healthy
H8	<i>Lactobacillus iners</i>	healthy
H9	<i>Lactobacillus iners</i>	healthy
H10	<i>Lactobacillus iners</i>	healthy
H11	<i>Lactobacillus iners</i>	healthy
H12	<i>Lactobacillus crispatus</i>	healthy
H14	<i>Lactobacillus crispatus</i>	healthy
H15	<i>Lactobacillus iners</i>	healthy
H17	<i>Lactobacillus crispatus</i>	healthy
H25	<i>Lactobacillus iners</i>	healthy
H26	<i>Lactobacillus crispatus</i>	healthy
H27	<i>Lactobacillus iners</i>	healthy

Sample id	Species	Group
H30	<i>Lactobacillus iners</i>	healthy
H31	<i>Lactobacillus iners</i>	healthy
H33	<i>Lactobacillus iners</i>	healthy
H34	<i>Lactobacillus iners</i>	healthy
H35	<i>Lactobacillus iners</i>	healthy
H40	<i>Lactobacillus iners</i>	healthy
H42	<i>Lactobacillus crispatus</i>	healthy
H43	<i>Lactobacillus iners</i>	healthy
H44	<i>Lactobacillus crispatus</i>	healthy

Supplementary Table 4 The relative abundance of species in 95 samples

ID	O7	H18	H16	H29	H13	H5	H28	O1	O2	G17	G18	G20	G7	G12	G2	G15	G1	G8	G16	G14	G10	G4	G6	G9
<i>Lactobacillus iners</i>	0.0	3.6	0.0	3.2	53.9	93.3	0.0	0.0	0.0	0.7	100.0	0.0	0.0	85.7	0.0	0.0	0.0	0.0	85.6	0.0	0.0	3.5	0.0	0.0
<i>Lactobacillus crispatus</i>	0.0	96.2	81.2	30.0	0.0	0.0	0.0	49.8	100.0	96.3	0.0	0.0	100.0	13.6	93.6	100.0	98.9	0.0	14.4	100.0	0.0	96.0	100.0	99.6
<i>Gardnerella vaginalis</i>	56.1	0.0	0.0	55.7	46.1	0.0	49.9	48.9	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus paragasseri</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ID	G21	G19	G13	G11	G5	H37	H38	H36	H41	H39	H19	H32	H22	H7	H23	H20	H21	O11	O32	O10	O8	O3
<i>Lactobacillus iners</i>	100.0	0.0	0.0	0.0	99.8	0.0	100.0	43.5	83.2	0.0	0.0	0.0	100.0	0.0	0.0	100.0	94.0	0.0	99.5	0.0	100.0	0.0
<i>Lactobacillus crispatus</i>	0.0	100.0	81.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	91.4	0.0	0.0
<i>Gardnerella vaginalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	76.5	0.0	59.4	0.0	0.0	0.0	0.0	3.8	69.4	0.0	0.0	0.0	0.0
<i>Lactobacillus paragasseri</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ID	O4	O6	O5	O9	O12	O13	O14	O31	O15	O17	O16	O18	O19	O21
<i>Lactobacillus iners</i>	0.0	44.4	100.0	0.0	10.8	95.6	0.0	0.0	0.0	10.8	0.0	67.7	100.0	0.0
<i>Lactobacillus crispatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.9	0.0	100.0	30.5	0.0	0.0
<i>Gardnerella vaginalis</i>	17.3	30.7	0.0	20.0	48.2	0.0	0.0	0.0	0.0	48.2	0.0	0.0	0.0	61.2
<i>Lactobacillus paragasseri</i>	0.0	0.0	0.0	0.0	0.0	0.0	61.9	0.2	0.0	0.0	0.0	0.0	0.0	0.3
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ID	O20	O22	O30	O26	O23	O24	O25	O27	O29	O28	H1	H2
<i>Lactobacillus iners</i>	0.0	0.0	0.0	92.1	99.9	0.0	0.6	0.0	75.3	1.1	0.0	0.4
<i>Lactobacillus crispatus</i>	0.0	100.0	100.0	0.0	0.0	0.0	99.4	100.0	22.3	98.9	0.0	97.4
<i>Gardnerella vaginalis</i>	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus paragasseri</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ID	H3	H4	H6	H8	H9	H10	H11	H12	H14	H15	H17	H25
<i>Lactobacillus iners</i>	0.0	0.0	2.5	99.7	100.0	39.0	100.0	11.2	0.2	94.2	0.0	78.7
<i>Lactobacillus crispatus</i>	90.4	0.0	96.5	0.0	0.0	0.0	0.0	87.9	98.5	0.0	97.1	21.2
<i>Gardnerella vaginalis</i>	0.0	80.5	0.0	0.2	0.0	36.4	0.0	0.0	0.0	0.0	0.0	0.1
<i>Lactobacillus paragasseri</i>	0.0	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ID	H26	H27	H30	H31	H33	H34	H35	H40	H42	H43	H44
<i>Lactobacillus iners</i>	0.0	100.0	96.7	98.9	98.6	100.0	100.0	80.4	0.0	100.0	0.0
<i>Lactobacillus crispatus</i>	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	97.7
<i>Gardnerella vaginalis</i>	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus paragasseri</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus anginosugroup</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus pasteurianus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus agalactiae</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Veillonella montpellierensis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Ureaplasma urealyticum</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella corporis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella colorans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus tetradius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella disiens</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Dermabacter hominis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus hydrogenalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Prevotella amnii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Akkermansia muciniphila</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Streptococcus gallolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptostreptococcus anaerobius</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Peptoniphilus harei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Lactobacillus amylovorus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Corynebacterium simulans</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anaerococcus lactolyticus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Supplementary Table 5 The relative abundance of pathways in 95 samples

Pathway	G1	G10	G11	G12	G13	G14	G15
UNMAPPED	46279.77	50459.18	11781.64	18671.96	34264.01	13307.89	27860.41
UNINTEGRATED	147191.45	288946.53	8225.12	68830.15	105950.53	5783.76	123611.02
1CMET2-PWY	0.00	0.00	0.00	0.00	79.53	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	72.63	0.00	0.00	0.00	96.33	0.00	95.31
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	52.17	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	51.06	0.00	0.00
ARO-PWY	77.24	0.00	0.00	0.00	0.00	0.00	0.00
ASPASN-PWY	23.26	0.00	0.00	0.00	70.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	73.32	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	90.80	279.39	0.00	81.17	82.28	0.00	298.97
COA-PWY-1	279.43	338.35	0.00	81.17	82.28	0.00	298.97
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	77.58	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	105.90	0.00	7.17	0.00	119.19	0.00	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	197.98	0.00	0.00	0.00	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	43.41	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	104.63	0.00	0.00
GLYCOGENSYNTH-PWY	137.94	0.00	0.00	0.00	65.15	0.00	0.00
GLYCOLYSIS	0.00	0.00	0.00	0.00	0.00	0.00	135.45
GLYCOLYSIS-TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	44.48	0.00	0.00

Pathway	G1	G10	G11	G12	G13	G14	G15
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	27.40	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	74.35	0.00	0.00
LACTOSECAT-PWY	15.84	0.00	0.00	207.07	88.42	0.00	301.84
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	71.68	0.00	0.00	0.00	63.71	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OANTIGEN-PWY	136.15	0.00	0.00	0.00	111.90	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	280.77	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	82.34	0.00	0.00	0.00	0.00	25.10
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	61.99	0.00	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYCAN SYN-PWY	208.68	231.08	0.00	202.32	137.06	0.00	144.76
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	10.53	0.00	0.00	0.00	81.39	0.00	65.68
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	103.92	6.98	0.00	0.00	0.00	40.17
PWY-2942	0.00	98.97	8.24	0.00	87.95	0.00	39.75
PWY-3001	0.00	0.00	0.00	0.00	87.00	0.00	0.00
PWY-3841	0.00	254.64	0.00	0.00	111.41	0.00	134.95
PWY-4041	0.00	0.00	0.00	0.00	61.76	0.00	0.00
PWY-4242	92.12	293.24	0.00	0.00	67.61	0.00	111.74
PWY-4981	79.78	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	106.89	7.65	0.00	82.11	0.00	41.08
PWY-5100	199.29	360.94	0.00	256.47	143.38	0.00	411.55
PWY-5103	0.00	0.00	0.00	0.00	70.08	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G1	G10	G11	G12	G13	G14	G15
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	137.06	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	0.00	128.39	0.00	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	12.41	0.00	0.00	208.01	0.00	0.00	256.85
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	247.61	260.69	6.87	272.51	101.90	0.00	387.48
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	177.14	0.00	0.00	0.00	38.16	0.00	0.00
PWY-6122	326.54	0.00	0.00	0.00	39.42	0.00	0.00
PWY-6123	298.29	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6124	298.44	0.00	0.00	0.00	32.52	0.00	0.00
PWY-6125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6126	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6147	0.00	0.00	0.00	211.02	0.00	0.00	250.48
PWY-6151	404.91	276.61	8.52	0.00	103.42	8.07	102.72
PWY-6163	62.33	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	30.58
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	23.03	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	326.54	0.00	0.00	0.00	39.42	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	18.24	0.00	0.00	0.00	56.65	0.00	85.15
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	189.81	0.00	0.00	0.00	84.80	0.00	0.00
PWY-6386	233.24	240.85	0.00	215.50	140.70	0.00	146.49

Pathway	G1	G10	G11	G12	G13	G14	G15
PWY-6387	190.75	230.85	0.00	211.79	136.24	0.00	129.10
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	106.83	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	10.82	197.43	0.00	0.00	78.52	0.00	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	168.03	0.00	0.00	0.00	107.03	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	24.41	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	87.53	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	45.31	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7208	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	391.01	369.54	12.28	244.28	161.97	0.00	382.27
PWY-7220	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7221	288.54	271.32	7.15	0.00	65.00	0.00	105.85
PWY-7222	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7228	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7229	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7234	268.67	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	0.00	126.25	0.00	0.00	84.85	0.00	42.63
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	24.51	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G1	G10	G11	G12	G13	G14	G15
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	42.85	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	52.20	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	0.00	142.58
PWY-7560	21.21	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	16.75	0.00	0.00	167.88	0.00	0.00	253.95
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	12.41	0.00	0.00	208.01	0.00	0.00	256.85
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	50.49	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00	29.13
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00	29.13
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	18.24	0.00	0.00	0.00	40.86	0.00	82.75
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	60.42	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	151.85	0.00	0.00	0.00	0.00	81.58
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	11.42	0.00	0.00	0.00	67.31	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	25.50	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	67.09	150.60	0.00	0.00	99.45	0.00	48.10
TRNA-CHARGING-PWY	70.68	266.26	0.00	223.65	111.48	0.00	322.81

Pathway	G1	G10	G11	G12	G13	G14	G15
TRPSYN-PWY	0.00	0.00	0.00	0.00	39.75	0.00	0.00
UDPNAGSYN-PWY	212.19	252.09	0.00	226.95	122.27	0.00	333.05
VALSYN-PWY	0.00	0.00	0.00	0.00	74.35	0.00	0.00

Pathway	G16	G17	G18	G19	G2	G20	G21
UNMAPPED	48679.07	47737.04	49267.91	139576.92	40936.77	13634.96	54843.41
UNINTEGRATED	128932.27	286629.47	206283.39	160751.59	192788.16	46024.03	136704.53
1CMET2-PWY	86.55	0.00	0.00	0.00	0.00	0.00	17.01
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	0.00	0.00	0.00	263.12	53.33	65.94	0.00
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	36.07	0.00	0.00	0.00
ASPASN-PWY	0.00	0.00	7.26	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	159.32	355.05	206.24	169.30	230.77	122.94	136.15
COA-PWY-1	215.65	515.12	233.01	315.27	256.79	122.94	157.88
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	138.14	0.00	0.00	0.00	0.00	0.00	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	377.27	0.00	0.00	0.00	29.20	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOLYSIS	0.00	0.00	0.00	255.77	54.01	68.64	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G16	G17	G18	G19	G2	G20	G21
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	12.14	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	0.00	0.00	0.00	0.00	17.45	129.90	0.00
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	137.30	0.00	0.00	0.00	0.00	0.00	0.00
OANTIGEN-PWY	124.58	0.00	0.00	0.00	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	116.61	108.03	90.06	0.00	62.48	0.00	42.90
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	213.92	275.84	231.94	202.08	190.32	29.54	132.19
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	0.00	0.00	0.00	198.50	21.76	53.08	0.00
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	115.54	0.00	198.16	0.00	191.91	0.00	121.10
PWY-2942	121.00	0.00	196.91	0.00	199.79	0.00	131.06
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	157.84	310.94	220.16	0.00	177.58	51.80	134.19
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	157.71	374.00	208.94	169.24	230.01	62.26	141.52
PWY-4981	105.97	0.00	18.24	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	121.40	0.00	196.48	0.00	196.69	0.00	122.63
PWY-5100	268.66	445.36	340.32	165.68	239.65	141.47	187.14
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G16	G17	G18	G19	G2	G20	G21
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	197.91	0.00	0.00	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	0.00	0.00	0.00	0.00	16.43	88.76	0.00
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	150.90	342.26	271.16	0.00	242.63	146.61	151.71
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	13.11	0.00	0.00	0.00	0.00
PWY-6122	72.76	0.00	12.50	92.48	0.00	0.00	0.00
PWY-6123	79.92	0.00	12.79	74.15	0.00	0.00	0.00
PWY-6124	75.30	0.00	12.99	68.13	0.00	0.00	0.00
PWY-6125	0.00	0.00	0.00	115.78	0.00	0.00	0.00
PWY-6126	0.00	0.00	0.00	209.97	0.00	0.00	0.00
PWY-6147	0.00	0.00	0.00	0.00	0.00	67.15	0.00
PWY-6151	225.52	349.08	298.96	162.76	229.01	40.68	224.18
PWY-6163	0.00	0.00	0.00	28.23	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	205.09	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	72.76	0.00	12.50	92.48	0.00	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	0.00	242.65	17.78	30.92	0.00
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6386	222.31	278.99	240.84	284.85	196.90	29.31	141.37

Pathway	G16	G17	G18	G19	G2	G20	G21
PWY-6387	215.55	268.02	233.93	266.17	191.41	25.26	134.86
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	129.04	327.28	0.00	0.00	0.00	19.41	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	17.77	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	151.26	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	120.52	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	184.63	0.00	0.00	0.00
PWY-7208	0.00	0.00	0.00	195.63	0.00	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	260.70	462.40	356.12	411.70	308.30	154.82	211.39
PWY-7220	0.00	0.00	0.00	140.82	0.00	0.00	0.00
PWY-7221	192.99	360.72	247.61	185.57	236.97	42.29	164.34
PWY-7222	0.00	0.00	0.00	140.82	0.00	0.00	0.00
PWY-7228	0.00	0.00	0.00	169.97	0.00	0.00	0.00
PWY-7229	0.00	0.00	0.00	232.73	0.00	0.00	0.00
PWY-7234	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7237	4.88	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	130.83	0.00	182.83	0.00	186.57	0.00	121.66
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G16	G17	G18	G19	G2	G20	G21
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	15.66	0.00
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	0.00	0.00	0.00	0.00	80.83	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	0.00	0.00	0.00	16.43	88.76	0.00
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	26.03	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	80.49	0.00	193.19	208.57	239.77	0.00	120.88
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	87.71	0.00	0.00	0.00
THRESYN-PWY	161.08	0.00	181.22	0.00	187.64	0.00	125.82
TRNA-CHARGING-PWY	165.46	325.59	233.92	228.42	215.08	123.75	156.35

Pathway	G16	G17	G18	G19	G2	G20	G21
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	177.89	308.97	248.84	235.51	170.54	127.35	131.09
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
UNMAPPED	19998.14	23294.20	0.00	11077.97	61568.94	19441.45	23106.25	67362.34
UNINTEGRATED	30312.59	30366.51	0.00	12880.85	191712.23	51188.53	83255.92	274057.32
1CMET2-PWY	0.00	0.00	0.00	0.00	230.50	50.59	0.00	170.24
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	16.99	35.09	0.00	0.00	192.26	26.98	0.00	40.27
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ASPASN-PWY	0.00	0.00	0.00	0.00	101.66	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	17.03	21.92	0.00	29.75	236.37	47.89	84.24	146.80
COA-PWY-1	25.31	43.69	0.00	20.18	443.50	82.18	96.14	554.27
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	20.40	0.00	0.00	0.00	163.71	56.46	0.00	210.33
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	99.14	0.00	0.00	0.00
GLYCOLYSIS	17.90	0.00	0.00	0.00	0.00	26.41	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	0.00	0.00	0.00	42.12	193.71	0.00	0.00	158.84
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	7.57	0.00	0.00	0.00	10.93
OANTIGEN-PWY	0.00	0.00	0.00	0.00	201.81	50.19	0.00	196.49
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	44.27	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	41.94	17.17	0.00	0.00	0.00	0.00	31.18	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	28.32	26.59	0.00	25.35	232.18	49.37	87.14	236.47
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	14.52	0.00	0.00	0.00	121.04	11.45	0.00	24.12
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	21.27	0.00	0.00	0.00	67.54	30.37	84.44	0.00
PWY-2942	21.60	0.00	0.00	0.00	65.04	32.08	85.73	0.00
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	27.20	23.09	0.00	0.00	238.93	56.16	82.08	143.87
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	18.01	23.03	0.00	0.00	238.03	48.81	86.15	149.09
PWY-4981	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	21.33	0.00	0.00	0.00	64.57	28.68	86.46	0.00
PWY-5100	49.68	27.53	0.00	42.12	198.04	53.62	125.90	151.76
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5484	13.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	0.00	0.00	0.00	27.62	0.00	0.00	0.00	0.00
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	20.36	18.04	0.00	41.41	304.63	89.35	103.40	975.98
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	0.00	0.00	92.59	0.00	0.00	0.00
PWY-6122	0.00	26.70	0.00	0.00	99.65	0.00	0.00	0.00
PWY-6123	0.00	37.20	0.00	0.00	146.09	0.00	0.00	13.36
PWY-6124	0.00	37.27	0.00	0.00	119.57	0.00	0.00	7.49
PWY-6125	15.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6126	24.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6147	0.00	0.00	0.00	22.68	0.00	0.00	0.00	0.00
PWY-6151	30.32	34.72	0.00	0.00	306.44	68.45	114.81	234.41
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	0.00	26.70	0.00	0.00	99.65	0.00	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	18.46	0.00	0.00	0.00	166.21	0.00	0.00	126.21
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	25.60	0.00	0.00	0.00	0.00	0.00	33.10
PWY-6386	29.80	27.21	0.00	29.35	252.64	54.65	90.13	241.99

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
PWY-6387	27.46	26.20	0.00	27.34	223.45	47.05	86.44	207.28
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	14.31	0.00	0.00	211.05	34.70	0.00	154.39
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	102.43	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	74.36	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	17.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	12.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7198	17.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	13.73	0.00	0.00	0.00	0.00
PWY-7208	16.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7210	19.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	53.41	67.86	0.00	47.48	490.57	114.35	126.48	1262.78
PWY-7220	14.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7221	19.80	42.64	0.00	0.00	299.80	116.18	90.95	798.87
PWY-7222	14.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7228	17.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7229	31.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7234	0.00	34.65	0.00	0.00	146.09	0.00	0.00	13.36
PWY-7237	0.00	0.00	0.00	0.00	297.56	103.66	0.00	1241.47
PWY-724	21.61	0.00	0.00	0.00	73.36	32.26	75.54	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	17.35	0.00	0.00	203.09	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	0.00	0.00	19.01	0.00	0.00	0.00	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	0.00	0.00	27.62	0.00	0.00	0.00	0.00
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.16
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	24.96	6.43	0.00	0.00	0.00	30.82	83.08	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	11.48	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	22.85	22.46	0.00	0.00	133.99	56.12	71.97	0.00
TRNA-CHARGING-PWY	28.87	0.00	0.00	35.51	321.27	68.46	88.14	358.47

Pathway	G4	G5	G6	G7	G8	G9	H1	H10
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	26.61	28.06	0.00	46.73	324.36	73.38	90.93	274.83
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H11	H12	H13	H14	H15	H16	H17
UNMAPPED	25160.41	33917.39	21413.40	20229.18	30938.18	31091.19	90058.35
UNINTEGRATED	109011.14	120356.16	75448.99	22674.45	130302.70	86216.87	597975.02
1CMET2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	38.47	0.00
ANAGLYCOLYSIS-PWY	35.29	0.00	0.00	31.86	0.00	43.64	0.00
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ASPAASN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	17.51	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	47.16	0.00
COA-PWY	126.11	189.43	127.71	15.15	374.74	91.87	624.77
COA-PWY-1	141.16	201.33	127.71	19.50	345.42	125.37	999.85
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	37.68	0.00
DTDPRHAMSYN-PWY	0.00	0.00	0.00	11.84	0.00	13.57	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	27.60	0.00	0.00	0.00	0.00	111.31	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	15.94	0.00	0.00	0.00	0.00	60.63	699.66
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	28.35	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOLYSIS	36.18	0.00	0.00	0.00	0.00	47.06	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H11	H12	H13	H14	H15	H16	H17
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	18.34	0.00
LACTOSECAT-PWY	0.00	143.94	259.01	22.21	0.00	0.00	0.00
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	16.93	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	9.33	0.00	58.45	0.00
OANTIGEN-PWY	0.00	0.00	0.00	17.39	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	45.59	0.00	0.00	0.00	0.00	27.57	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	10.04	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	119.74	291.70	174.40	0.00	356.74	80.87	539.59
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	14.73	0.00	0.00	19.46	0.00	41.58	116.48
PWY-1269	0.00	0.00	0.00	0.00	0.00	15.96	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	88.60	0.00	0.00	0.00	0.00	58.33	583.42
PWY-2942	84.79	0.00	0.00	0.00	0.00	57.82	595.91
PWY-3001	0.00	0.00	0.00	0.00	0.00	26.34	0.00
PWY-3841	95.79	0.00	0.00	0.00	0.00	55.43	592.47
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	132.94	174.56	0.00	15.66	0.00	93.54	652.45
PWY-4981	0.00	0.00	0.00	0.00	0.00	23.86	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	88.34	0.00	0.00	0.00	0.00	60.49	590.24
PWY-5100	173.48	302.99	251.92	41.59	473.41	106.55	872.59
PWY-5103	0.00	0.00	0.00	0.00	0.00	15.98	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H11	H12	H13	H14	H15	H16	H17
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	25.81	0.00
PWY-5384	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	36.60	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	0.00	165.89	179.80	18.91	365.89	25.37	0.00
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	135.02	278.93	286.74	35.59	461.38	87.51	658.36
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	30.63	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	22.74	0.00
PWY-6121	0.00	0.00	0.00	0.00	0.00	21.97	0.00
PWY-6122	0.00	122.37	0.00	12.44	0.00	24.43	0.00
PWY-6123	0.00	128.94	0.00	20.43	0.00	0.00	0.00
PWY-6124	0.00	134.19	0.00	18.86	0.00	0.00	0.00
PWY-6125	0.00	0.00	0.00	10.31	0.00	0.00	0.00
PWY-6126	0.00	0.00	0.00	14.35	0.00	0.00	0.00
PWY-6147	0.00	109.85	209.19	0.00	348.09	7.02	0.00
PWY-6151	155.11	173.87	0.00	26.07	0.00	73.85	746.69
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	0.00	122.37	0.00	12.44	0.00	24.43	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	0.00	0.00	0.00	57.49	0.00
PWY-6386	124.12	322.84	178.44	18.96	383.23	77.94	545.84

Pathway	H11	H12	H13	H14	H15	H16	H17
PWY-6387	119.31	289.17	165.89	0.00	361.14	78.10	526.78
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	0.00	0.00	0.00	0.00	67.29	609.80
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	23.26
PWY-6700	0.00	0.00	0.00	0.00	0.00	19.42	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	8.10	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	160.29	0.00	27.26	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	16.46	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	6.38	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	8.66	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	0.00	0.00	15.97
PWY-7208	0.00	0.00	0.00	9.09	0.00	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	159.51	323.43	270.87	61.75	421.79	106.51	985.72
PWY-7220	0.00	0.00	0.00	7.13	0.00	0.00	0.00
PWY-7221	119.62	158.90	0.00	51.74	0.00	97.37	690.49
PWY-7222	0.00	0.00	0.00	7.13	0.00	0.00	0.00
PWY-7228	0.00	0.00	0.00	12.64	0.00	0.00	0.00
PWY-7229	0.00	0.00	0.00	21.15	0.00	0.00	0.00
PWY-7234	0.00	0.00	0.00	20.43	0.00	0.00	0.00
PWY-7237	0.00	0.00	0.00	14.63	0.00	0.00	0.00
PWY-724	89.58	0.00	0.00	0.00	0.00	64.08	573.14
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	19.03	0.00

Pathway	H11	H12	H13	H14	H15	H16	H17
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	13.96	0.00
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	23.16	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	168.09	202.80	0.00	258.45	0.00	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	165.89	179.80	18.91	365.89	25.37	0.00
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	11.94	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	14.26	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	24.73	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	24.73	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	112.88	0.00	0.00	0.00	0.00	35.10	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	61.25
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	80.22	0.00	0.00	0.00	0.00	70.61	587.95
TRNA-CHARGING-PWY	115.37	238.72	246.47	32.53	400.33	77.99	643.54

Pathway	H11	H12	H13	H14	H15	H16	H17
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	125.00	273.82	251.91	29.19	409.94	79.49	659.05
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	18.34	0.00

Pathway	H18	H19	H2	H20	H21	H22	H23
UNMAPPED	31666.67	150572.08	16188.14	37774.44	105256.85	57898.58	68471.94
UNINTEGRATED	139991.23	818536.58	60550.14	190126.68	530901.13	259855.83	299844.37
1CMET2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	109.47	0.00	0.00	0.00	0.00	0.00	232.05
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	33.36
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ASPASN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	12.41
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	387.90	770.62	47.34	210.48	704.18	232.71	346.75
COA-PWY-1	363.89	927.21	71.19	317.29	704.18	265.34	389.70
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	0.00	771.63	0.00	0.00	0.00	0.00	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	107.78	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	44.25	220.95	0.00	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOLYSIS	128.25	0.00	0.00	0.00	0.00	0.00	231.09
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H18	H19	H2	H20	H21	H22	H23
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	448.69	0.00	0.00	0.00	1636.14	0.00	17.18
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	29.58
OANTIGEN-PWY	0.00	744.79	0.00	0.00	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	39.38	774.60	18.92	74.42	0.00	89.51	184.04
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	391.61	761.55	51.09	190.60	1424.26	254.81	333.18
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	79.90	0.00	0.00	0.00	0.00	0.00	210.89
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	779.01	53.44	189.80	0.00	244.78	216.42
PWY-2942	0.00	790.73	50.84	187.66	0.00	246.00	221.03
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	88.73	764.15	33.17	191.23	0.00	253.75	274.36
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	65.76	786.41	49.95	220.60	0.00	246.38	351.35
PWY-4981	0.00	0.00	0.00	9.03	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	792.55	53.01	187.72	0.00	248.12	217.72
PWY-5100	517.73	1102.01	45.36	258.45	1910.65	393.99	430.51
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H18	H19	H2	H20	H21	H22	H23
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	33.72	0.00	0.00	0.00	0.00	0.00	121.98
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	137.70
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	367.41	0.00	0.00	0.00	1419.37	0.00	0.00
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	474.79	853.39	52.09	220.31	1953.63	281.81	276.81
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6122	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6123	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6124	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6125	0.00	0.00	0.00	0.00	0.00	0.00	132.60
PWY-6126	144.88	0.00	0.00	0.00	0.00	0.00	182.17
PWY-6147	305.42	0.00	0.00	0.00	1325.46	0.00	0.00
PWY-6151	0.00	1031.76	64.73	292.12	0.00	285.13	383.51
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	31.03	0.00	0.00	0.00	0.00	0.00	228.62
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	63.30	0.00	0.00	0.00	0.00	0.00	230.38
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6386	400.03	783.85	53.02	193.42	1549.64	259.33	339.19

Pathway	H18	H19	H2	H20	H21	H22	H23
PWY-6387	397.94	758.70	50.33	184.92	1473.97	246.86	335.18
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	11.77	0.00	0.00	0.00	0.00	247.73
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	18.57
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	5.12
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	131.39
PWY-7197	64.93	0.00	0.00	0.00	0.00	0.00	85.30
PWY-7198	0.00	0.00	0.00	0.00	0.00	0.00	131.72
PWY-7199	35.09	0.00	0.00	0.00	0.00	0.00	178.72
PWY-7208	92.13	0.00	0.00	0.00	0.00	0.00	120.91
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	148.51
PWY-7219	530.61	1312.99	80.58	326.35	1980.64	365.99	538.70
PWY-7220	73.78	0.00	0.00	0.00	0.00	0.00	99.08
PWY-7221	93.07	892.54	68.35	220.03	0.00	309.72	383.44
PWY-7222	73.78	0.00	0.00	0.00	0.00	0.00	99.08
PWY-7228	94.09	0.00	0.00	0.00	0.00	0.00	158.43
PWY-7229	210.91	0.00	0.00	0.00	0.00	0.00	255.25
PWY-7234	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	0.00	740.58	46.79	172.93	0.00	237.79	214.96
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H18	H19	H2	H20	H21	H22	H23
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	56.51	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	342.31	0.00	0.00	0.00	1233.16	0.00	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	367.41	0.00	0.00	0.00	1419.37	0.00	0.00
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	18.19	0.00	0.00	0.00	12.94	0.00	0.00
PWY4FS-8	18.19	0.00	0.00	0.00	12.94	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	42.84	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	55.36	0.00	41.86	214.35	0.00	261.40	338.84
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	0.00	730.39	44.69	165.50	0.00	230.40	226.74
TRNA-CHARGING-PWY	458.31	893.54	56.51	216.99	1571.80	277.65	367.10

Pathway	H18	H19	H2	H20	H21	H22	H23
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	458.36	912.40	56.94	237.03	1697.41	275.81	351.51
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H25	H26	H27	H28	H29	H3	H30
UNMAPPED	54648.79	35230.37	50783.88	14113.14	13531.59	45269.08	32642.37
UNINTEGRATED	276949.29	176139.60	274840.18	8128.65	42002.66	217409.28	146490.87
1CMET2-PWY	0.00	56.88	0.00	0.00	0.00	28.07	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	60.92	193.66	0.00	0.00	0.00	258.72	0.00
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ASPN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	339.98	158.21	270.09	8.53	93.23	414.24	204.56
COA-PWY-1	408.45	283.97	306.54	16.03	89.33	414.24	204.56
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	276.44	0.00	0.00	0.00	0.00	0.00	21.23
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	146.59	0.00	0.00	0.00	160.29	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOLYSIS	60.92	232.24	0.00	0.00	0.00	274.73	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H25	H26	H27	H28	H29	H3	H30
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	10.50	0.00	12.73	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	0.00	370.66	0.00	0.00	123.35	438.85	590.32
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OANTIGEN-PWY	278.48	0.00	0.00	0.00	0.00	0.00	36.19
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	7.78	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	305.09	27.45	100.99	0.00	0.00	51.83	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOGLYCANSYN-PWY	320.39	318.98	272.18	11.71	94.21	361.01	302.38
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	23.02	140.56	0.00	0.00	0.00	207.75	0.00
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	322.36	0.00	258.87	0.00	0.00	94.30	0.00
PWY-2942	323.79	0.00	249.30	0.00	0.00	93.48	0.00
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	287.87	206.15	275.85	15.36	0.00	265.05	93.29
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	344.83	149.57	288.45	9.14	0.00	327.54	0.00
PWY-4981	12.39	24.64	0.00	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	326.31	0.00	257.96	0.00	0.00	94.71	0.00
PWY-5100	539.80	515.42	428.70	18.89	154.97	527.94	552.04
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H25	H26	H27	H28	H29	H3	H30
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	65.99	0.00	0.00	0.00	0.00	18.79	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	0.00	341.72	0.00	0.00	100.16	333.94	433.60
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	357.00	476.83	308.07	9.07	153.90	570.65	617.92
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6122	0.00	14.85	0.00	14.73	0.00	0.00	0.00
PWY-6123	0.00	7.63	0.00	0.00	0.00	6.84	0.00
PWY-6124	0.00	0.00	0.00	0.00	0.00	6.31	0.00
PWY-6125	30.05	0.00	0.00	0.00	0.00	22.46	0.00
PWY-6126	44.15	0.00	0.00	0.00	0.00	33.82	0.00
PWY-6147	0.00	270.34	0.00	0.00	104.82	271.30	416.50
PWY-6151	385.48	188.09	335.84	0.00	0.00	129.57	67.54
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	0.00	14.85	0.00	14.73	0.00	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	41.68	146.03	0.00	0.00	0.00	174.36	50.12
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6386	336.47	323.83	296.57	16.07	95.44	374.48	317.34

Pathway	H25	H26	H27	H28	H29	H3	H30
PWY-6387	319.19	305.23	282.25	14.01	89.20	351.57	285.19
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	370.08	111.41	0.00	0.00	0.00	132.10	33.49
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	30.66
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	34.09
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	46.29	0.00	0.00	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	29.11	0.00	0.00	0.00	0.00	22.14	0.00
PWY-7197	17.69	0.00	0.00	0.00	0.00	13.33	0.00
PWY-7198	29.94	0.00	0.00	0.00	0.00	22.85	0.00
PWY-7199	14.18	0.00	0.00	0.00	0.00	28.23	0.00
PWY-7208	26.32	0.00	0.00	0.00	0.00	19.81	0.00
PWY-7210	32.57	0.00	0.00	0.00	0.00	24.51	0.00
PWY-7219	503.08	484.86	440.62	26.27	157.32	563.47	662.66
PWY-7220	20.01	0.00	0.00	0.00	0.00	15.04	0.00
PWY-7221	321.71	175.21	297.65	0.00	0.00	176.98	0.00
PWY-7222	20.01	0.00	0.00	0.00	0.00	15.04	0.00
PWY-7228	37.86	0.00	0.00	0.00	0.00	28.25	0.00
PWY-7229	71.39	0.00	0.00	0.00	0.00	55.74	0.00
PWY-7234	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	312.12	0.00	256.38	0.00	0.00	90.70	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H25	H26	H27	H28	H29	H3	H30
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	129.97	0.00	0.00	0.00	137.23	0.00
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	285.08	0.00	0.00	99.48	339.54	440.15
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	341.72	0.00	0.00	100.16	333.94	433.60
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	18.21	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	18.21	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	137.54	0.00	0.00	0.00	156.23	37.81
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	50.04	0.00	276.18	0.00	0.00	39.34	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	140.98	0.00	0.00	0.00	186.22	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	313.06	12.15	270.71	0.00	0.00	90.19	9.04
TRNA-CHARGING-PWY	367.58	432.44	289.80	14.10	126.36	454.97	532.74

Pathway	H25	H26	H27	H28	H29	H3	H30
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	343.90	415.11	276.09	15.66	134.69	443.19	566.75
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H32	H33	H34	H35	H36	H37	H38
UNMAPPED	13886.06	19157.04	46959.41	34912.08	67316.07	31247.32	89129.56
UNINTEGRATED	8340.07	45857.00	208409.35	152243.85	183228.29	125237.87	386696.90
1CMET2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	0.00	21.76	0.00	0.00	43.47	0.00	21.11
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	63.59	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	58.12	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ASPASN-PWY	0.00	0.00	0.00	0.00	63.63	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	107.98	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	9.26	76.71	366.90	303.75	381.09	156.35	704.91
COA-PWY-1	7.27	76.71	366.90	303.75	407.95	156.35	680.78
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	15.19	0.00	0.00
DTDPRHAMSYN-PWY	0.00	0.00	0.00	0.00	426.04	0.00	388.08
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	15.63	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	29.85
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	45.62	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	130.25	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	162.43	0.00	0.00
GLYCOLYSIS	0.00	0.00	0.00	0.00	43.65	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	46.43	0.00	0.00

Pathway	H32	H33	H34	H35	H36	H37	H38
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	103.73	0.00	0.00
LACTOSECAT-PWY	12.17	145.74	677.77	0.00	0.00	451.08	841.74
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	280.74	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.78
OANTIGEN-PWY	0.00	0.00	0.00	0.00	465.99	0.00	471.58
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	477.64	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	12.90	140.76	594.82	0.00	496.86	282.00	659.67
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	21.73	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	0.00	15.15	0.00	0.00	26.98	0.00	0.00
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	15.83	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	0.00	21.70	0.00	0.00
PWY-2942	0.00	0.00	0.00	0.00	73.18	0.00	0.00
PWY-3001	0.00	0.00	0.00	0.00	74.99	0.00	0.00
PWY-3841	0.00	0.00	0.00	0.00	0.00	0.00	603.34
PWY-4041	0.00	0.00	0.00	0.00	57.38	0.00	0.00
PWY-4242	0.00	0.00	0.00	0.00	396.01	0.00	19.00
PWY-4981	0.00	0.00	0.00	0.00	430.81	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	0.00	0.00	0.00	62.80	0.00	0.00
PWY-5100	17.24	166.11	785.80	621.73	165.15	497.59	883.80
PWY-5103	0.00	0.00	0.00	0.00	92.61	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H32	H33	H34	H35	H36	H37	H38
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	0.00	75.40	0.00	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	19.03	134.53	565.14	457.08	20.69	336.82	396.06
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	11.93	175.93	781.02	693.29	207.47	461.12	785.84
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	10.59	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	6.80	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	0.00	0.00	612.17	0.00	0.00
PWY-6122	0.00	0.00	0.00	0.00	647.42	0.00	0.00
PWY-6123	0.00	0.00	0.00	0.00	549.50	0.00	0.00
PWY-6124	0.00	0.00	0.00	0.00	540.79	0.00	0.00
PWY-6125	0.00	0.00	0.00	0.00	17.13	0.00	0.00
PWY-6126	0.00	0.00	0.00	0.00	25.48	0.00	0.00
PWY-6147	11.13	126.78	537.41	427.41	0.00	323.90	298.35
PWY-6151	0.00	0.00	0.00	0.00	506.81	0.00	636.14
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	97.58	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	40.42	0.00	0.00
PWY-6277	0.00	0.00	0.00	0.00	647.42	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	15.20	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	0.00	0.00	0.00	0.00	405.70
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	19.66	0.00	0.00	183.79	0.00	0.00
PWY-6386	14.33	156.59	629.97	0.00	514.30	296.19	736.77

Pathway	H32	H33	H34	H35	H36	H37	H38
PWY-6387	13.89	152.86	613.74	0.00	510.31	274.89	728.90
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	0.00	0.00	0.00	0.00	0.00	486.07
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	390.29
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	400.72
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	7.13	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	19.02	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	0.00	0.00	0.00	671.39	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	11.70	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	85.07	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	31.61	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	0.00	9.90	0.00	0.00
PWY-7198	0.00	0.00	0.00	0.00	16.76	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7208	0.00	0.00	0.00	0.00	14.76	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	17.45	157.46	720.66	675.24	685.45	495.42	801.39
PWY-7220	0.00	0.00	0.00	0.00	11.16	0.00	0.00
PWY-7221	0.00	0.00	0.00	0.00	495.31	0.00	0.00
PWY-7222	0.00	0.00	0.00	0.00	11.16	0.00	0.00
PWY-7228	0.00	0.00	0.00	0.00	21.85	0.00	0.00
PWY-7229	0.00	0.00	0.00	0.00	42.63	0.00	0.00
PWY-7234	0.00	0.00	0.00	0.00	543.09	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	0.00	0.00	0.00	0.00	53.10	0.00	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H32	H33	H34	H35	H36	H37	H38
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	63.87	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7560	0.00	0.00	0.00	0.00	35.81	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	16.46	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	15.53	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	38.95	0.00	0.00
PWY-922	9.81	131.35	522.64	462.64	0.00	328.82	287.07
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	19.03	134.53	565.14	457.08	20.69	336.82	396.06
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	8.57	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	29.90	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	15.40	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	16.69	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	16.69	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00	331.75
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	89.78	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	0.00	0.00	0.00	0.00	63.79	0.00	259.60
TRNA-CHARGING-PWY	0.00	163.27	646.98	551.82	109.83	422.70	786.34

Pathway	H32	H33	H34	H35	H36	H37	H38
TRPSYN-PWY	0.00	0.00	0.00	0.00	112.41	0.00	0.00
UDPNAGSYN-PWY	16.70	152.54	645.62	582.76	518.38	437.12	790.73
VALSYN-PWY	0.00	0.00	0.00	0.00	103.73	0.00	0.00

Pathway	H4	H40	H41	H42	H43	H44	H5
UNMAPPED	56452.81	17413.09	13033.67	31885.22	24227.91	18340.39	41270.38
UNINTEGRATED	251037.83	4516.11	27314.95	136141.57	103668.76	71888.96	26886.62
1CMET2-PWY	0.00	0.00	22.88	0.00	0.00	0.00	10.50
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	9.55
ANAGLYCOLYSIS-PWY	36.14	0.00	23.78	0.00	0.00	0.00	9.06
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	16.02
ASPASN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.95
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	14.74
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	24.26
COA-PWY	258.01	0.00	9.72	145.51	271.66	58.91	5.63
COA-PWY-1	336.39	0.00	13.22	212.63	236.61	59.32	6.17
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	16.17
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	0.00	0.00	11.91	0.00	0.00	0.00	11.70
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	9.95
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	14.77
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	5.79
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	143.07	0.00	0.00	7.24
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	15.34
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.18
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	6.85	0.00	0.00	0.00	9.97
GLYCOLYSIS	36.29	0.00	0.00	0.00	0.00	0.00	12.12
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	13.39
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H4	H40	H41	H42	H43	H44	H5
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	12.39
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	18.82
LACTOSECAT-PWY	0.00	12.77	0.00	0.00	0.00	0.00	0.00
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	13.86
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	14.90
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	11.23
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	20.68
OANTIGEN-PWY	0.00	0.00	15.18	0.00	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	100.02	0.00	0.00	0.00	0.00	23.55	6.17
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	9.61
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	12.13
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	5.19
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYGCANSYN-PWY	263.62	0.00	22.21	111.84	293.24	46.48	6.54
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	13.27
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.73
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	11.35
PWY-1042	13.26	0.00	13.17	0.00	0.00	0.00	27.02
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	243.16	0.00	0.00	120.22	0.00	51.84	0.00
PWY-2942	244.63	0.00	0.00	118.07	0.00	55.61	0.00
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00	16.26
PWY-3841	240.32	0.00	24.76	118.16	0.00	56.40	12.48
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	12.36
PWY-4242	268.73	0.00	0.00	151.42	0.00	57.31	0.00
PWY-4981	0.00	0.00	0.00	0.00	0.00	0.00	9.91
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	248.50	0.00	0.00	121.28	0.00	54.36	0.00
PWY-5100	332.73	0.00	43.98	166.58	372.56	71.55	6.00
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00	11.57
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H4	H40	H41	H42	H43	H44	H5
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	30.30	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	15.96
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5484	0.00	0.00	0.00	0.00	0.00	0.00	14.17
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	0.00	0.00	0.00	0.00	273.49	0.00	14.25
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	299.64	0.00	45.90	117.77	384.17	58.49	0.00
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	6.65
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	5.94
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	5.94
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	5.94
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	19.83
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	21.79	0.00	0.00	0.00	12.97
PWY-6122	0.00	0.00	33.67	0.00	0.00	0.00	14.82
PWY-6123	0.00	0.00	43.54	0.00	0.00	0.00	0.00
PWY-6124	0.00	0.00	36.14	0.00	0.00	0.00	0.00
PWY-6125	0.00	0.00	0.00	0.00	0.00	0.00	13.38
PWY-6126	0.00	0.00	0.00	0.00	0.00	0.00	10.76
PWY-6147	0.00	0.00	0.00	0.00	283.87	0.00	9.07
PWY-6151	321.91	0.00	80.09	132.04	0.00	80.38	13.23
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	17.11
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	0.00	0.00	33.67	0.00	0.00	0.00	14.82
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	10.76
PWY-6317	0.00	0.00	10.48	0.00	0.00	0.00	0.00
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	21.73	27.24	0.00	0.00	7.48
PWY-6386	279.77	0.00	32.96	113.64	317.20	52.10	7.58

Pathway	H4	H40	H41	H42	H43	H44	H5
PWY-6387	267.68	0.00	19.00	109.48	306.17	45.35	7.77
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	23.84	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	0.00	10.77	130.89	0.00	0.00	9.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	0.00	0.00	0.00	0.00	0.00	7.53
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	6.61
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	5.94
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	0.00	23.29	0.00	0.00	0.00	10.03
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	7.02
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	17.26
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	8.40
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00	10.34
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	0.00	0.00	0.00	8.99
PWY-7199	0.00	11.57	0.00	0.00	0.00	13.88	7.73
PWY-7208	0.00	0.00	0.00	0.00	0.00	0.00	14.95
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	386.24	0.00	76.89	196.70	373.14	81.49	11.88
PWY-7220	0.00	0.00	0.00	0.00	0.00	0.00	14.62
PWY-7221	305.38	0.00	44.71	136.17	0.00	56.65	12.89
PWY-7222	0.00	0.00	0.00	0.00	0.00	0.00	14.62
PWY-7228	0.00	0.00	0.00	0.00	0.00	0.00	14.25
PWY-7229	0.00	0.00	0.00	0.00	0.00	0.00	10.79
PWY-7234	0.00	0.00	43.54	0.00	0.00	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	19.89
PWY-724	241.60	0.00	0.00	115.39	0.00	48.57	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H4	H40	H41	H42	H43	H44	H5
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	12.87
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	0.00	5.89
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	0.00	0.00	0.00	231.10	0.00	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	6.09
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	15.73
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	10.55
PWY0-1319	0.00	0.00	0.00	0.00	273.49	0.00	14.25
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	8.87
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	29.88	0.00	0.00	0.00	29.48
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00	13.13
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00	13.13
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	258.42	0.00	0.00	0.00	0.00	33.52	6.81
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	5.38
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	10.27
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	6.87
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	246.30	0.00	0.00	114.94	0.00	46.16	16.28
TRNA-CHARGING-PWY	284.68	0.00	29.85	123.78	303.85	51.87	0.00

Pathway	H4	H40	H41	H42	H43	H44	H5
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	6.85
UDPNAGSYN-PWY	273.64	0.00	29.18	121.03	322.36	47.62	16.11
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	18.82

Pathway	H6	H7	H8	H9	O1	O10	O11
UNMAPPED	103813.58	45202.27	60758.65	26638.31	42353.63	61859.38	108222.87
UNINTEGRATED	341779.71	225222.10	276681.82	64659.05	57831.13	305397.80	506362.41
1CMET2-PWY	0.00	0.00	54.82	20.36	64.70	15.77	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	36.79	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	580.23	32.27	0.00	48.36	58.65	0.00	0.00
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	29.89	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	31.55	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	33.49	21.12	0.00
ASPASN-PWY	0.00	0.00	0.00	13.38	15.53	113.26	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	8.05	0.00	42.34	15.38	0.00
CALVIN-PWY	0.00	0.00	0.00	34.61	13.93	71.04	0.00
COA-PWY	555.34	272.95	251.51	78.96	67.17	432.00	1116.70
COA-PWY-1	575.22	312.95	319.26	85.28	63.43	492.22	1116.70
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	35.49	22.10	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	22.78	25.18	0.00
DTDPRHAMSYN-PWY	0.00	24.70	0.00	80.53	53.06	32.20	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	19.10	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	34.14	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	202.43	0.00	14.41	39.48	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	25.92	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	14.54	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	28.73	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	23.14	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	27.86	12.46	0.00
GLYCOLYSIS	595.10	32.22	56.20	49.20	0.00	175.59	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	6.12	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	9.29	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	7.48	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	32.31	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	34.66	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	33.59	0.00	0.00

Pathway	H6	H7	H8	H9	O1	O10	O11
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	0.00	37.91	0.00
ILEUSYN-PWY	0.00	0.00	9.42	0.00	46.35	23.29	0.00
LACTOSECAT-PWY	0.00	0.00	0.00	22.11	39.16	0.00	1439.19
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	15.73	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	46.17	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00	26.32	50.05	0.00
NONOXIPENT-PWY	0.00	5.86	0.00	13.39	30.21	26.56	0.00
OANTIGEN-PWY	0.00	34.67	0.00	72.85	61.03	55.78	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	12.74	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	46.38	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	74.27	108.10	23.37	36.27	189.09	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	22.37	21.95	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00	61.10	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00	68.36	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	32.78	0.00	0.00
PEPTIDOLYGCANSYN-PWY	505.69	237.02	284.50	85.26	71.12	416.24	1359.62
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	18.05	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	10.27	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	9.16	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	535.63	52.39	107.14	26.22	13.38	218.82	0.00
PWY-1269	0.00	0.00	0.00	0.00	0.00	25.44	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	9.93	0.00
PWY-2723	0.00	0.00	0.00	0.00	14.03	0.00	0.00
PWY-2941	0.00	258.82	278.96	70.68	0.00	363.27	0.00
PWY-2942	0.00	264.86	287.15	73.58	27.25	371.63	0.00
PWY-3001	0.00	0.00	13.41	14.03	49.04	46.79	0.00
PWY-3841	173.79	237.12	237.44	56.01	69.42	428.11	0.00
PWY-4041	0.00	0.00	0.00	6.42	0.00	7.08	0.00
PWY-4242	544.38	266.24	260.02	76.13	60.45	451.23	0.00
PWY-4981	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	261.49	283.56	70.69	27.53	367.19	0.00
PWY-5100	275.70	328.89	352.62	126.70	59.64	616.31	1661.52
PWY-5103	0.00	0.00	6.87	0.00	42.34	23.55	0.00
PWY-5104	0.00	0.00	0.00	8.49	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	17.47	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H6	H7	H8	H9	O1	O10	O11
PWY-5189		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384		650.83	0.00	0.00	61.11	64.08	26.21
PWY-5484		0.00	17.93	38.02	34.69	0.00	110.73
PWY-5656		0.00	0.00	0.00	5.21	0.00	0.00
PWY-5659		0.00	0.00	0.00	7.80	38.84	0.00
PWY-5667		0.00	0.00	0.00	8.51	0.00	26.71
PWY-5675		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686		0.00	292.83	296.84	80.28	76.01	477.44
PWY-5690		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695		0.00	0.00	0.00	18.41	0.00	52.15
PWY-5723		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913		0.00	0.00	0.00	13.53	0.00	65.06
PWY-5918		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973		0.00	0.00	0.00	0.00	0.00	41.86
PWY-5989		0.00	0.00	0.00	0.00	0.00	13.04
PWY-6121		0.00	0.00	0.00	0.00	35.39	0.00
PWY-6122		0.00	0.00	7.05	0.00	46.46	0.00
PWY-6123		0.00	0.00	0.00	0.00	42.43	0.00
PWY-6124		0.00	0.00	0.00	0.00	39.00	0.00
PWY-6125		0.00	0.00	0.00	0.00	20.24	10.49
PWY-6126		0.00	0.00	0.00	0.00	26.77	15.65
PWY-6147		0.00	0.00	11.44	0.00	0.00	0.00
PWY-6151		0.00	326.54	370.06	111.47	72.59	572.97
PWY-6163		0.00	0.00	0.00	0.00	32.85	35.16
PWY-6168		645.05	0.00	0.00	0.00	0.00	94.80
PWY-622		0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270		0.00	0.00	0.00	0.00	24.57	41.52
PWY-6277		0.00	0.00	7.05	0.00	46.46	0.00
PWY-6282		0.00	0.00	0.00	0.00	0.00	15.74
PWY-6284		0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305		0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317		743.50	18.42	0.00	0.00	30.15	16.40
PWY-6353		0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385		0.00	0.00	63.27	19.12	68.29	224.86
PWY-6386		598.68	249.10	306.13	88.67	78.97	446.53

Pathway	H6	H7	H8	H9	O1	O10	O11
PWY-6387	591.15	236.08	291.69	85.34	76.62	425.70	1441.34
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	822.93	72.42	31.74	112.17	53.13	0.00	0.00
PWY-6531	0.00	0.00	0.00	20.57	0.00	8.73	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	7.46	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	6.91	0.00	20.22	0.00
PWY-6609	0.00	0.00	9.02	15.08	0.00	63.52	0.00
PWY-6700	0.00	0.00	10.46	0.00	0.00	47.49	0.00
PWY-6703	0.00	0.00	9.59	11.62	0.00	38.96	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	16.99	0.00	0.00
PWY-6737	0.00	0.00	0.00	0.00	33.78	0.00	0.00
PWY-6749	0.00	0.00	0.00	15.59	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	6.75	0.00
PWY-6859	0.00	0.00	0.00	7.06	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	26.34	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	19.97	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	17.14	17.56	46.35	34.82	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	0.00	14.90	0.00
PWY-7184	0.00	0.00	0.00	0.00	19.36	10.13	0.00
PWY-7197	530.69	0.00	0.00	0.00	23.00	6.03	0.00
PWY-7198	0.00	0.00	0.00	0.00	26.96	10.48	0.00
PWY-7199	435.93	0.00	17.12	15.35	0.00	0.00	0.00
PWY-7208	556.18	0.00	0.00	0.00	30.94	9.02	0.00
PWY-7210	0.00	0.00	0.00	0.00	20.77	11.26	0.00
PWY-7219	853.10	350.39	458.56	160.91	81.40	715.61	1711.30
PWY-7220	0.00	0.00	0.00	0.00	14.17	6.80	0.00
PWY-7221	578.04	284.07	329.76	123.53	30.24	492.36	0.00
PWY-7222	0.00	0.00	0.00	0.00	14.17	6.80	0.00
PWY-7228	0.00	0.00	0.00	0.00	25.07	13.42	0.00
PWY-7229	0.00	0.00	0.00	0.00	32.97	26.45	0.00
PWY-7234	0.00	0.00	0.00	0.00	42.43	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	0.00	242.22	259.75	59.71	31.67	364.15	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	H6	H7	H8	H9	O1	O10	O11
PWY-7315		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357		0.00	0.00	0.00	0.00	0.00	21.44
PWY-7388		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400		0.00	0.00	0.00	0.00	29.86	0.00
PWY-7446		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539		0.00	0.00	14.60	0.00	0.00	0.00
PWY-7560		0.00	0.00	0.00	0.00	23.72	50.05
PWY-7663		0.00	0.00	0.00	0.00	9.08	44.38
PWY-7664		0.00	0.00	0.00	0.00	0.00	17.17
PWY-841		0.00	0.00	0.00	0.00	26.85	0.00
PWY-922		0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1061		0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241		0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261		0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296		0.00	0.00	0.00	8.87	0.00	25.87
PWY0-1297		0.00	0.00	0.00	8.71	0.00	33.68
PWY0-1298		0.00	0.00	0.00	9.33	0.00	27.37
PWY0-1319		0.00	0.00	0.00	8.51	0.00	26.71
PWY0-1338		0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415		0.00	0.00	0.00	0.00	0.00	8.29
PWY0-1479		0.00	0.00	0.00	0.00	0.00	18.97
PWY0-1586		0.00	0.00	8.56	7.84	0.00	18.26
PWY0-162		0.00	0.00	0.00	0.00	43.16	0.00
PWY0-166		0.00	0.00	0.00	0.00	0.00	8.24
PWY0-845		0.00	0.00	0.00	0.00	0.00	18.30
PWY0-862		0.00	0.00	0.00	0.00	0.00	15.14
PWY4FS-7		0.00	0.00	0.00	9.37	0.00	12.64
PWY4FS-8		0.00	0.00	0.00	9.37	0.00	12.64
PWY66-409		0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422		0.00	15.20	0.00	0.00	12.82	16.40
PYRIDNUCSAL-PWY		0.00	0.00	0.00	0.00	28.08	0.00
PYRIDNUCSYN-PWY		0.00	0.00	0.00	0.00	0.00	38.78
PYRIDOXSYN-PWY		0.00	0.00	0.00	0.00	0.00	9.30
RHAMCAT-PWY		0.00	0.00	0.00	0.00	8.32	0.00
RIBOSYN2-PWY	658.29	221.81	282.06	70.32	0.00	0.00	387.79
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	18.33
SER-GLYSYN-PWY	0.00	0.00	0.00	10.13	44.02	8.97	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	7.98	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	11.23
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	9.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	20.75	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	41.69	0.00
THRESYN-PWY	0.00	239.00	259.76	57.41	51.41	382.90	0.00
TRNA-CHARGING-PWY	511.22	267.67	311.67	82.87	47.81	479.26	1400.33

Pathway	H6	H7	H8	H9	O1	O10	O11
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	10.72	0.00
UDPNAGSYN-PWY	581.83	258.98	291.94	102.14	78.87	434.56	1433.85
VALSYN-PWY	0.00	0.00	9.42	8.12	46.35	23.29	0.00

Pathway	O12	O13	O14	O15	O16	O17	O18
UNMAPPED	31268.32	95660.55	22512.47	25025.33	92825.78	0.00	33796.87
UNINTEGRATED	66466.99	326556.61	42381.03	103820.94	297721.84	0.00	84779.38
1CMET2-PWY	27.12	0.00	0.00	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	25.82	0.00	45.28	0.00	0.00	0.00	58.52
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	51.48	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	47.41	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.67
ASPASN-PWY	33.19	0.00	0.00	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	75.70	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COA-PWY	13.37	323.91	21.60	132.34	43.76	0.00	325.23
COA-PWY-1	74.92	499.11	47.34	132.34	575.30	0.00	285.45
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	66.70	281.46	0.00	0.00	42.39	0.00	15.19
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	17.07	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	9.21	0.00	0.00	0.00	0.00	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	42.66	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	84.28	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	71.51	295.73	0.00	0.00	57.11	0.00	0.00
GLYCOLYSIS	24.91	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	8.03	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	8.45
HISTSYN-PWY	61.62	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O12	O13	O14	O15	O16	O17	O18
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	13.41	0.00	0.00	0.00	0.00	0.00	7.88
ILEUSYN-PWY	87.04	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	0.00	0.00	41.10	0.00	0.00	0.00	340.60
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	26.65	228.33	0.00	0.00	21.42	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	15.64
OANTIGEN-PWY	45.14	323.54	0.00	0.00	63.03	0.00	15.12
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	46.32	0.00	0.00	0.00	18.80
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	359.84	12.72	0.00	69.90	0.00	8.95
PANTOSYN-PWY	0.00	0.00	15.49	0.00	0.00	0.00	16.04
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00	17.55
PEPTIDOGLYCANSYN-PWY	69.87	463.07	50.24	213.27	457.27	0.00	256.86
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	19.35	0.00	27.25	0.00	0.00	0.00	41.36
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2942	105.77	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3001	75.44	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	35.29	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4041	80.05	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	13.33	324.10	21.09	0.00	43.91	0.00	29.34
PWY-4981	0.00	253.22	6.40	0.00	23.04	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	9.69
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	93.47	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5100	62.91	304.50	63.23	388.29	523.07	0.00	451.21
PWY-5103	71.17	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O12	O13	O14	O15	O16	O17	O18
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	37.79	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	67.34	0.00	0.00	0.00	0.00	0.00	9.14
PWY-5484	20.86	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00	12.48
PWY-5667	0.00	0.00	42.51	304.17	0.00	0.00	315.11
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	77.49	321.55	74.24	437.96	583.73	0.00	421.66
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00	0.00	0.00	7.29
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	17.03	0.00	0.00	0.00	0.00	0.00	13.20
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	45.18	428.08	9.55	0.00	72.74	0.00	0.00
PWY-6122	48.21	700.51	28.66	0.00	702.35	0.00	0.00
PWY-6123	17.17	455.39	37.02	0.00	515.82	0.00	11.90
PWY-6124	18.96	449.09	34.84	0.00	484.61	0.00	11.25
PWY-6125	38.08	0.00	29.35	0.00	0.00	0.00	23.16
PWY-6126	23.15	0.00	39.53	0.00	0.00	0.00	54.03
PWY-6147	6.88	0.00	21.21	254.41	0.00	0.00	221.17
PWY-6151	72.82	461.56	75.36	0.00	701.04	0.00	28.69
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00	8.56
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00	17.75
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	48.21	700.51	28.66	0.00	702.35	0.00	0.00
PWY-6282	16.13	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	67.74	228.58	41.34	0.00	0.00	0.00	51.78
PWY-6386	70.67	486.35	49.56	225.16	540.90	0.00	272.58

Pathway	O12	O13	O14	O15	O16	O17	O18
PWY-6387	67.55	465.81	47.10	208.06	406.43	0.00	254.33
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	35.84	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00	8.66
PWY-6609	0.00	0.00	0.00	0.00	0.00	0.00	7.15
PWY-6700	14.20	0.00	14.16	0.00	0.00	0.00	7.85
PWY-6703	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	98.18	478.61	43.90	0.00	72.82	0.00	13.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	87.04	0.00	12.86	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	59.10	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	26.50	0.00	19.63	0.00	0.00	0.00	22.02
PWY-7198	38.13	0.00	25.23	0.00	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	0.00	0.00	53.38
PWY-7208	32.03	0.00	27.01	0.00	0.00	0.00	32.53
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	90.74	625.02	106.08	402.06	630.64	0.00	433.04
PWY-7220	29.83	0.00	21.64	0.00	0.00	0.00	24.94
PWY-7221	67.23	438.23	81.64	0.00	471.14	0.00	32.53
PWY-7222	29.83	0.00	21.64	0.00	0.00	0.00	24.94
PWY-7228	43.92	0.00	34.68	0.00	0.00	0.00	32.68
PWY-7229	23.52	0.00	53.77	0.00	0.00	0.00	85.75
PWY-7234	0.00	410.42	37.02	0.00	131.58	0.00	11.84
PWY-7237	0.00	0.00	26.83	0.00	13.41	0.00	0.00
PWY-724	78.88	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O12	O13	O14	O15	O16	O17	O18
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	23.52	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	51.93	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	6.61	0.00	9.09	0.00	0.00	0.00	43.29
PWY-7560	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7663	19.97	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7664	16.52	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	28.65	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	0.00	0.00	28.85	246.79	0.00	0.00	256.39
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	0.00	42.51	304.17	0.00	0.00	315.11
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	30.21	0.00	0.00	0.00	23.44
PWY0-162	17.32	0.00	39.11	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	15.85	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00	23.83
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00	23.83
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	69.33	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	28.36
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	22.49	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THRESYN-PWY	73.95	0.00	0.00	0.00	0.00	0.00	0.00
TRNA-CHARGING-PWY	41.33	0.00	73.79	329.56	0.00	0.00	368.27

Pathway	O12	O13	O14	O15	O16	O17	O18
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	65.30	454.98	62.90	345.02	336.13	0.00	337.58
VALSYN-PWY	87.04	0.00	12.81	0.00	0.00	0.00	0.00

Pathway	O19	O2	O20	O21	O22	O23	O24
UNMAPPED	98222.11	23707.97	22200.53	82196.33	183902.69	0.00	13596.66
UNINTEGRATED	68254.87	65051.87	38801.83	435558.54	718379.69	0.00	15947.25
1CMET2-PWY	44.35	53.84	22.00	0.00	496.54	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	506.64	0.00	0.00
ANAGLYCOLYSIS-PWY	47.51	48.95	25.28	0.00	805.17	0.00	19.17
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	9.65	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	9.86	0.00	0.00	0.00	0.00
ARO-PWY	14.97	18.81	0.00	0.00	364.73	0.00	0.00
ASPA-SN-PWY	13.66	24.47	0.00	0.00	305.36	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	11.16	0.00	0.00	0.00	0.00
CALVIN-PWY	17.80	27.92	0.00	0.00	41.37	0.00	0.00
COA-PWY	42.21	57.39	57.45	497.02	638.36	0.00	12.49
COA-PWY-1	226.79	67.65	65.76	580.72	995.93	0.00	26.68
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	14.15	0.00	0.00	0.00	370.20	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	28.98	59.98	57.80	0.00	627.80	0.00	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	48.50	0.00	0.00
FASYN-INITIAL-PWY	0.00	9.86	0.00	0.00	11.29	0.00	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	21.69	0.00	0.00	51.16	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	58.91	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	10.22	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00	220.29	0.00	0.00
GLYCOLYSIS	0.00	0.00	0.00	0.00	388.73	0.00	21.48
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	268.53	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O19	O2	O20	O21	O22	O23	O24
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	127.72	0.00	0.00	0.00	385.40	0.00	0.00
ILEUSYN-PWY	0.00	0.00	10.82	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	47.63	59.45	0.00	0.00	153.40	0.00	17.28
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00	310.91	0.00	0.00
NONMEVIP-PWY	0.00	0.00	39.38	0.00	402.40	0.00	0.00
NONOXIPENT-PWY	11.53	45.85	0.00	0.00	14.48	0.00	0.00
OANTIGEN-PWY	0.00	47.94	64.27	0.00	483.59	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	1213.89	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	0.00	0.00	184.25	0.00	0.00	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	69.43	0.00	462.23	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	393.37	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	18.82	0.00	0.00
PEPTIDOLYCAN-SYN-PWY	65.14	42.80	59.42	450.78	855.54	0.00	0.00
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	155.17	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	19.03	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	21.54	26.40	0.00	0.00	480.52	0.00	16.04
PWY-1269	0.00	0.00	0.00	0.00	20.52	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	136.63	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	503.53	0.00	0.00	7.65
PWY-2942	0.00	0.00	0.00	506.13	410.85	0.00	7.79
PWY-3001	0.00	0.00	0.00	0.00	17.55	0.00	0.00
PWY-3841	58.15	48.48	30.37	439.74	443.20	0.00	24.38
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	24.10	47.03	59.09	518.92	628.53	0.00	12.11
PWY-4981	0.00	15.64	43.54	0.00	110.98	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	0.00	0.00	506.59	36.69	0.00	7.98
PWY-5100	134.77	24.38	29.77	694.97	707.81	0.00	23.45
PWY-5103	0.00	0.00	8.77	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O19	O2	O20	O21	O22	O23	O24
PWY-5189		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265		0.00	42.75	0.00	0.00	786.01	0.00
PWY-5347		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367		0.00	0.00	0.00	0.00	188.18	0.00
PWY-5384		0.00	0.00	17.56	0.00	0.00	0.00
PWY-5484		0.00	0.00	0.00	0.00	350.08	0.00
PWY-5656		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659		0.00	30.52	33.43	0.00	136.64	0.00
PWY-5667		0.00	29.36	0.00	0.00	151.04	28.92
PWY-5675		0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	254.57	116.57	26.95	597.90	876.47	0.00	26.98
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	25.22	32.21	0.00	0.00	593.05	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00	279.42	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	57.18	0.00	0.00
PWY-5973	12.43	18.12	0.00	0.00	304.24	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	229.43	0.00	0.00
PWY-6121	50.56	12.79	75.39	0.00	444.20	0.00	0.00
PWY-6122	168.17	21.47	77.84	0.00	920.97	0.00	0.00
PWY-6123	213.94	18.65	80.74	0.00	999.88	0.00	0.00
PWY-6124	206.89	11.43	70.23	0.00	952.42	0.00	0.00
PWY-6125	0.00	22.72	0.00	0.00	17.69	0.00	0.00
PWY-6126	0.00	33.08	0.00	0.00	26.41	0.00	0.00
PWY-6147	0.00	17.16	0.00	0.00	291.36	0.00	0.00
PWY-6151	103.29	88.61	61.36	607.72	1351.22	0.00	0.00
PWY-6163	10.87	15.94	0.00	0.00	440.00	0.00	0.00
PWY-6168	0.00	20.90	0.00	0.00	203.75	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	381.39	0.00	0.00
PWY-6277	168.17	21.47	77.84	0.00	920.97	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	52.06	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	56.70	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	20.70	31.57	0.00	0.00	0.00	0.00	13.94
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	57.36	44.28	42.68	0.00	864.55	0.00	0.00
PWY-6386	46.12	47.24	69.36	485.55	853.64	0.00	0.00

Pathway	O19	O2	O20	O21	O22	O23	O24
PWY-6387	58.05	42.68	68.99	451.35	817.18	0.00	0.00
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	34.98	0.00	0.00	728.08	0.00	0.00
PWY-6507	0.00	30.74	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	27.92	28.47	0.00	0.00	0.00	0.00	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	360.56	0.00	0.00
PWY-6609	21.16	22.74	0.00	0.00	504.33	0.00	0.00
PWY-6700	6.98	10.53	0.00	0.00	484.59	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	312.59	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	19.84	31.09	96.68	0.00	821.71	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	19.03	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	25.46	0.00	0.00	243.43	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	13.10	39.05	0.00	0.00	380.13	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	7.20	0.00	9.08	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	20.19	0.00	0.00
PWY-7117	0.00	0.00	0.00	0.00	241.76	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	14.30	0.00	0.00	10.16	0.00	0.00
PWY-7198	0.00	21.87	0.00	0.00	17.58	0.00	0.00
PWY-7199	14.50	26.68	0.00	0.00	238.46	0.00	0.00
PWY-7208	0.00	21.02	0.00	0.00	15.18	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	352.01	150.94	74.06	754.47	1590.53	0.00	45.15
PWY-7220	0.00	16.31	0.00	0.00	11.43	0.00	0.00
PWY-7221	230.17	82.79	54.81	566.89	1255.39	0.00	20.34
PWY-7222	0.00	16.31	0.00	0.00	11.43	0.00	0.00
PWY-7228	0.00	27.43	0.00	0.00	22.66	0.00	0.00
PWY-7229	0.00	49.07	0.00	0.00	44.77	0.00	0.00
PWY-7234	16.80	18.65	70.88	0.00	819.84	0.00	0.00
PWY-7237	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-724	0.00	0.00	0.00	465.87	29.98	0.00	0.00
PWY-7242	0.00	17.73	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O19	O2	O20	O21	O22	O23	O24
PWY-7315		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357		0.00	45.50	0.00	0.00	277.34	0.00
PWY-7388		0.00	0.00	0.00	0.00	13.49	0.00
PWY-7400		0.00	0.00	9.71	0.00	0.00	0.00
PWY-7446		0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539		0.00	16.39	0.00	0.00	299.14	0.00
PWY-7560		0.00	0.00	0.00	0.00	378.44	0.00
PWY-7663	13.50	18.85	0.00	0.00	299.07	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	43.17	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	40.36	0.00	0.00
PWY-922	0.00	17.63	0.00	0.00	113.46	0.00	19.29
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	30.43	0.00	0.00	0.00	0.00
PWY0-1296	0.00	17.69	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	14.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	0.00	29.36	0.00	0.00	151.04	0.00	28.92
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	26.59	42.31	0.00	0.00	537.03	0.00	9.67
PWY0-162	0.00	23.51	0.00	0.00	33.38	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	37.65	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	128.04	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	128.04	0.00	0.00
PWY66-409	0.00	26.84	0.00	0.00	0.00	0.00	0.00
PWY66-422	20.70	29.82	0.00	0.00	0.00	0.00	10.48
PYRIDNUCSAL-PWY	0.00	0.00	26.87	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	0.00	0.00	409.02	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	0.00	0.00	495.43	0.00	0.00	13.64
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	15.69	10.82	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	21.45	0.00	0.00	0.00	160.10	0.00	0.00
THRESYN-PWY	41.28	37.95	0.00	456.60	249.43	0.00	0.00
TRNA-CHARGING-PWY	53.91	78.46	0.00	545.00	963.43	0.00	31.65

Pathway	O19	O2	O20	O21	O22	O23	O24
TRPSYN-PWY	0.00	0.00	28.28	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	114.86	58.32	73.73	555.77	505.73	0.00	33.46
VALSYN-PWY	0.00	0.00	10.82	0.00	9.08	0.00	0.00

Pathway	O25	O26	O27	O28	O29	O3
UNMAPPED	39504.09	141939.55	0.00	325028.36	43554.67	71647.97
UNINTEGRATED	165017.56	600396.24	0.00	2127987.79	251713.21	361685.00
1CMET2-PWY	0.00	97.90	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	0.00	56.65	0.00	0.00	0.00	0.00
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	0.00	0.00	0.00	0.00	0.00	0.00
ARO-PWY	0.00	148.79	0.00	0.00	0.00	0.00
ASPASN-PWY	0.00	59.20	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
CALVIN-PWY	0.00	33.83	0.00	0.00	0.00	0.00
COA-PWY	248.52	668.86	0.00	2441.78	267.71	471.15
COA-PWY-1	248.52	1293.72	0.00	3672.81	337.15	471.15
COBALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	159.36	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	0.00	497.40	0.00	0.00	0.00	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	469.36	0.00
FERMENTATION-PWY	0.00	44.81	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	2858.35	320.03	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	544.31	0.00	0.00	0.00	0.00
GLYCOLYSIS	0.00	29.80	0.00	0.00	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	43.94	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O25	O26	O27	O28	O29	O3
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	92.40	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	566.76	14.72	0.00	0.00	0.00	1169.41
MET-SAM-PWY	0.00	0.00	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	28.84	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	338.19	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	11.91	0.00	0.00	0.00	0.00
OANTIGEN-PWY	0.00	556.22	0.00	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	0.00	0.00	804.68	0.00	0.00
P4-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	608.41	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	127.25	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00	0.00	0.00
PEPTIDOLYCAN SYN-PWY	0.00	782.86	0.00	2060.48	226.70	1143.63
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1042	0.00	143.37	0.00	0.00	0.00	0.00
PWY-1269	0.00	0.00	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	0.00	0.00	0.00
PWY-2942	0.00	74.67	0.00	0.00	0.00	0.00
PWY-3001	0.00	0.00	0.00	0.00	0.00	0.00
PWY-3841	0.00	102.95	0.00	2339.33	222.38	0.00
PWY-4041	0.00	0.00	0.00	0.00	0.00	0.00
PWY-4242	0.00	683.52	0.00	2549.54	259.28	0.00
PWY-4981	0.00	299.66	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5097	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5100	630.34	510.76	0.00	3321.41	266.69	1402.89
PWY-5103	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5104	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O25	O26	O27	O28	O29	O3
PWY-5189	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5367	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5384	0.00	0.00	0.00	29.12	0.00	0.00
PWY-5484	0.00	25.55	0.00	0.00	0.00	0.00
PWY-5656	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5659	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5667	465.79	8.86	0.00	0.00	0.00	1045.03
PWY-5675	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5686	607.38	863.88	0.00	2604.36	280.08	1387.95
PWY-5690	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5695	0.00	73.82	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5913	0.00	86.66	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5973	0.00	40.33	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6121	0.00	800.89	0.00	0.00	0.00	0.00
PWY-6122	0.00	1869.36	0.00	0.00	0.00	0.00
PWY-6123	0.00	1822.76	0.00	0.00	0.00	0.00
PWY-6124	0.00	1814.19	0.00	0.00	0.00	0.00
PWY-6125	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6126	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6147	429.86	0.00	0.00	0.00	0.00	951.72
PWY-6151	0.00	2130.62	0.00	2645.97	294.29	0.00
PWY-6163	0.00	124.31	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	122.23	0.00	0.00	0.00	0.00
PWY-6277	0.00	1869.36	0.00	0.00	0.00	0.00
PWY-6282	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6353	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6385	0.00	809.98	0.00	0.00	0.00	0.00
PWY-6386	0.00	793.44	0.00	2076.14	242.39	1284.01

Pathway	O25	O26	O27	O28	O29	O3
PWY-6387	0.00	716.22	0.00	2009.78	227.34	1232.14
PWY-6396	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6507	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6519	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6527	0.00	0.00	0.00	2400.92	296.11	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6588	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6606	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6608	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6609	0.00	51.00	0.00	0.00	0.00	0.00
PWY-6700	0.00	98.61	0.00	0.00	0.00	0.00
PWY-6703	0.00	48.89	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6737	0.00	643.28	0.00	0.00	0.00	0.00
PWY-6749	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6803	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6892	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6897	0.00	37.36	0.00	0.00	0.00	0.00
PWY-6901	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6936	0.00	97.60	0.00	0.00	0.00	0.00
PWY-6969	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7111	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7117	0.00	41.75	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7208	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7219	613.73	2206.98	0.00	3571.46	394.01	1355.82
PWY-7220	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7221	0.00	1414.45	0.00	2547.94	243.16	0.00
PWY-7222	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7228	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7229	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7234	0.00	1495.40	0.00	0.00	0.00	0.00
PWY-7237	0.00	7.96	0.00	0.00	0.00	0.00
PWY-724	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7242	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7254	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7282	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O25	O26	O27	O28	O29	O3
PWY-7315	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7323	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7357	0.00	42.75	0.00	0.00	0.00	0.00
PWY-7388	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7400	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7446	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7539	0.00	0.00	0.00	0.00	0.00	0.00
PWY-7560	0.00	113.77	0.00	0.00	0.00	0.00
PWY-7663	0.00	40.09	0.00	0.00	0.00	0.00
PWY-7664	0.00	0.00	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00	0.00
PWY-922	423.72	0.00	0.00	0.00	0.00	800.35
PWY0-1061	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1319	465.79	8.86	0.00	0.00	0.00	1045.03
PWY0-1338	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-162	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00	0.00
PWY66-422	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	78.03	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	19.81	0.00	0.00	0.00	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	27.86	0.00	0.00	0.00	0.00
THRESYN-PWY	0.00	211.11	0.00	0.00	0.00	0.00
TRNA-CHARGING-PWY	548.59	367.89	0.00	2483.79	196.22	1197.49

Pathway	O25	O26	O27	O28	O29	O3
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	581.86	783.50	0.00	2357.04	234.45	1248.77
VALSYN-PWY	0.00	0.00	0.00	0.00	0.00	0.00

Pathway	O30	O31	O32	O4	O5
UNMAPPED	30773.84	34316.66	24770.01	23747.53	18223.26
UNINTEGRATED	86150.55	151400.11	77041.42	72053.69	17290.30
1CMET2-PWY	38.92	0.00	0.00	0.00	0.00
ANAEROFRUCAT-PWY	23.03	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	65.13	0.00	0.00	0.00	18.71
ARG+POLYAMINE-SYN	30.25	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00	0.00
ARGSYN-PWY	30.15	0.00	0.00	0.00	0.00
ARGSYNBSUB-PWY	32.91	0.00	0.00	0.00	0.00
ARO-PWY	0.00	0.00	0.00	0.00	0.00
ASPASN-PWY	16.14	0.00	0.00	0.00	12.51
BIOTIN-BIOSYNTHESIS-PWY	10.50	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	52.87	0.00	0.00	0.00	0.00
CALVIN-PWY	65.24	0.00	0.00	0.00	0.00
COA-PWY	61.76	392.26	0.00	84.10	10.28
COA-PWY-1	48.30	373.73	0.00	103.73	17.21
COBALSYN-PWY	13.13	0.00	0.00	0.00	0.00
COLANSYN-PWY	18.81	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	15.42	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	0.00	0.00	8.96	0.00	15.46
ECASYN-PWY	0.00	0.00	0.00	0.00	0.00
FAO-PWY	39.53	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	9.74	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	0.00	0.00	11.80
FERMENTATION-PWY	33.51	0.00	0.00	0.00	0.00
FUCCAT-PWY	10.51	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	19.52	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	39.73	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	21.72	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	14.94	0.00	0.00	0.00	0.00
GLUCARDEG-PWY	23.73	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	39.73	0.00	0.00	0.00	0.00
GLUCONEO-PWY	19.48	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	22.05	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	17.09	0.00	0.00	0.00	0.00
GLUTORN-PWY	28.87	0.00	0.00	0.00	0.00
GLYCOCAT-PWY	32.30	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	22.67	0.00	0.00	0.00	0.00
GLYCOLYSIS	53.12	0.00	0.00	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	27.05	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	17.39	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	19.04	0.00	0.00	0.00	0.00
HEMESYN2-PWY	42.52	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	40.41	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	0.00	0.00	0.00

Pathway	O30	O31	O32	O4	O5
HOMOSER-METSYN-PWY	37.47	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00	13.50
ILEUSYN-PWY	56.99	0.00	0.00	0.00	0.00
LACTOSECAT-PWY	87.30	416.22	0.00	0.00	23.47
MET-SAM-PWY	32.83	0.00	0.00	0.00	0.00
METSYN-PWY	29.84	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	10.14	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	13.67	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	16.88	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	76.54	0.00	0.00	0.00	0.00
OANTIGEN-PWY	0.00	0.00	0.00	0.00	17.11
ORNDEG-PWY	0.00	0.00	0.00	0.00	0.00
P105-PWY	15.85	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00	0.00
P124-PWY	10.58	0.00	0.00	0.00	0.00
P125-PWY	0.00	0.00	0.00	0.00	0.00
P161-PWY	0.00	0.00	0.00	31.36	0.00
P4-PWY	12.90	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00	0.00
P461-PWY	38.70	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	37.58	0.00	0.00	0.00	0.00
PEPTIDOLYCAN-SYN-PWY	67.19	392.74	0.00	70.79	13.80
PHOSLIPSYN-PWY	61.56	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	31.60	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	36.19	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00	0.00
PWY-1042	63.26	0.00	0.00	0.00	24.25
PWY-1269	27.19	0.00	0.00	0.00	0.00
PWY-1861	41.56	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00	0.00
PWY-2723	8.91	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	53.02	0.00
PWY-2942	15.75	0.00	0.00	51.41	0.00
PWY-3001	21.13	0.00	0.00	0.00	0.00
PWY-3841	38.59	0.00	0.00	87.80	0.00
PWY-4041	22.98	0.00	0.00	0.00	0.00
PWY-4242	44.06	0.00	0.00	87.09	9.82
PWY-4981	0.00	0.00	0.00	0.00	10.99
PWY-5030	0.00	0.00	0.00	0.00	0.00
PWY-5083	10.35	0.00	0.00	0.00	0.00
PWY-5097	19.73	0.00	0.00	52.31	0.00
PWY-5100	82.00	467.40	0.00	111.83	0.00
PWY-5103	52.43	0.00	0.00	0.00	0.00
PWY-5104	38.00	0.00	0.00	0.00	0.00
PWY-5154	23.48	0.00	0.00	0.00	0.00
PWY-5188	22.47	0.00	0.00	0.00	0.00

Pathway	O30	O31	O32	O4	O5	
PWY-5189	18.98	0.00	0.00	0.00	0.00	0.00
PWY-5265	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5347	18.71	0.00	0.00	0.00	0.00	0.00
PWY-5367	37.36	0.00	0.00	0.00	0.00	0.00
PWY-5384	18.37	0.00	0.00	0.00	0.00	0.00
PWY-5484	39.20	0.00	0.00	0.00	0.00	0.00
PWY-5656	7.32	0.00	0.00	0.00	0.00	0.00
PWY-5659	11.55	0.00	0.00	0.00	0.00	0.00
PWY-5667	60.58	361.61	0.00	0.00	0.00	17.47
PWY-5675	30.23	0.00	0.00	0.00	0.00	0.00
PWY-5686	98.33	503.35	104.17	107.35	107.35	16.51
PWY-5690	13.42	0.00	0.00	0.00	0.00	0.00
PWY-5695	47.09	0.00	9.84	0.00	0.00	0.00
PWY-5723	41.11	0.00	0.00	0.00	0.00	0.00
PWY-5837	10.47	0.00	0.00	0.00	0.00	0.00
PWY-5838	24.32	0.00	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00	0.00	0.00
PWY-5861	19.89	0.00	0.00	0.00	0.00	0.00
PWY-5897	22.65	0.00	0.00	0.00	0.00	0.00
PWY-5898	22.65	0.00	0.00	0.00	0.00	0.00
PWY-5899	22.65	0.00	0.00	0.00	0.00	0.00
PWY-5913	24.10	0.00	0.00	0.00	0.00	0.00
PWY-5918	19.53	0.00	0.00	0.00	0.00	0.00
PWY-5971	9.50	0.00	0.00	0.00	0.00	0.00
PWY-5973	11.98	0.00	0.00	0.00	0.00	14.23
PWY-5989	13.34	0.00	0.00	0.00	0.00	0.00
PWY-6121	9.89	0.00	0.00	0.00	0.00	16.48
PWY-6122	9.64	0.00	0.00	0.00	0.00	17.30
PWY-6123	0.00	0.00	0.00	0.00	0.00	13.65
PWY-6124	7.69	0.00	0.00	0.00	0.00	16.04
PWY-6125	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6126	29.79	0.00	0.00	0.00	0.00	0.00
PWY-6147	73.06	315.46	0.00	0.00	0.00	0.00
PWY-6151	50.91	0.00	0.00	93.91	93.91	14.62
PWY-6163	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6168	0.00	0.00	0.00	0.00	0.00	0.00
PWY-622	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00	0.00	0.00
PWY-6277	9.64	0.00	0.00	0.00	0.00	17.30
PWY-6282	10.75	0.00	0.00	0.00	0.00	0.00
PWY-6284	9.79	0.00	0.00	0.00	0.00	0.00
PWY-6305	37.96	0.00	0.00	0.00	0.00	0.00
PWY-6317	20.82	0.00	0.00	0.00	0.00	15.67
PWY-6353	33.49	0.00	0.00	0.00	0.00	0.00
PWY-6385	71.07	0.00	0.00	0.00	0.00	14.08
PWY-6386	71.38	426.48	0.00	83.92	83.92	15.11

Pathway	O30	O31	O32	O4	O5
PWY-6387	68.16	404.11	0.00	76.04	14.34
PWY-6396	0.00	0.00	0.00	0.00	0.00
PWY-6471	0.00	0.00	0.00	0.00	0.00
PWY-6507	18.35	0.00	0.00	0.00	0.00
PWY-6519	10.88	0.00	0.00	0.00	0.00
PWY-6527	27.63	0.00	0.00	0.00	0.00
PWY-6531	0.00	0.00	0.00	0.00	0.00
PWY-6545	0.00	0.00	0.00	0.00	0.00
PWY-6588	10.78	0.00	0.00	0.00	0.00
PWY-6595	0.00	0.00	0.00	0.00	0.00
PWY-6606	56.01	0.00	0.00	0.00	0.00
PWY-6608	56.01	0.00	0.00	0.00	0.00
PWY-6609	43.99	0.00	0.00	0.00	0.00
PWY-6700	19.80	0.00	0.00	0.00	0.00
PWY-6703	0.00	0.00	0.00	0.00	0.00
PWY-6708	0.00	0.00	0.00	0.00	0.00
PWY-6731	0.00	0.00	0.00	0.00	0.00
PWY-6737	31.49	0.00	0.00	0.00	0.00
PWY-6749	25.11	0.00	0.00	0.00	0.00
PWY-6803	29.83	0.00	0.00	0.00	0.00
PWY-6859	0.00	0.00	0.00	0.00	0.00
PWY-6892	15.07	0.00	0.00	0.00	0.00
PWY-6897	7.91	0.00	0.00	0.00	0.00
PWY-6901	28.88	0.00	0.00	0.00	0.00
PWY-6936	35.77	0.00	0.00	0.00	20.48
PWY-6969	15.85	0.00	0.00	0.00	0.00
PWY-7013	0.00	0.00	0.00	0.00	0.00
PWY-7111	70.13	0.00	0.00	0.00	0.00
PWY-7115	0.00	0.00	0.00	0.00	0.00
PWY-7117	14.05	0.00	0.00	0.00	0.00
PWY-7184	0.00	0.00	0.00	0.00	0.00
PWY-7197	0.00	0.00	0.00	0.00	0.00
PWY-7198	0.00	0.00	0.00	0.00	0.00
PWY-7199	0.00	0.00	0.00	0.00	16.78
PWY-7208	0.00	0.00	0.00	0.00	0.00
PWY-7210	0.00	0.00	0.00	0.00	0.00
PWY-7219	103.39	503.38	147.71	123.11	17.96
PWY-7220	15.48	0.00	0.00	0.00	0.00
PWY-7221	22.45	0.00	105.29	113.18	20.30
PWY-7222	15.48	0.00	0.00	0.00	0.00
PWY-7228	0.00	0.00	0.00	0.00	0.00
PWY-7229	42.78	0.00	0.00	0.00	0.00
PWY-7234	0.00	0.00	0.00	0.00	11.90
PWY-7237	10.35	0.00	220.73	0.00	0.00
PWY-724	18.37	0.00	0.00	56.15	0.00
PWY-7242	20.20	0.00	0.00	0.00	0.00
PWY-7254	14.93	0.00	0.00	0.00	0.00
PWY-7282	5.47	0.00	0.00	0.00	0.00

Pathway	O30	O31	O32	O4	O5
PWY-7315	11.22	0.00	0.00	0.00	0.00
PWY-7323	8.22	0.00	0.00	0.00	0.00
PWY-7328	0.00	0.00	0.00	0.00	0.00
PWY-7357	8.29	0.00	0.00	0.00	0.00
PWY-7388	10.28	0.00	0.00	0.00	0.00
PWY-7400	28.47	0.00	0.00	0.00	0.00
PWY-7446	7.26	0.00	0.00	0.00	0.00
PWY-7539	18.21	0.00	0.00	0.00	0.00
PWY-7560	16.88	0.00	0.00	0.00	0.00
PWY-7663	10.00	0.00	0.00	0.00	13.88
PWY-7664	8.75	0.00	0.00	0.00	0.00
PWY-841	0.00	0.00	0.00	0.00	0.00
PWY-922	25.72	324.85	0.00	0.00	0.00
PWY0-1061	0.00	0.00	0.00	0.00	0.00
PWY0-1241	13.43	0.00	0.00	0.00	0.00
PWY0-1261	39.91	0.00	0.00	0.00	0.00
PWY0-1296	29.66	0.00	0.00	0.00	0.00
PWY0-1297	0.00	0.00	0.00	0.00	0.00
PWY0-1298	0.00	0.00	0.00	0.00	0.00
PWY0-1319	60.58	361.61	0.00	0.00	17.47
PWY0-1338	0.00	0.00	0.00	0.00	0.00
PWY0-1415	22.98	0.00	0.00	0.00	0.00
PWY0-1479	43.03	0.00	0.00	0.00	0.00
PWY0-1586	102.49	0.00	0.00	0.00	14.88
PWY0-162	0.00	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00	0.00
PWY0-862	7.71	0.00	0.00	0.00	0.00
PWY4FS-7	58.78	0.00	0.00	0.00	0.00
PWY4FS-8	58.78	0.00	0.00	0.00	0.00
PWY66-409	0.00	0.00	0.00	0.00	0.00
PWY66-422	18.96	0.00	0.00	0.00	15.67
PYRIDNUCSAL-PWY	13.19	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	16.50	0.00	0.00	0.00	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00	0.00
RHAMCAT-PWY	35.57	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	0.00	0.00	79.44	0.00
SALVADEHYPOX-PWY	45.72	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	33.99	0.00	0.00	0.00	0.00
SO4ASSIM-PWY	32.99	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	25.24	0.00	0.00	0.00	0.00
TCA	24.42	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	23.20	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00	0.00
THISYN-PWY	9.98	0.00	0.00	0.00	0.00
THISYNARA-PWY	11.30	0.00	0.00	0.00	0.00
THRESYN-PWY	14.95	0.00	0.00	62.65	11.21
TRNA-CHARGING-PWY	83.01	437.68	0.00	80.93	0.00

Pathway	O30	O31	O32	O4	O5
TRPSYN-PWY	0.00	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	81.10	459.90	0.00	69.20	17.37
VALSYN-PWY	56.99	0.00	0.00	0.00	0.00

Pathway	O6	O7	O8	O9
UNMAPPED	26020.63	15630.80	25454.94	39525.36
UNINTEGRATED	82704.08	29390.77	40629.28	174724.35
1CMET2-PWY	0.00	0.00	17.57	0.00
ANAEROFRUCAT-PWY	0.00	0.00	0.00	0.00
ANAGLYCOLYSIS-PWY	0.00	0.00	39.45	23.87
ARG+POLYAMINE-SYN	0.00	0.00	0.00	0.00
ARGORNPROST-PWY	0.00	0.00	0.00	0.00
ARGSYN-PWY	0.00	0.00	16.71	0.00
ARGSYNBSUB-PWY	0.00	0.00	21.27	0.00
ARO-PWY	0.00	0.00	11.86	0.00
ASPASN-PWY	0.00	0.00	0.00	0.00
BIOTIN-BIOSYNTHESIS-PWY	0.00	0.00	0.00	0.00
BRANCHED-CHAIN-AA-SYN-PWY	0.00	0.00	19.49	0.00
CALVIN-PWY	0.00	0.00	0.00	0.00
COA-PWY	230.93	79.33	24.60	400.68
COA-PWY-1	203.96	79.33	40.29	368.77
COBALSYN-PWY	0.00	0.00	0.00	0.00
COLANSYN-PWY	0.00	0.00	0.00	0.00
COMPLETE-ARO-PWY	0.00	0.00	0.00	0.00
DAPLYSINESYN-PWY	0.00	0.00	0.00	0.00
DTDPRHAMSYN-PWY	0.00	0.00	22.20	0.00
ECASYN-PWY	0.00	0.00	0.00	0.00
FAO-PWY	0.00	0.00	0.00	0.00
FASYN-ELONG-PWY	0.00	0.00	0.00	0.00
FASYN-INITIAL-PWY	0.00	0.00	15.29	0.00
FERMENTATION-PWY	0.00	0.00	0.00	0.00
FUCCAT-PWY	0.00	0.00	0.00	0.00
GALACT-GLUCUROCAT-PWY	0.00	0.00	0.00	0.00
GALACTARDEG-PWY	0.00	0.00	0.00	0.00
GALACTUROCAT-PWY	0.00	0.00	0.00	0.00
GLCMANNANAUT-PWY	0.00	0.00	0.00	0.00
GLUCARDEG-PWY	0.00	0.00	0.00	0.00
GLUCARGALACTSUPER-PWY	0.00	0.00	0.00	0.00
GLUCONEO-PWY	0.00	0.00	0.00	0.00
GLUCOSE1PMETAB-PWY	0.00	0.00	0.00	0.00
GLUCUROCAT-PWY	0.00	0.00	0.00	0.00
GLUTORN-PWY	0.00	0.00	19.55	0.00
GLYCOCAT-PWY	0.00	0.00	0.00	0.00
GLYCOGENSYNTH-PWY	0.00	0.00	0.00	0.00
GLYCOLYSIS	0.00	0.00	0.00	0.00
GLYCOLYSIS-TCA-GLYOX-BYPA	0.00	0.00	0.00	0.00
GLYOXYLATE-BYPASS	0.00	0.00	0.00	0.00
HEME-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00
HEMESYN2-PWY	0.00	0.00	0.00	0.00
HEXITOLDEGSUPER-PWY	0.00	0.00	0.00	0.00
HISDEG-PWY	0.00	0.00	0.00	0.00
HISTSYN-PWY	0.00	0.00	19.30	0.00

Pathway	O6	O7	O8	O9
HOMOSER-METSYN-PWY	0.00	0.00	0.00	0.00
HSERMETANA-PWY	0.00	0.00	0.00	0.00
ILEUSYN-PWY	0.00	0.00	19.95	0.00
LACTOSECAT-PWY	268.80	57.40	37.47	496.67
MET-SAM-PWY	0.00	0.00	0.00	0.00
METSYN-PWY	0.00	0.00	0.00	0.00
NAD-BIOSYNTHESIS-II	0.00	0.00	0.00	0.00
NAGLIPASYN-PWY	0.00	0.00	0.00	0.00
NONMEVIPP-PWY	0.00	0.00	0.00	0.00
NONOXIPENT-PWY	0.00	0.00	32.57	0.00
OANTIGEN-PWY	0.00	0.00	0.00	0.00
ORNDEG-PWY	0.00	0.00	0.00	0.00
P105-PWY	0.00	0.00	0.00	0.00
P122-PWY	0.00	0.00	0.00	0.00
P124-PWY	0.00	0.00	74.37	0.00
P125-PWY	0.00	0.00	15.68	0.00
P161-PWY	0.00	0.00	0.00	0.00
P4-PWY	0.00	0.00	0.00	0.00
P441-PWY	0.00	0.00	0.00	0.00
P461-PWY	0.00	0.00	0.00	0.00
PANTO-PWY	0.00	0.00	0.00	0.00
PANTOSYN-PWY	0.00	0.00	0.00	0.00
PENTOSE-P-PWY	0.00	0.00	0.00	0.00
PEPTIDOGLYCANSYN-PWY	195.28	26.59	19.91	449.15
PHOSLIPSYN-PWY	0.00	0.00	0.00	0.00
POLYAMSYN-PWY	0.00	0.00	0.00	0.00
POLYISOPRENSYN-PWY	0.00	0.00	0.00	0.00
PPGPPMET-PWY	0.00	0.00	0.00	0.00
PWY-1042	0.00	0.00	23.02	16.11
PWY-1269	0.00	0.00	0.00	0.00
PWY-1861	0.00	0.00	0.00	0.00
PWY-241	0.00	0.00	0.00	0.00
PWY-2723	0.00	0.00	0.00	0.00
PWY-2941	0.00	0.00	0.00	0.00
PWY-2942	0.00	0.00	0.00	0.00
PWY-3001	0.00	0.00	0.00	0.00
PWY-3841	0.00	0.00	16.79	0.00
PWY-4041	0.00	0.00	0.00	0.00
PWY-4242	0.00	0.00	0.00	0.00
PWY-4981	0.00	0.00	0.00	0.00
PWY-5030	0.00	0.00	0.00	0.00
PWY-5083	0.00	0.00	0.00	0.00
PWY-5097	0.00	0.00	0.00	0.00
PWY-5100	330.68	99.85	0.00	569.64
PWY-5103	0.00	0.00	16.65	0.00
PWY-5104	0.00	0.00	0.00	0.00
PWY-5154	0.00	0.00	0.00	0.00
PWY-5188	0.00	0.00	0.00	0.00

Pathway	O6	O7	O8	O9
PWY-5189		0.00	0.00	0.00
PWY-5265		0.00	0.00	28.03
PWY-5347		0.00	0.00	0.00
PWY-5367		0.00	0.00	0.00
PWY-5384		0.00	0.00	15.99
PWY-5484		0.00	0.00	0.00
PWY-5656		0.00	0.00	0.00
PWY-5659		0.00	0.00	0.00
PWY-5667	201.31	59.05	0.00	408.27
PWY-5675	0.00	0.00	0.00	0.00
PWY-5686	308.32	113.50	27.21	629.81
PWY-5690	0.00	0.00	0.00	0.00
PWY-5695	0.00	0.00	0.00	0.00
PWY-5723	0.00	0.00	0.00	0.00
PWY-5837	0.00	0.00	0.00	0.00
PWY-5838	0.00	0.00	0.00	0.00
PWY-5855	0.00	0.00	0.00	0.00
PWY-5856	0.00	0.00	0.00	0.00
PWY-5857	0.00	0.00	0.00	0.00
PWY-5861	0.00	0.00	0.00	0.00
PWY-5897	0.00	0.00	0.00	0.00
PWY-5898	0.00	0.00	0.00	0.00
PWY-5899	0.00	0.00	0.00	0.00
PWY-5913	0.00	0.00	0.00	0.00
PWY-5918	0.00	0.00	0.00	0.00
PWY-5971	0.00	0.00	0.00	0.00
PWY-5973	0.00	0.00	0.00	0.00
PWY-5989	0.00	0.00	0.00	0.00
PWY-6121	0.00	0.00	33.70	0.00
PWY-6122	0.00	0.00	57.88	0.00
PWY-6123	0.00	0.00	56.73	0.00
PWY-6124	0.00	0.00	54.89	0.00
PWY-6125	0.00	0.00	21.94	0.00
PWY-6126	0.00	0.00	28.07	0.00
PWY-6147	216.99	81.06	13.18	396.53
PWY-6151	0.00	0.00	79.56	0.00
PWY-6163	0.00	0.00	11.15	0.00
PWY-6168	0.00	0.00	17.38	0.00
PWY-622	0.00	0.00	0.00	0.00
PWY-6270	0.00	0.00	0.00	0.00
PWY-6277	0.00	0.00	57.88	0.00
PWY-6282	0.00	0.00	0.00	0.00
PWY-6284	0.00	0.00	0.00	0.00
PWY-6305	0.00	0.00	0.00	0.00
PWY-6317	0.00	0.00	28.07	0.00
PWY-6353	0.00	0.00	0.00	0.00
PWY-6385	0.00	0.00	22.80	0.00
PWY-6386	210.83	26.42	23.83	477.43

Pathway	O6	O7	O8	O9	
PWY-6387		194.76	22.58	19.66	465.53
PWY-6396		0.00	0.00	14.90	0.00
PWY-6471		0.00	0.00	23.72	0.00
PWY-6507		0.00	0.00	0.00	0.00
PWY-6519		0.00	0.00	0.00	0.00
PWY-6527		0.00	0.00	37.46	0.00
PWY-6531		0.00	0.00	0.00	0.00
PWY-6545		0.00	0.00	0.00	0.00
PWY-6588		0.00	0.00	0.00	0.00
PWY-6595		0.00	0.00	0.00	0.00
PWY-6606		0.00	0.00	0.00	0.00
PWY-6608		0.00	7.51	0.00	0.00
PWY-6609		0.00	6.70	29.62	0.00
PWY-6700		0.00	0.00	26.75	0.00
PWY-6703		0.00	0.00	15.40	0.00
PWY-6708		0.00	0.00	0.00	0.00
PWY-6731		0.00	0.00	0.00	0.00
PWY-6737		0.00	0.00	35.02	0.00
PWY-6749		0.00	0.00	0.00	0.00
PWY-6803		0.00	0.00	0.00	0.00
PWY-6859		0.00	0.00	0.00	0.00
PWY-6892		0.00	0.00	0.00	0.00
PWY-6897		0.00	0.00	0.00	0.00
PWY-6901		0.00	0.00	0.00	0.00
PWY-6936		0.00	0.00	30.69	0.00
PWY-6969		0.00	0.00	0.00	0.00
PWY-7013		0.00	0.00	0.00	0.00
PWY-7111		0.00	0.00	19.62	0.00
PWY-7115		0.00	0.00	0.00	0.00
PWY-7117		0.00	0.00	0.00	0.00
PWY-7184		0.00	0.00	0.00	0.00
PWY-7197		0.00	0.00	14.21	0.00
PWY-7198		0.00	0.00	18.18	0.00
PWY-7199		0.00	0.00	0.00	0.00
PWY-7208		0.00	0.00	19.62	0.00
PWY-7210		0.00	0.00	0.00	0.00
PWY-7219		313.05	118.66	82.14	580.87
PWY-7220		0.00	0.00	15.87	0.00
PWY-7221		0.00	0.00	68.50	0.00
PWY-7222		0.00	0.00	15.87	0.00
PWY-7228		0.00	0.00	26.12	0.00
PWY-7229		0.00	0.00	37.49	0.00
PWY-7234		0.00	0.00	51.93	0.00
PWY-7237		0.00	10.98	0.00	0.00
PWY-724		0.00	0.00	0.00	0.00
PWY-7242		0.00	0.00	0.00	0.00
PWY-7254		0.00	0.00	0.00	0.00
PWY-7282		0.00	0.00	20.01	0.00

Pathway	O6	O7	O8	O9
PWY-7315		0.00	0.00	0.00
PWY-7323		0.00	0.00	0.00
PWY-7328		0.00	0.00	0.00
PWY-7357		0.00	0.00	37.65
PWY-7388		0.00	0.00	15.48
PWY-7400		0.00	0.00	16.74
PWY-7446		0.00	0.00	0.00
PWY-7539		0.00	0.00	15.36
PWY-7560		0.00	0.00	0.00
PWY-7663		0.00	0.00	17.69
PWY-7664		0.00	0.00	0.00
PWY-841		0.00	0.00	31.50
PWY-922	202.77	73.70	0.00	408.05
PWY0-1061	0.00	0.00	0.00	0.00
PWY0-1241	0.00	0.00	0.00	0.00
PWY0-1261	0.00	0.00	0.00	0.00
PWY0-1296	0.00	0.00	27.71	0.00
PWY0-1297	0.00	0.00	11.50	0.00
PWY0-1298	0.00	0.00	0.00	0.00
PWY0-1319	201.31	59.05	0.00	408.27
PWY0-1338	0.00	0.00	0.00	0.00
PWY0-1415	0.00	0.00	0.00	0.00
PWY0-1479	0.00	0.00	0.00	0.00
PWY0-1586	0.00	0.00	58.73	0.00
PWY0-162	0.00	0.00	0.00	0.00
PWY0-166	0.00	0.00	0.00	0.00
PWY0-845	0.00	0.00	0.00	0.00
PWY0-862	0.00	0.00	0.00	0.00
PWY4FS-7	0.00	0.00	0.00	0.00
PWY4FS-8	0.00	0.00	0.00	0.00
PWY66-409	0.00	0.00	26.74	0.00
PWY66-422	0.00	0.00	28.07	0.00
PYRIDNUCSAL-PWY	0.00	0.00	0.00	0.00
PYRIDNUCSYN-PWY	0.00	0.00	21.24	0.00
PYRIDOXSYN-PWY	0.00	0.00	0.00	0.00
RHAMCAT-PWY	0.00	0.00	0.00	0.00
RIBOSYN2-PWY	0.00	0.00	16.64	0.00
SALVADEHYPOX-PWY	0.00	0.00	0.00	0.00
SER-GLYSYN-PWY	0.00	0.00	11.32	0.00
SO4ASSIM-PWY	0.00	0.00	0.00	0.00
SULFATE-CYS-PWY	0.00	0.00	0.00	0.00
TCA	0.00	0.00	0.00	0.00
TCA-GLYOX-BYPASS	0.00	0.00	0.00	0.00
TEICHOICACID-PWY	0.00	0.00	0.00	0.00
THISYN-PWY	0.00	0.00	0.00	0.00
THISYNARA-PWY	0.00	0.00	22.33	0.00
THRESYN-PWY	0.00	0.00	0.00	0.00
TRNA-CHARGING-PWY	261.10	94.23	37.97	493.10

Pathway	O6	O7	O8	O9
TRPSYN-PWY	0.00	0.00	0.00	0.00
UDPNAGSYN-PWY	278.23	84.98	38.81	482.21
VALSYN-PWY	0.00	0.00	19.95	0.00

Supplementary Table 6 The relative abundance of virulence factor, antibiotic resistance, carbohydrate-active enzyme, and biofilm-related genes

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21
evgS		0	0	0	0	0	0	0	0	0	0	0	0
sul2		0	0	0	0	0	0	0	0	0	0	0	0
Bado_rpoB_RIF	2289.297641		0	12.426122	0	454.308685	0	0	438.531261	0	54.980762	474.08014	0
msbA		0	0	0	0	0	0	0	0	0	0	0	0
Bbif_ileS_MUP	1398.622049		0	0	0	812.533608	0	0	1355.10591	0	218.071585	2357.643969	0
Spyo_ErmA_MLSb		0	0	0	0	0	32.001839	0	0	0	0	0	3.32713
AcrF		0	0	0	8.770798	0	0	0	0	0	0	0	6.283177
tet(A)		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)		0	0	0	0	0	0	0	0	0	0	0	0
mphC		0	0	0	0	0	0	0	0	0	0	0	0
mdtG		0	0	0	0	0	0	0	0	0	0	0	0
rpoB2		0	0	641.21058	0	0	0	0	0	0	0	0	0
eptA		0	0	0	0	0	0	0	0	0	0	0	0
tet(M)		0	0	0	0	0	0	0	0	0	0	0	0
ugd		0	0	0	0	0	0	0	0	0	0	0	0
ErmF		0	0	445.239702	0.682854	0	0	0.413875	0	0.805	1.639173	0	0
acrB		0	0	0	0	0	0	0	0	0	0	0	0
efrB		0	0	0	0	0	0	0	0	0	0	0	0
bacA		0	0	0	0	0	0	0	0	0	0	0	0
tet(O)		0	0	0	0	0	0	0	0	0	0	0	0
lsaC	862.921822		0	28.908917	2030.762606	0	0	5167.829898	254.284507	0	392.565286	1657.572297	243.714
Kpne_OmpK37		0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnE		0	0	0	0	0	0	0	0	0	0	0	0
Mrx		0	0	0	0	0	0	0	0	0	0	0	0
ArnT		0	0	0	0	0	0	0	0	0	0	0	0
qacEdelta1		0	0	0	0	0	0	0	0	0	0	0	0
ErmX		0	0	0	0	0	0	0	0	0	3.945023	0	0
Erm(35)		0	0	0	0	0	0	0	0	0	0	0	0
LptD		0	0	0	0	0	0	0	0	0	0	0	1.774588

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
norA		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtB		0	0	0	0	0	0	0	0	0	0	0	0	0
emrA		0	0	0	0	0	0	0	0	0	0	0	0	0
TEM-126		0	0	0	0	0	0	0	0	0	0	0	0	0
mecA		0	0	0	0	0	0	0	0	0	0	0	0	0
emrR		0	0	0	0	0	0	0	0	0	0	0	0	0
acrD		0	0	0	0	0	0	0	0	0	0	0	0	6.084107
PC1_blaZ		0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA6		0	0	235.919199	0	0	0	0	0	0	0	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtC		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtE		0	0	0	0	0	0	0	0	0	0	0	0	0
AAC(6)-Ib7		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	0	0	0	0	0	0	0	0
H-NS		0	0	0	0	0	0	0	0	0	0	0	0	0
mreA		0	0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	0	0	0	0	0	0	0	0
ErmB	1.856318	0.328078	3.126394	821.561181	2.974496	0	217.391701	0	0	0	0	20.3637	0	0
marA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
qacA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
sdiA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtO	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rosB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leuO	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtN	0	0	19.657145	0	0	0	0	0	0	0	0	0	0	0
eptB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MdtK	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA3	0.371728	0	4.379475	2.708019	2.083466	0	0.984725	0	0	0.277651	0	0	0.392661	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
Saga_mprF		0	0	0	0	35.774703	0	0	0	0	0	0	0	0
lnuC		1.538465	0	0	0	0	0	0	0	0	4.603302	0	0	0
FosA6		0	0	0	0	0	0	0	0	0	0	0	0	0
mgrA		0	0	0	0	292.498088	0	0	0	0	0	0	0	0
emrK		0	0	0	0	0	0	0	0	0	0	0	0	0
cpxA		0	0	0	0	0	0	0	0	0	0	0	0	0
mel		84.984839	0	0	0	0	0	0	0	0.595902	0	0	0	0
dfrE		0	0	0	0	150.647005	0	0	0	0	0	0	0	0
catP		0	0	0	0	0	0	0	0	0	0	0	0	0
AcrE		0	0	0	0	0	0	0	0	0	0	0	0	0
PmrF		0	0	0	0	0	0	0	0	0	0	0	0	0
YojI		0	0	0	0	0	0	0	0	0	0	0	0	0
EcoI_emrE		0	0	0	0	0	0	0	0	0	0	0	0	0
arnA		0	0	0	0	0	0	0	0	0	0	0	0	0
CTX-M-121		0	0	0	0	0	0	0	0	0	0	0	0	0
EcoI_acrA		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtF		0	0	0	0	0	0	0	0	0	0	0	0	0
emrB		0	0	0	0	0	0	0	0	0	0	0	0	6.678896
mdtA		0	0	0	0	0	0	0	0	0	0	0	0	0
sulI		0	0	0	0	0	0	0	0	0	0	0	0	0
AAC6_Ie_APH2_Ia		0	0	0	0	0	0	0	0	0	0	0	0	0
dfrF		0	0	0	0	0	0	0	0	0	0	0	0	0
EcoI_mdfA		0	0	0	0	0	0	0	0	0	0	0	0	0
emrY		0	0	0	0	0	0	0	0	0	0	0	0	0
ErnT		0	0	0	2.593696	0	14.902971	0	0	0	0	0	0	0
dfrA17		0	0	0	0	0	0	0	0	0	0	0	0	49.995677
tet(O/32/O)		0	0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia		0	0	0	0	0	0	0	0	0	0	0	0	0
EC-5		0	0	0	0	0	0	0	0	0	0	0	0	1.648974
APH(3')-IIIa		0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
tet(Q)		0	0	0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	0	0	0	0	0	0	0	0
ThfT		0	0	0	0	0	0	0	0	0	0	0	0	0
TolC		0	0	0	0	0	0	0	0	0	0	0	0	0
CRP		0	0	0	0	0	0	0	0	0	0	0	0	0
rosA		0	0	0	0	0	0	0	0	0	0	0	0	0
rsmA		0	0	0	0	0	0	0	0	0	0	0	0	0
msrA		0	0	0	0	54.732312	0	0	0	0	0	0	0	0
aadA5		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtP		0	0	0	0	0	0	0	0	0	0	0	0	7.520105
smeE		0	0	0	0	0	0	0	0	0	0	0	0	0
OmpA		0	0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnH		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0	0	0
nimK		0	0	0.863601	0.320632	0.684813	0	0.12952	0	0	0	0.037231	0	0
cmx		0	0	0	25.267366	0	0	0	0	0	0	0	0	0
AcrS		0	0	0	0	0	0	0	0	0	0	0	0	0
gadW		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(37)		0	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	20819.57798	36995.12215	20563.83791	26422.68086	59424.33077	6431.204633	29439.67849	35613.42359	36657.90747	37659.52014	34184.79941	54128.5	36861.71314	
CE_sum	1587.32411	1376.987154	30.727376	2451.560981	680.71397	400.590223	2294.13578	643.158927	2799.654208	1375.811645	0	1222.43	1271.857851	
CBM_sum	9270.332924	3013.323147	1592.505873	10513.61316	3402.173179	263.910964	21979.58651	4405.283682	2375.476139	3723.684323	4565.261212	3811.87	3788.11909	
GT_sum	11212.32236	10909.43321	4420.629837	9928.145621	24163.85455	1197.188902	9137.926468	14546.06714	9696.530243	12682.19011	14653.69733	11176.4	9847.635292	
PL_sum	0	0	0	0	158.797351	127.914365	0	0	0	20.64215	0	0	0	
VFG044326(gb WP_001327262)	0	0	0	0	0	0	0	0	0	0	0	0	0	
VFG045346(gb WP_011149697)	0	0	0	0	0	0	0	0	0	0	0	0	0	
VFG048621(gb WP_004213924)	0	0	0	0	0	0	0	0	0	0	0	0	0	
VFG001814(gb NP_215678)	0	0	0	0	206.819366	0	0	0	0	0	0	0	0	
VFG005286(gb WP_000746885)	0	0	0	0	0	0	0	0	0	0	0	0	0	
VFG046465(gb WP_003028672)	64.976971	4.611569	0	0	63.254315	447.907356	6.660186	2.028256	0	11.110243	15.26765	0.99651	0	

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21
VFG050164(gb WP_000723250)		0	0	0	0	0	0	0	0	0	0	0	0
VFG037100(gb WP_010980745)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000932(gb WP_000026784)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001447(gb CAA50007)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049144(gb WP_002892069)		0	0	0	8.770798	0	0	0	0	0	0	0	6.283177
VFG045349(gb WP_000092542)		0	0	48.636504	0	0	0	0	0	0	0	0	0
VFG000077(gb NP_465991)	14.551246	0.281492	8.039226	997.333499	516.564151	0	764.481411	0	0	0	0	20.8587	0
VFG048990(gb WP_001741945)	0	0	307.20798	0	0	0	0	0	0	0	0	0	0
VFG000079(gb NP_463763)	77.027105	85.785741	0	0	282.18182	0	71.520437	0	0	32.591686	130.033438	0	0
VFG000874(gb WP_000824100)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012095(gb WP_003435012)	0	0	0	0	507.977782	0	13.896788	0	0	0	450.394497	0	0
VFG000363(gb WP_002212775)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000930(gb WP_000077767)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002164(gb WP_002395058)	0	0	0	0	74.920259	0	0	0	0	0	0	0	0
VFG002182(gb WP_002376666)	0	21.550975	0	0	158.747445	0	0	0	0	11.841248	8.245307	0	0
VFG049160(gb WP_001327259)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044159(gb WP_000125846)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002356(gb WP_011816614)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002046(gb WP_000135089)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005966(gb WP_000578446)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012337(gb WP_001370792)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005775(gb WP_000403526)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002346(gb WP_005160438)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005790(gb WP_000033003)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049157(gb WP_014907259)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000875(gb WP_000066579)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048697(gb WP_015874721)	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21
VFG002319(gb WP_005160341)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048797		0	0	0	0	0	0	0	0	0	0	0	0
VFG002190(gb WP_002362225)		0	0	0	0	163.424372	0	13.675691	0	0	25.150165	0	0
VFG002307(gb NP_461452)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002322(gb WP_011816590)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005215(gb WP_000743858)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012343(gb WP_001234182)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000905(gb WP_001546261)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001359(gb WP_000733059)		0	0	0	0	38.637348	0	0	0	0	0	0	0
VFG050166(gb WP_000066003)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001405(gb NP_217219)	130.295789		0	0	0	0	0	0	270.132693	0	40.08669	495.825119	0
VFG002054(gb WP_000633233)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136)		0	0	0	0	13.338216	0	0	0	0	0	0	0
VFG005978(gb WP_000686634)	0	179.368107		0	0	423.930373	0	1.803432	0	660.037369	17.483901	0	12.3717
VFG049116(gb WP_012737528)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005486(gb WP_000417180)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064)		0	0	0	0	70.150361	0	0	0	0	0	0	0
VFG005778(gb WP_000462410)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048643(gb WP_014907727)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005584(gb WP_000403400)		0	0	0	0	142.704891	0	0	0	0	0	0	0
VFG048830(gb WP_014907233)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048277(gb WP_009308599)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000928(gb WP_000640938)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001444(gb AAG10151)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048687(gb WP_002902160)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000888(gb WP_000723799)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005787(gb WP_000118217)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044332(gb WP_015874967)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000891(gb WP_000006208)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
VFG000939(gb WP_001287497)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000881		0	0	0	0	0	0	0	0	0	0	0	0	21.537982
VFG000475(gb NP_460201)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000907(gb WP_000376545)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043504(gb WP_000671444)		0	0	0	0	0	0	26.917093	0	0	0	0	0	0
VFG049118(gb WP_012737529)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005197(gb WP_000006706)		0	0	0	0	14.766713	0	0	0	0	0	0	0	0
VFG044328(gb WP_015874963)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050160(gb WP_000030755)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002331(gb WP_026018001)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048257(gb WP_004174507)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048841(gb WP_014907232)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012505(gb WP_000933673)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049158(gb WP_001297937)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000923(gb WP_001034892)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002416(gb WP_001265657)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000889(gb WP_000113351)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012513(gb WP_001221122)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006717(gb NP_465159)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043213		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012509(gb WP_001111200)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038380(gb WP_043163044)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048771(gb WP_004190505)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044329(gb WP_015874964)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000477(gb NP_461845)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000964(gb WP_010922799)	31.144596	29.934342	0	0	173.120221	0	0	0	0	0	0	8.346176	0	0
VFG005781(gb WP_000650746)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000959(gb WP_010922232)	0	0	0	0	35.876921	0	0	0	0	0	0	0	0	0
VFG000924(gb WP_001234311)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050165(gb WP_001259305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
VFG013368(gb WP_005693225)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048972(gb WP_014907221)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006002(gb WP_000197412)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001386(gb NP_215271)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049149(gb WP_041169023)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005942(gb WP_000660895)		0	0	0	0	36.01927	0	0	0	0	0	0	0	0
VFG048348(gb WP_004149658)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000940(gb WP_001299620)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000906(gb WP_001142375)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034679		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002412(gb WP_000716386)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002055(gb WP_000097229)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000368(gb WP_000703040)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044165(gb WP_001041793)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049156(gb WP_077265119)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000362		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012327(gb WP_011076307)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002417(gb WP_001301550)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049150(gb WP_000982270)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000929(gb WP_001375021)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000331(gb WP_005693548)		0	0	0	0	0	0	0	0	0	0	0	0	9.122967
VFG000080(gb NP_464522)		0	72.283777	0	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050162(gb WP_001161829)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047708(gb WP_003022611)	249.328947	0	0	0	0	0	0	0	896.523808	0	131.473065	555.330282	0	0
VFG050157(gb WP_001331698)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002338	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043626(gb WP_000820818)	0	0	0	110.635975	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21
VFG043211(gb WP_032902679)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000937(gb WP_000750139)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044327(gb WP_000140406)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013286(gb WP_005694325)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049155(gb WP_000829570)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001795(gb BAC98831)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044172(gb WP_000622316)		0	0	0	0	0	0	0	0	0	0	0	0
VFG038395(gb WP_011705721)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045788(gb WP_001189322)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002172(gb WP_010710127)		0	0	0	0	119.139663	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049114(gb WP_012737527)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002186(gb WP_002387129)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)		0	0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000876(gb WP_000120946)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000861(gb WP_001045649)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048885(gb WP_014907227)	0.289602		0	0	0	0	0	0	0	0	0	0	0
VFG049148(gb WP_041168941)	0	0		0	0	0	0	0	0	0	0	0	0
VFG049120(gb WP_012737535)	0	0	0		0	0	0	0	0	0	0	0	0
VFG034866(gb WP_000900547)	0	0	0	0		0	0	0	0	0	0	0	0
VFG013346(gb WP_005693178)	0	0	0	0	0		0	0	0	0	0	0	0
VFG043206(gb WP_005164479)	0	0	0	0	0	0		0	0	0	0	0	0
VFG043212(gb WP_005168761)	0	0	0	0	0	0	0		0	0	0	0	0
VFG045794(gb WP_000992818)	0	0	0	0	0	0	0	0		0	0	0	0
VFG001855(gb WP_197535493)	0	0	0	0	0	0	0	0	0		0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
VFG000935(gb WP_001222189)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000884(gb WP_000654937)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050158(gb WP_000905916)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000908(gb WP_000860472)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000871		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002049(gb WP_001173470)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050163(gb WP_000197083)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000879(gb WP_000832235)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002196		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049133(gb WP_004177236)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049908(gb WP_001080148)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002415(gb WP_001131063)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000449(gb NP_459544)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000916(gb WP_001017192)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002358(gb WP_005164496)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002051(gb WP_001115126)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048980(gb WP_041937790)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013069(gb WP_005019013)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049915(gb WP_001142968)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005990(gb WP_000659582)		0	0	0	0	35.173493	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043209(gb WP_005168769)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034754(gb WP_000081129)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045473(gb AAM75250)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500)		0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
VFG049917		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005784(gb WP_001092618)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006034(gb WP_000064997)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047039(gb WP_003018140)	27.991559	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012333(gb WP_000703306)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045792(gb WP_000791650)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000886(gb WP_000261297)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000917(gb WP_000089583)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005299(gb WP_001233990)		0	0	0	0	37.376219	0	0	0	0	0	0	0	0
VFG002341(gb WP_005168813)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005894(gb WP_000262522)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034721(gb WP_000556298)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048985(gb WP_014907219)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005291(gb WP_000723812)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000367(gb WP_001286280)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000878(gb WP_000872015)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000872(gb WP_000044711)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002413(gb WP_000389022)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000919(gb WP_001095619)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001445(gb AAA92657)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002197(gb WP_002387027)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048808(gb WP_004899416)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005295(gb WP_000850672)		0	0	0	0	22.926586	0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000927(gb WP_000096764)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005289(gb WP_001868236)		0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21	
VFG005858(gb WP_000727597)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG042389(gb WP_000012013)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044331(gb WP_015874966)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG010906(gb WP_011213314)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000873		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002048(gb WP_000249362)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048478(gb WP_004147521)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227)		0	0	0	0	0	0	0	0	0	0	0	0	6.678896
VFG005280(gb WP_000815035)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038285(gb WP_005308483)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001379(gb NP_214867)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005930(gb WP_000591736)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049909(gb WP_001113715)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012339(gb WP_000237768)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000332(gb WP_005632797)		0	0	18.869471	0	0	0	0	0	0	0	0	0	0
VFG001443(gb AAF37887)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005918(gb WP_000181212)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001713(gb WP_001298062)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002047		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050289(gb WP_010934515)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038861(gb WP_005314296)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049147(gb WP_001217110)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000974(gb WP_010922711)		0	0	0	0	5.632344	0	0	0	0	0	0	0	0
VFG000883(gb WP_001239363)		0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G1	G10	G11	G12	G13	G14	G15	G16	G17	G18	G19	G2	G21
VFG002166(gb WP_010714416)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002179(gb AAD09858)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012501(gb WP_000271272)		0	0	0	0	0	0	0	0	0	0	0	0
BFI77837.1	44.920051	844.880789	223.946207	1267.015764	570.093253	147.956008	1263.560953	612.208168	829.209503	891.963967	411.133318	759.659	707.086324
XAZ16568.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA31156.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA28592.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA57870.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA30587.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA30727.1		0	0	0	0	0	0	0	0	0	0	0	5.371207
XAZ17659.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA29869.1		0	0	0	0	0	0	0	0	0	0	0	10.900484
pdb 2AVX A		0	0	0	0	0	0	0	0	0	0	0	0
XAZ17661.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA27749.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA27519.1		0	0	0	0	0	0	0	0	0	0	0	0
WP_305165386.1		0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1		0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B		0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1		0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A		0	0	0	0	49.213952	0	0	0	0	0	0	0
XBA29828.1		0	0	0	0	0	0	0	0	0	0	0	6.678896
XBA29568.1		0	0	0	0	0	0	0	0	0	0	0	3.965318
GH_sum	20819.57798	36995.12215	20563.83791	26422.68086	59424.33077	6431.204633	29439.67849	35613.42359	36657.90747	37659.52014	34184.79941	54128.5	36861.71314
CE_sum	1587.32411	1376.987154	30.727376	2451.560981	680.71397	400.590223	2294.13578	643.158927	2799.654208	1375.811645	0	1222.43	1271.857851
CBM_sum	9270.332924	3013.323147	1592.505873	10513.61316	3402.173179	263.910964	21979.58651	4405.283682	2375.476139	3723.684323	4565.261212	3811.87	3788.11909
GT_sum	11212.32236	10909.43321	4420.629837	9928.145621	24163.85455	1197.188902	9137.926468	14546.06714	9696.530243	12682.19011	14653.69733	11176.4	9847.635292
PL_sum		0	0	0	0	158.797351	127.914365	0	0	0	20.64215	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
evgS		0	0	0	0	0	0	0	0	0	0	0	0
sul2		0	0	0	0	0	0	0	0	0	0	0	0
Bado_rpoB_RIF		0	1330.70174	259.922558	0	2812.083212	2226.349016	0	4842.20116	1.459427	637.27981	0	1084.184054
msbA		0	0	0	0	0	0	0	0	0	0	0	0
Bbif_ileS_MUP		0	717.337348	475.855991	0	2595.208357	1689.551608	0	1896.278764	3.358146	1042.852494	0	789.448743
Spyo_ErmA_MLSb	14.485373	17.829638	0	0	2.53877	0	0	0	0	0	0	94.041794	0
AcrF		0	0	0	0	0	0	0	0	0	0	0	0
tet(A)		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)		0	0	0	0	0	0	0	0	0	0	0	0
mphC		0	0	0	0	0	0	0	5.268477	0	0	0	0
mdtG		0	0	0	0	0	0	0	0	0	0	0	0
rpoB2		0	0	0	0	0	0	198.662617	27.289644	0	0	0	391.76604
eptA		0	0	0	0	0	0	0	0	0	0	0	0
tet(M)		0	0	0	0	0	0	0	0	0	0	0	0
ugd		0	0	0	0	0	0	0	0	0	0	0	0
ErmF	18.381639	26.774359	10.544433	8.307096	2.773314	0	0	5.112423	0	1.364865	0	67.128986	3.423211
acrB		0	0	0	0	0	0	0	0	0	0	0	0
efrB		0	0	0	0	0	0	0	0	0	0	0	0
bacA		0	0	0	0	0	0	0	0	0	0	0	0
tet(O)		0	0	0	0	0	0	0	0	0	0	0	0
lsaC	47.914588	584.208004	34.689963	2117.659804	982.356136	442.163201	4.70308	1447.296617	11.999934	3632.698867	1908.5632	877.198362	2583.247171
Kpne_OmpK37		0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnE		0	0	0	0	0	0	0	0	0	0	0	0
Mrx		0	0	0	0	0	0	0	0	0	0	0	0
ArnT		0	0	0	0	0	0	0	0	0	0	0	0
qacEdelta1		0	0	0	0	0	0	0	0	0	0	0	0
ErmX		0	34.778711	172.284438	0	3.494722	0	0	0	0	0	74.919272	9.475726
Erm(35)		0	0	0	0	0	0	0	0	0	0	0	0
LptD		0	0	11.711748	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15	
norA		0	0	0	0	0	0	0	0	0	0	0	0	
mdtB		0	0	0	0	0	0	0	0	0	0	0	0	
emrA		0	0	0	0	0	0	0	0	0	0	0	0	
TEM-126		0	0	0	0	0	0	0	0	0	0	0	0	
mecA		0	0	0	0	0	0	0	30.242015	0	0	0	0	
emrR		0	0	0	0	0	0	0	0	0	0	0	0	
acrD		0	0	0	0	0	0	0	0	0	0	0	0	
PC1_blaZ		0	0	0	0	0	0	28.220869	3.396714	0	0	0	0	
CfxA6		0	0	30.962358	0	0	0	0	0	0	0	0	0	
floR		0	0	0	0	0	0	0	0	0	0	0	0	
mdtC		0	0	0	0	0	0	0	0	0	0	0	0	
mdtE		0	0	0	0	0	0	0	0	0	0	0	0	
AAC(6')-Ib7		0	0	0	0	0	0	0	0	0	0	0	0	
mdtH		0	0	0	0	0	0	0	0	0	0	0	0	
H-NS		0	0	0	0	0	0	0	0	0	0	0	0	
mreA		0	0	0	0	0	0	0	0	0	0	0	0	
kdpE		0	0	0	0	0	0	0	0	0	0	0	0	
ErmB	6.069245	14.12959	29.697052	331.772802		0	0	5.03059	0.117492	3.994046	332.714229	725.36156	53.176673	738.584427
marA		0	0	0	0	0	0	0	0	0	0	0	0	
qacA		0	37.623057	0	0	0	0	0	16.248713	0	0	0	0	
sdiA		0	0	0	0	0	0	0	0	0	0	0	0	
tet(W)		0	0	0	0	0	0	0	0	0	0	0	0	
mdtO		0	0	0	0	0	0	0	0	0	0	0	0	
rosB		0	0	0	0	0	0	0	0	0	0	0	0	
leuO		0	0	0	0	0	0	0	0	0	0	0	0	
mdtN		0	0	0	0	0	0	0	0	0	0	0	0	
eptB		0	0	0	0	0	0	0	0	0	0	0	0	
MdtK		0	0	0	0	0	0	0	0	0	0	0	0	
CfxA3	8.510425	17.335471	5.206621	4.429775	2.966497	0.56072		0	0.906038	0	0.551125	0	20.271085	1.666617

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
Saga_mprF		0	0	0	0	0	0	0	0	0	0	0	0
lnuC		0	88.387704	0	0	0	0	0	0	0	170.743851	0	93.372459
FosA6		0	0	0	0	0	0	0	0	0	0	0	0
mgrA		0	0	0	0	52.008154	0	0	0	0	0	0	0
emrK		0	0	0	0	0	0	0	0	0	0	0	0
cpxA		0	0	0	0	0	0	0	0	0	0	0	0
mel	4.250735	197.950791		0	0	489.41548	0	0	748.365796	0	420.506611	0	53.149935
dfrE		0	0	0	0	0	0	0	0	0	0	88.239831	0
catP		0	0	0	0	1.031455	374.813015	0	0	0	0	0	13.643098
AcrE		0	0	0	0	0	0	0	0	0	0	0	0
PmrF		0	0	0	0	0	0	0	0	0	0	0	0
YojI		0	0	0	0	0	0	0	0	0	0	0	0
Ecol_emrE		0	0	0	0	0	0	0	0	0	0	0	0
arnA		0	0	0	0	0	0	0	0	0	0	0	0
CTX-M-121		0	0	0	0	0	0	0	0	0	0	0	0
Ecol_acrA		0	0	0	0	0	0	0	0	0	0	0	0
mdtF		0	0	0	0	0	0	0	0	0	0	0	0
emrB		0	0	0	0	0	0	0	0	0	0	0	0
mdtA		0	0	0	0	0	0	0	0	0	0	0	0
sulI		0	0	0	0	0	0	0	0	0	0	0	0
AAC6_IeAPH2_Ia	28.986495		0	0	0	0	0	0	3.381256	0	0	0	51.686327
dfrF		0	0	0	0	0	0	0	0	0	0	0	0
Ecol_mdfA		0	0	0	0	0	0	0	0	0	0	0	0
emrY		0	0	0	0	0	0	0	0	0	0	0	0
ErmT		0	0	0	0	0	0	0	0	0	0	0	0
dfrA17		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/32/O)		0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia		0	0	0	0	0	0	0	0	0	0	0	0
EC-5		0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-IIIa		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
tet(Q)		0	0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	0	0	0	0	0	0	0
ThfT		0	0	0	0	0	0	0	0	0	0	0	0
TolC		0	0	0	0	0	0	0	0	0	0	0	0
CRP		0	0	0	0	0	0	0	0	0	0	0	0
rosA		0	0	0	0	0	0	0	0	0	0	0	0
rsmA		0	0	0	0	0	0	0	0	0	0	0	0
msrA		0	55.876604	0	0	0	0	45.800572	5.625942	0	0	0	0
aadA5		0	0	0	0	0	0	0	0	0	0	0	0
mdtP		0	0	0	0	0	0	0	0	0	0	0	0
smeE		0	0	0	0	0	0	0	0	0	0	0	0
OmpA		0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnH		0	0	0	0	0	0	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0	0
nimK	2.241841	4.091975	0.514587	0.291563	1.220412		0	0	0.601994	0	0.543606	0	6.197978
cmx		0	0	0	0	0	0	0	0	0	0	0	0
AcrS		0	0	0	0	0	0	0	0	0	0	0	0
gadW		0	0	0	0	0	0	0	0	0	0	0	0
tet(37)		0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	19936.27278	21360.07754	10248.04019	11571.312	34300.0249	33751.35274	44242.81872	38659.09273	45566.54509	24673.80836	28969.982	15341.29473	33291.22391
CE_sum	10.923268	470.962601	76.62411	1076.713391	2976.508398	3407.950953	1129.049361	1965.317607	928.158582	589.653763	1746.3219	1505.607174	1662.458309
CBM_sum	639.466354	8522.221702	2133.577711	7830.413039	13978.81763	20883.26226	2519.615423	19885.34282	4547.730191	12450.03699	19865.707	9686.069234	16441.94959
GT_sum	8393.052811	9750.811575	6072.876362	4636.782656	19327.23345	13046.48222	10297.97694	17078.02761	10005.86859	10723.04445	7943.2291	7129.374585	15352.15776
PL_sum		0	0	0	0	0	0	0	10.046929	0	0	0	0
VFG044326(gb WP_001327262)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045346(gb WP_011149697)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048621(gb WP_004213924)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001814(gb NP_215678)	174.720523	0	0	0	0	0	0	0	22.350696	0	0	0	46.387617
VFG005286(gb WP_000746885)		0	0	0	0	0	0	0	0	0	0	0	0
VFG046465(gb WP_003028672)		0	251.970434	1.504344	44.44484	3.272319	0	0.43362	11.781838	7.168256	0.507586	0	224.437367

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG050164(gb WP_000723250)		0	0	0	0	0	0	0	0	0	0	0	0
VFG037100(gb WP_010980745)	299.113241		0	0	0	0	0	0	0	0	0	0	0
VFG000932(gb WP_000026784)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001447(gb CAA50007)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049144(gb WP_002892069)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045349(gb WP_000092542)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000077(gb NP_465991)	145.44599	10.111101	55.817252	455.807928	0.605466	17.083068	5.618765	96.289718	11.146166	392.720949	864.17072	108.103852	1068.222627
VFG048990(gb WP_001741945)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000079(gb NP_463763)		0	169.244874	0	0	0	0	6.623708	80.191526	182.606812	0	240.831226	0
VFG000874(gb WP_000824100)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012095(gb WP_003435012)	117.449905	8.723813		0	0	633.247679	44.248652	0	135.087991	0	0	0	0
VFG000363(gb WP_002212775)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000930(gb WP_000077767)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002164(gb WP_002395058)		0	0	0	0	0	0	0	0	0	43.163772	0	0
VFG002182(gb WP_002376666)		0	42.918253	0	0	0	0	10.76041	42.058831	277.332355	0	0	0
VFG049160(gb WP_001327259)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044159(gb WP_000125846)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002356(gb WP_011816614)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002046(gb WP_000135089)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005966(gb WP_000578446)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012337(gb WP_001370792)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005775(gb WP_000403526)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002346(gb WP_005160438)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005790(gb WP_000033003)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049157(gb WP_014907259)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000875(gb WP_000066579)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048697(gb WP_015874721)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG002319(gb WP_005160341)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048797		0	0	0	0	0	0	0	0	0	0	0	0
VFG002190(gb WP_002362225)	331.357213	69.298892		0	0	0	0	0	0	0	0	0	0
VFG002307(gb NP_461452)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002322(gb WP_011816590)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005215(gb WP_000743858)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012343(gb WP_001234182)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000905(gb WP_001546261)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001359(gb WP_000733059)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050166(gb WP_000066003)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001405(gb NP_217219)		0	0	94.34835	0	0	0	4.408371	1.883737	275.018442	0	0	0
VFG002054(gb WP_000633233)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005978(gb WP_000686634)	23.150758	12.189706	0	0	0	2.232319	9.514392	73.836686	11.399594	0	0	0.867662	0
VFG049116(gb WP_012737528)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005486(gb WP_000417180)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005778(gb WP_000462410)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048643(gb WP_014907727)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005584(gb WP_000403400)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048830(gb WP_014907233)		0	9.095441	0	0	0	0	0	0	0	0	0	0
VFG048277(gb WP_009308599)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000928(gb WP_000640938)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001444(gb AAG10151)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048687(gb WP_002902160)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000888(gb WP_000723799)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005787(gb WP_000118217)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044332(gb WP_015874967)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000891(gb WP_000006208)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG000939(gb WP_001287497)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000881		0	0	0	0	0	0	0	0	0	0	0	0
VFG000475(gb NP_460201)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000907(gb WP_000376545)		0	0	0	0	0	0	0	0	0	0	0	0
VFG043504(gb WP_000671444)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049118(gb WP_012737529)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005197(gb WP_000006706)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044328(gb WP_015874963)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050160(gb WP_000030755)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002331(gb WP_026018001)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048257(gb WP_004174507)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048841(gb WP_014907232)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012505(gb WP_000933673)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049158(gb WP_001297937)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000923(gb WP_001034892)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002416(gb WP_001265657)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000889(gb WP_000113351)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012513(gb WP_001221122)		0	0	0	0	0	0	0	0	0	0	0	0
VFG006717(gb NP_465159)		0	0	0	0	0	0	0	0	0	0	362.667659	0
VFG043213		0	0	0	0	0	0	0	0	0	0	0	0
VFG012509(gb WP_001111200)		0	0	0	0	0	0	0	0	0	0	0	0
VFG038380(gb WP_043163044)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048771(gb WP_004190505)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044329(gb WP_015874964)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000477(gb NP_461845)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000964(gb WP_010922799)		0	88.211303	0	0	0	0	57.199428	0	0	0	0	0
VFG005781(gb WP_000650746)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000959(gb WP_010922232)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000924(gb WP_001234311)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050165(gb WP_001259305)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG013368(gb WP_005693225)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048972(gb WP_014907221)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006002(gb WP_000197412)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049149(gb WP_041169023)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005942(gb WP_000660895)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048348(gb WP_004149658)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000940(gb WP_001299620)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000906(gb WP_001142375)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034679	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002412(gb WP_000716386)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002055(gb WP_000097229)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000368(gb WP_000703040)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044165(gb WP_001041793)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049156(gb WP_077265119)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000362	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012327(gb WP_011076307)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002417(gb WP_001301550)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049150(gb WP_000982270)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000929(gb WP_001375021)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000331(gb WP_005693548)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000080(gb NP_464522)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050162(gb WP_001161829)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047708(gb WP_003022611)	0	0	0	0	0	0	0	0	0	413.852502	0	0	0
VFG050157(gb WP_001331698)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002338	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043626(gb WP_000820818)	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG043211(gb WP_032902679)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000937(gb WP_000750139)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044327(gb WP_000140406)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013286(gb WP_005694325)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049155(gb WP_000829570)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001795(gb BAC98831)	229.178271		0	0	0	0	0	0	0	0	0	0	0
VFG044172(gb WP_000622316)		0	0	0	0	0	0	0	0	0	0	0	0
VFG038395(gb WP_011705721)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045788(gb WP_001189322)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002172(gb WP_010710127)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049114(gb WP_012737527)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002186(gb WP_002387129)		0	0	0	0	0	0	34.714892		0	0	0	0
VFG048429(gb WP_004183353)		0	0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000876(gb WP_000120946)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000861(gb WP_001045649)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048885(gb WP_014907227)	6.627305	10.285994		0	0	0.770291	0	0	0.384897	0	0	0	7.131531
VFG049148(gb WP_041168941)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049120(gb WP_012737535)		0	0	0	0	0	0	0	0	0	0	0	0
VFG034866(gb WP_000900547)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013346(gb WP_005693178)		0	0	0	0	0	0	0	0	0	0	0	0
VFG043206(gb WP_005164479)		0	0	0	0	0	0	0	0	0	0	0	0
VFG043212(gb WP_005168761)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045794(gb WP_000992818)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001855(gb WP_197535493)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG000935(gb WP_001222189)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000884(gb WP_000654937)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050158(gb WP_000905916)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000908(gb WP_000860472)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000871		0	0	0	0	0	0	0	0	0	0	0	0
VFG002049(gb WP_001173470)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050163(gb WP_000197083)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000879(gb WP_000832235)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002196		0	0	0	0	0	0	0	10.046929	0	0	0	0
VFG049133(gb WP_004177236)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049908(gb WP_001080148)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002415(gb WP_001131063)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000449(gb NP_459544)		0	0	0	0	0	0	0	0	0	0	67.660592	0
VFG000916(gb WP_001017192)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002358(gb WP_005164496)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002051(gb WP_001115126)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048980(gb WP_041937790)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104)		0	0	0	0	0	0	0	0	0	0	91.446561	0
VFG048518(gb WP_012737617)		0	0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013069(gb WP_005019013)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049915(gb WP_001142968)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005990(gb WP_000659582)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533)		0	0	0	0	0	0	0	0	0	0	0	0
VFG043209(gb WP_005168769)		0	0	0	0	0	0	0	0	0	0	4.790958	0
VFG034754(gb WP_000081129)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045473(gb AAM75250)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500)	29.019247		0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG049917		0	0	0	0	0	0	0	0	0	0	0	0
VFG005784(gb WP_001092618)		0	0	0	0	0	0	0	0	0	0	0	0
VFG006034(gb WP_000064997)		0	0	0	0	0	0	0	0	0	0	0	0
VFG047039(gb WP_003018140)		0	0	0	0	0	0	0	99.224603	0	0	0	0
VFG012333(gb WP_000703306)		0	0	0	0	0	0	0	0	0	0	0	0
VFG045792(gb WP_000791650)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000886(gb WP_000261297)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000917(gb WP_000089583)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005299(gb WP_001233990)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002341(gb WP_005168813)		0	0	0	0	0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005894(gb WP_000262522)		0	0	0	0	0	0	0	0	0	0	0	0
VFG034721(gb WP_000556298)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048985(gb WP_014907219)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005291(gb WP_000723812)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000367(gb WP_001286280)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000878(gb WP_000872015)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000872(gb WP_000044711)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002413(gb WP_000389022)		0	0	0	36.329649	0	0	0	0	0	0	0	0
VFG000919(gb WP_001095619)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001445(gb AAA92657)		0	0	0	0	0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002197(gb WP_002387027)		0	0	0	0	0	0	0	12.114628	0	0	0	0
VFG048808(gb WP_004899416)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005295(gb WP_000850672)		0	0	0	0	0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000927(gb WP_000096764)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005289(gb WP_001868236)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG005858(gb WP_000727597)		0	0	0	0	0	0	0	0	0	0	0	0
VFG042389(gb WP_000012013)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539)		0	0	0	0	0	0	0	0	0	0	0	0
VFG044331(gb WP_015874966)		0	0	0	0	0	0	0	0	0	0	0	0
VFG010906(gb WP_011213314)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000873		0	0	0	0	0	0	0	0	0	0	0	0
VFG002048(gb WP_000249362)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048478(gb WP_004147521)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680)		0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005280(gb WP_000815035)		0	0	0	0	0	0	0	0	0	0	0	0
VFG038285(gb WP_005308483)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001379(gb NP_214867)		0	0	0	82.055212	0	0	0	0	0	0	0	0
VFG005930(gb WP_000591736)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049909(gb WP_001113715)		0	0	0	0	0	0	0	0	0	0	0	0
VFG012339(gb WP_000237768)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000332(gb WP_005632797)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001443(gb AAF37887)		0	0	0	0	0	0	0	0	0	0	0	0
VFG005918(gb WP_000181212)		0	0	0	0	0	0	0	0	0	0	0	0
VFG001713(gb WP_001298062)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002047		0	0	0	0	0	0	0	0	0	0	0	0
VFG050289(gb WP_010934515)		0	0	0	0	0	0	0	0	0	0	0	0
VFG038861(gb WP_005314296)		0	0	0	0	0	0	0	0	0	0	0	0
VFG049147(gb WP_001217110)		0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000974(gb WP_010922711)		0	0	0	0	0	0	0	0	0	0	0	0
VFG000883(gb WP_001239363)		0	0	0	0	0	0	0	0	0	0	0	0

Gene	G4	G5	G6	G7	G8	G9	H1	H10	H11	H12	H13	H14	H15
VFG002166(gb WP_010714416)	0	0	0	0	0	0	0	0	35.583648	0	0	0	0
VFG002179(gb AAD09858)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012501(gb WP_000271272)	0	0	0	0	0	0	0	0	0	0	0	0	0
BFI77837.1	650.967262	351.223646	69.442903	576.011831	680.560648	323.609648	893.427306	131.205332	796.544771	543.509864	1079.2414	125.963856	1369.386969
XAZ16568.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA31156.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA28592.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA57870.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA30587.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA30727.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17659.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29869.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 2AVX A	0	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17661.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA27749.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA27519.1	29.019247	0	0	0	0	0	0	0	0	0	0	0	0
WP_305165386.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B	0	0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A	0	50.939117	0	0	0	0	0	5.123729	0	0	0	0	0
XBA29828.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29568.1	0	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	19936.27278	21360.07754	10248.04019	11571.312	34300.0249	33751.35274	44242.81872	38659.09273	45566.54509	24673.80836	28969.982	15341.29473	33291.22391
CE_sum	10.923268	470.962601	76.62411	1076.713391	2976.508398	3407.950953	1129.049361	1965.317607	928.158582	589.653763	1746.3219	1505.607174	1662.458309
CBM_sum	639.466354	8522.221702	2133.577711	7830.413039	13978.81763	20883.26226	2519.615423	19885.34282	4547.730191	12450.03699	19865.707	9686.069234	16441.94959
GT_sum	8393.052811	9750.811575	6072.876362	4636.782656	19327.23345	13046.48222	10297.97694	17078.02761	10005.86859	10723.04445	7943.2291	7129.374585	15352.15776
PL_sum	0	0	0	0	0	0	0	10.046929	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
evgS	0	0	0	0	0	0	0	0	0	0	0	0	0
sul2	0	0	0	0	0	0	0	0	0	0	0	0	0
Bado_rpoB_RIF	209.14778	0.352661	0	0.034012	0	77.345089	0	0.820419	7.101518	0	41.205876	0	2986.627837
msbA	0	0	0	0	0	0	0	0	0	0	0	0	0
Bbif_ileS_MUP	0	0.759636	0	0.221989	0	3.551358	0	1.545062	0.674205	0	75.73105	2.985753	921.44849
Spyo_ErmA_MLSb	0	0	0	0	0	3.420899	2.804828	2.687944	2.485697	0	0	2.724598	0
AcrF	0	0	0	0	0	0	0	4.992506	0	0	0	0	0
tet(A)	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)	0	0	0	0	0	0	0	0	0	0	0	0	0
mphC	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtG	0	0	0	0	0	0	0	0	0	0	0	0	0
rpoB2	0	0	0	0	127.021466	0	0	0	0	0	0	0	0
eptA	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(M)	0	0	0	0	0	0	0	0	0	0	0	0	0
ugd	0	0	0	0	0	0	0	0	0	0	0	0	0
ErmF	0	0.428082	1.737274	0.447687	0	0.419335	3.380604	1.063483	6.01368	1.060098	0	0.336086	0
acrB	0	0	0	0	0	0	0	0	0	0	0	0	0
efrB	0	0	0	0	0	0	0	0	10.880978	0	0	0	0
bacA	0	0	0	0.386558	0	0	0	0	0	0	0	0	0
tet(O)	0	0	0	0	0	0	0	0	0	0	0	0	0
lsaC	82.37066	4.569545	0	0	0	0	7393.42368	1.757319	4.131015	0	3481.762993	0	2555.09446
Kpne_OmpK37	0	0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnE	0	0	0	0	0	0	0	0	0	0	0	0	0
Mrx	0	0	0	0	0	0	0	0	0	0	0	0	0
ArnT	0	0	0	0	0	0	0	0	0	0	0	0	0
qacEdelta1	0	0	0	0	0	0	0	0	0	0	0	0	0
ErmX	0	0	0	0	0	0	0	0	3.423146	15.87919	0	3.742552	0
Erm(35)	0	0	0	0	0	0	0	0	0	0	0	0	0
LptD	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28	
norA		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtB		0	0	0	0	0	0	0	0	0	0	0	0	0
emrA		0	0	0	0	0	0	0	0	0	0	0	0	0
TEM-126		0	0	0	0	0	0	0	0	0	0	0	0	0
mecA		0	0	0	0	0	0	0	0	0	0	0	0	0
emrR		0	0	0	0	0	0	0	0	0	0	0	0	0
acrD		0	0	0	0	0	0	0	0	0	0	0	0	0
PC1_blaZ		0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA6		0	0	0	0	0	0	0	0	0	0	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtC		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtE		0	0	0	0	0	0	0	0	0	0	0	0	0
AAC(6')-Ib7		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	0	0	0	0	0	0	0	0
H-NS		0	0	0	0	0	0	0	0	0	0	0	0	0
mreA		0	0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	0	0	0	0	0	0	0	0
ErmB	34.370586	1.054606	928.034165	0.227067		0	0	1054.769891	0.748099	7.934353	0.269699	587.164208	0.380353	1.48993
marA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
qacA	25.707392	0	0	0	0	0	0	0	0	0	0	0	0	0
sdiA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtO	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rosB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leuO	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
eptB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MdtK	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA3	1.109911	0	1.47192	0.238691		0	0	1.719262	1.048816	4.35221	0	0	0.266664	2.088622

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
Saga_mprF	0	0	0	0	0	0	0	0	0	0	0	0	0
lnuC	0	0	0	1.319728	0	0	0.751584	2.164473	0	0	506.045066	0	0
FosA6	0	0	0	0	0	0	0	0	0	0	0	0	0
mgrA	0	0	0	0	0	0	0	0	0	0	0	0	0
emrK	0	0	0	0	0	0	0	0	0	0	0	0	0
cpxA	0	0	0	0	0	0	0	0	0	0	0	0	0
mel	1.664666	0	0	0	0	0	1.359301	0	0	0	20.970071	0	3.133784
dfrE	0	0	0	0	0	0	0	0	0	0	0	0	0
catP	0	0	0	0	0	0	0.378335	0	0	0	0	0	0
AcrE	0	0	0	0	0	0	0	0	0	0	0	0	0
PmrF	0	0	0	0	0	0	0	0	0	0	0	0	0
YojI	0	0	0	0	0	0	0	0	0	0	0	0	0
Ecol_emrE	0	0	0	0	0	0	0	0	0	0	0	0	0
arnA	0	0	0	0	0	0	0	0	0	0	0	0	0
CTX-M-121	0	0	0	0	0	0	0	0	0	0	0	0	0
Ecol_acrA	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtF	0	0	0	0	0	0	0	0	0	0	0	0	0
emrB	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtA	0	0	0	0	0	0	0	0	0	0	0	0	0
sulI	0	0	0	0	0	0	0	50.30373	0	0	0	0	0
AAC6_Ie_APH2_Ia	0	2.147251	0	0	16.410196	0	3.791179	0	29.262087	0	0	0	0
dfrF	0	0	0	0	0	0	0	0	0	0	0	0	0
Ecol_mdfA	0	0	0	0	0	0	0	0	0	0	0	0	0
emrY	0	0	0	0	0	0	0	0	0	0	0	0	0
ErmT	0	0	0	0	0	1.58875	0	0	0	0	0	0	169.521354
dfrA17	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(O/32/O)	0	0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia	0	0	0	0	0	0	0	0	0	0	0	0	0
EC-5	0	0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
tet(Q)	0	0	0	0	0	0	0	0	0	0	0	0	0
gadX	0	0	0	0	0	0	0	0	0	0	0	0	0
ThfT	0	0	0	0	0	0	0	0	0	0	0	0	0
TolC	0	0	0	0	0	0	0	0	0	0	0	0	0
CRP	0	0	0	0	0	0	0	0	0	0	0	0	0
rosA	0	0	0	0	0	0	0	0	0	0	0	0	0
rsmA	0	0	0	0	0	0	0	0	0	0	0	0	0
msrA	0	0	0	0	0	0	0	0	0	0	0	0	0
aadA5	0	0	0	0	0	0	0	0	0	0	0	0	0
mdtP	0	0	0	0	0	0	0	0	0	0	0	0	0
smeE	0	0	0	0	0	0	0	0	0	0	0	0	0
OmpA	0	0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnH	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(L)	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(40)	0	0	0	0	0	0	0	0	0	0	0	0	0
nimK	0.2192	0.020876	0.11626	0.109941	0.156883	0.131365	0.340499	0.517858	1.145812	0.037241	0	0.210727	0.206212
cmx	0	0	13.24415	0	0	0	22.666074	0	0	0	0	0	0
AcrS	0	0	0	0	0	0	0	0	0	0	0	0	0
gadW	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(37)	0	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	24619.8355	36808.70084	30915.06418	39315.02761	30679.60834	44827.55509	29869.17313	39578.47605	41384.34156	42626.51858	34680.77588	49048.64214	20221.17242
CE_sum	1834.87847	1126.864095	2044.75426	2744.975648	1831.671241	2866.035381	1396.205356	1366.826903	1378.351505	525.081919	1678.424138	1367.057809	0
CBM_sum	3236.3605	2472.792919	11384.59088	1872.510351	1421.104367	5390.52236	25223.80259	3388.798641	3770.338282	1737.277259	14657.46388	4920.531854	5114.876911
GT_sum	5592.50839	11225.17489	8816.059602	11822.57854	8199.542809	11085.68062	19730.20341	13687.00281	15179.74866	7351.064601	8820.126041	12176.91652	9719.154968
PL_sum	0	0	0	0	0	0	0	0	0	0	0	18.554227	0
VFG044326(gb WP_001327262,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045346(gb WP_011149697,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048621(gb WP_004213924,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001814(gb NP_215678)	0	0	0	22.595625	0	0	39.908106	0	0	0	0	0	0
VFG005286(gb WP_000746885,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG046465(gb WP_003028672,	399.637804	2.012426	14.894351	0	0	0	18.361953	0	35.572734	12.493224	9.9662	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
VFG050164(gb WP_000723250)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG037100(gb WP_010980745)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000932(gb WP_000026784)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001447(gb CAA50007)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049144(gb WP_002892069)	0	0	0	0	0	0	0	4.992506	0	0	0	0	0
VFG045349(gb WP_000092542)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000077(gb NP_465991)	42.137656	0.582356	1224.335445	0.048709	0	0	1315.084241	0.481682	0	25.324249	682.287778	0.816572	0
VFG048990(gb WP_001741945)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000079(gb NP_463763)	0	0	0	0	0	0	14.103491	0	0	12.171224	0	0	1368.450774
VFG000874(gb WP_000824100)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012095(gb WP_003435012)	0	0	70.389878	0	0	0	0	0.10081	254.588668	18.86108	0	0	177.216542
VFG000363(gb WP_002212775)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000930(gb WP_000077767)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002164(gb WP_002395058)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002182(gb WP_002376666)	0	0	0	0	0	0	0.99461	4.054211	18.503767	0	10.621779	0	0
VFG049160(gb WP_001327259)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044159(gb WP_000125846)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002356(gb WP_011816614)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002046(gb WP_000135089)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005966(gb WP_000578446)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012337(gb WP_001370792)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005775(gb WP_000403526)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002346(gb WP_005160438)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005790(gb WP_000033003)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049157(gb WP_014907259)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000875(gb WP_000066579)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048697(gb WP_015874721)	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
VFG002319(gb WP_005160341	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048797	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002190(gb WP_002362225	0	0	70.523651	0	0	0	0	0	0	24.416928	0	0	0
VFG002307(gb NP_461452)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002322(gb WP_011816590	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005215(gb WP_000743858	0	0	0	0	0	6.603655	0	0	0	0	0	0	0
VFG012343(gb WP_001234182	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000905(gb WP_001546261	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001359(gb WP_000733059	0	0	0	0	0	0	0	0	2.747999	0	0	0	0
VFG050166(gb WP_000066003	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001405(gb NP_217219)	0	0	0	0.526586	0	7.171976	0	0	0	0	26.068404	0	284.433349
VFG002054(gb WP_000633233	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136	0	0	0	0	0	6.221408	0	0	0	0	0	0	0
VFG005978(gb WP_000686634	141.047896	780.653437	0	19.893506	4.292918	0	0	16.456031	18.405254	1.049623	236.866736	14.595448	4.195623
VFG049116(gb WP_012737528	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005486(gb WP_000417180	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005778(gb WP_000462410	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048643(gb WP_014907727	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005584(gb WP_000403400	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048830(gb WP_014907233	0	0	0	0	0	0	0	0	10.722591	0	0	0	0
VFG048277(gb WP_009308599	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000928(gb WP_000640938	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001444(gb AAG10151)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048687(gb WP_002902160	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000888(gb WP_000723799	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005787(gb WP_000118217	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044332(gb WP_015874967	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000891(gb WP_000006208	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28	
VFG000939(gb WP_001287497,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000881	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000907(gb WP_000376545,	256.507262	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043504(gb WP_000671444,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049118(gb WP_012737529,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005197(gb WP_000006706,	0	0	0	0	0	0	0	0	14.964776	0	0	0	0	0
VFG044328(gb WP_015874963,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050160(gb WP_000030755,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002331(gb WP_026018001,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048257(gb WP_004174507,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048841(gb WP_014907232,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012505(gb WP_000933673,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049158(gb WP_001297937,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000923(gb WP_001034892,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002416(gb WP_001265657,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000889(gb WP_000113351,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012513(gb WP_001221122,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006717(gb NP_465159)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043213	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012509(gb WP_001111200,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038380(gb WP_043163044,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048771(gb WP_004190505,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044329(gb WP_015874964,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000477(gb NP_461845)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000964(gb WP_010922799,	0	0	0	28.266054	0	0	0	0	86.173628	0	10.748478	0	0	0
VFG005781(gb WP_000650746,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000959(gb WP_010922232,	0	0	0	0	0	0	0	0	62.359416	0	0	0	0	0
VFG000924(gb WP_001234311,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050165(gb WP_001259305,	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28	
VFG013368(gb WP_005693225	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048972(gb WP_014907221	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006002(gb WP_000197412	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049149(gb WP_041169023	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005942(gb WP_000660895	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048348(gb WP_004149658	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000940(gb WP_001299620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000906(gb WP_001142375	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034679	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002412(gb WP_000716386	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002055(gb WP_000097229	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000368(gb WP_000703040	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044165(gb WP_001041793	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049156(gb WP_077265119	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000362	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012327(gb WP_011076307	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002417(gb WP_001301550	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049150(gb WP_000982270	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000929(gb WP_001375021	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000331(gb WP_005693548	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000080(gb NP_464522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050162(gb WP_001161829	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047708(gb WP_003022611	0	0	0	0	0	0	0	0	0	0	0	0	0	565.008064
VFG050157(gb WP_001331698	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002338	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043626(gb WP_000820818	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28	
VFG043211(gb WP_032902679)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000937(gb WP_000750139)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044327(gb WP_000140406)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013286(gb WP_005694325)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049155(gb WP_000829570)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001795(gb BAC98831)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044172(gb WP_000622316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038395(gb WP_011705721)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045788(gb WP_001189322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002172(gb WP_010710127)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049114(gb WP_012737527)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002186(gb WP_002387129)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000876(gb WP_000120946)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000861(gb WP_001045649)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048885(gb WP_014907227)	0	0.164505	0	0.24798	1.237663	0	0.705146	0	2.260363	0	0	0	0	0
VFG049148(gb WP_041168941)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049120(gb WP_012737535)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034866(gb WP_000900547)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013346(gb WP_005693178)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043206(gb WP_005164479)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043212(gb WP_005168761)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045794(gb WP_000992818)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001855(gb WP_197535493)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28	
VFG000935(gb WP_001222189,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000884(gb WP_000654937,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050158(gb WP_000905916,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000908(gb WP_000860472,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000871	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002049(gb WP_001173470,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050163(gb WP_000197083,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000879(gb WP_000832235,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002196	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049133(gb WP_004177236,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049908(gb WP_001080148,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002415(gb WP_001131063,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000449(gb NP_459544)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000916(gb WP_001017192,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002358(gb WP_005164496,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002051(gb WP_001115126,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048980(gb WP_041937790,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013069(gb WP_005019013,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049915(gb WP_001142968,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005990(gb WP_000659582,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043209(gb WP_005168769,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034754(gb WP_000081129,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045473(gb AAM75250)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500,	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
VFG049917	0	0	0	25.726619		0	0	0	0	0	0	0	0
VFG005784(gb WP_001092618	0	0	0	0		0	0	0	0	0	0	0	0
VFG006034(gb WP_000064997	0	0	0	0		0	0	0	0	0	0	0	0
VFG047039(gb WP_003018140	0	0	0	0		0	38.979551	3.767677	0	9.851974	0	0	0
VFG012333(gb WP_000703306	0	0	0	0		0	0	0	0	0	0	0	0
VFG045792(gb WP_000791650	0	0	0	0		0	0	0	0	0	0	0	0
VFG000886(gb WP_000261297	0	0	0	0		0	0	0	0	0	0	0	0
VFG000917(gb WP_000089583	0	0	0	0		0	0	0	0	0	0	0	0
VFG005299(gb WP_001233990	0	0	0	0		0	0	0	0	0	0	0	0
VFG002341(gb WP_005168813	0	0	0	0		0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385	0	0	0	0		0	0	0	0	10.990262	0	0	0
VFG000474(gb NP_460200)	0	0	0	0		0	0	0	0	0	0	0	0
VFG005894(gb WP_000262522	0	0	0	0		0	6.279828	0	0	0	0	0	0
VFG034721(gb WP_000556298	0	0	0	0		0	0	0	0	0	0	0	0
VFG048985(gb WP_014907219	0	0	0	0		0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459	0	0	0	0		0	0	0	0	0	0	0	0
VFG005291(gb WP_000723812	0	0	0	0		0	0	0	0	0	0	0	0
VFG000367(gb WP_001286280	0	0	0	0		0	0	0	0	0	0	0	0
VFG000878(gb WP_000872015	0	0	0	0		0	0	0	0	0	0	0	0
VFG000872(gb WP_000044711	0	0	0	0		0	0	0	0	0	0	0	0
VFG002413(gb WP_000389022	0	0	0	0		0	0	0	0	0	0	0	0
VFG000919(gb WP_001095619	0	0	0	0		0	0	0	0	0	0	0	0
VFG001445(gb AAA92657)	0	0	0	0		0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084	0	0	0	0		0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289	0	0	0	0		0	0	0	0	0	0	0	0
VFG002197(gb WP_002387027	0	0	0	0		0	0	0	0	0	0	0	0
VFG048808(gb WP_004899416	0	0	0	0		0	0	0	0	0	0	0	0
VFG005295(gb WP_000850672	0	0	0	0		0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260	0	0	0	0		0	0	0	0	0	0	0	0
VFG000927(gb WP_000096764	0	0	0	0		0	0	0	0	0	0	0	0
VFG005289(gb WP_001868236	0	0	0	0		0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
VFG005858(gb WP_000727597,	0	0	0	0	0	8.251287	0	0	0	0	0	0	0
VFG042389(gb WP_000012013,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044331(gb WP_015874966,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG010906(gb WP_011213314,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000873	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002048(gb WP_000249362,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048478(gb WP_004147521,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005280(gb WP_000815035,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038285(gb WP_005308483,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001379(gb NP_214867)	0	0	0	0	0	0	15.563742	0	13.456144	0	0	0	0
VFG005930(gb WP_000591736,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197,	0	0	0	0	0	8.532003	0	0	0	0	0	0	0
VFG049909(gb WP_001113715,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012339(gb WP_000237768,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000332(gb WP_005632797,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001443(gb AAF37887)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005918(gb WP_000181212,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001713(gb WP_001298062,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002047	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050289(gb WP_010934515,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038861(gb WP_005314296,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049147(gb WP_001217110,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000974(gb WP_010922711,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000883(gb WP_001239363,	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H16	H17	H18	H19	H2	H20	H21	H22	H23	H25	H26	H27	H28
VFG002166(gb WP_010714416	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002179(gb AAD09858)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012501(gb WP_000271272	0	0	0	0	0	0	0	0	0	0	0	0	0
BFI77837.1	529.037519	874.052032	1420.674503	941.4561	989.019281	915.375863	1705.571686	842.711265	1115.483536	856.519293	1179.608217	955.205124	163.341202
XAZ16568.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA31156.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA28592.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA57870.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA30587.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA30727.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17659.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29869.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 2AVX A	0	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17661.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA27749.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA27519.1	0	0	0	0	0	0	0	0	0	0	0	0	0
WP_305165386.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B	0	0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29828.1	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29568.1	0	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	24619.8355	36808.70084	30915.06418	39315.02761	30679.60834	44827.55509	29869.17313	39578.47605	41384.34156	42626.51858	34680.77588	49048.64214	20221.17242
CE_sum	1834.87847	1126.864095	2044.75426	2744.975648	1831.671241	2866.035381	1396.205356	1366.826903	1378.351505	525.081919	1678.424138	1367.057809	0
CBM_sum	3236.3605	2472.792919	11384.59088	1872.510351	1421.104367	5390.52236	25223.80259	3388.798641	3770.338282	1737.277259	14657.46388	4920.531854	5114.876911
GT_sum	5592.50839	11225.17489	8816.059602	11822.57854	8199.542809	11085.68062	19730.20341	13687.00281	15179.74866	7351.064601	8820.126041	12176.91652	9719.154968
PL_sum	0	0	0	0	0	0	0	0	0	0	0	18.554227	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4
evgS		0	0	0	0	0	0	0	0	8.73859	0	0	0
sul2		0	0	0	0	0	0	0	0	0	0	0	0
Bado_rpoB_RIF	32.084499	1.384391	0.800601	32.649308		0	4.838867	0.635744	0	83.339483	0	0	1188.360184
msbA		0	0	0	0	0	0	0	0	0	0	0	0
Bbif_ileS_MUP		0	0	0	20.87099	0	1.466379	8.164335	0	145.321051	0	0	1122.96963
Spyo_ErmA_MLSb		0	0	0	0	21.873449	0	1030.954488	0	707.260377	0	0	1.163574
AcrF		0	0	0	0	0	0	0	0	0	0	0	0
tet(A)		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)		0	0	0	0	0	0	0	0	0	0	0	0
mphC	90.702756	0	0	0	0	0	0	0	0	0	0	0	0
mdtG		0	0	0	0	0	0	0	0	0	0	0	0
rpoB2		0	0	0	0	0	0	0	0	57.369677	0	0	0
eptA		0	0	0	0	0	0	0	0	16.513499	0	0	0
tet(M)		0	0	0	0	0	0	0	0	0	0	0	0
ugd		0	0	0	0	0	0	0	0	27.743807	0	0	0
ErmF	3.865261	0	0.322293	37.498726	160.287297	8.668619	0	0	0.205162	0	0	0.646509	0.401342
acrB		0	0	0	0	0	0	0	0	34.491326	0	0	0
efrB		0	0	0	0	0	0	0	0	7.400422	0	0	0
bacA		0	0	0	0	0	0	0	0	6.323108	0	0	0
tet(O)		0	0	0	0	0	0	0	0	0	0	0	0
lsaC	6163.471245	2716.8953	5430.4371	2238.491949	2413.460588	0	1262.268112	4965.702273	32.326188	3071.271135	2235.565358	3361.057652	4.889204
Kpne_OmpK37		0	0	0	0	0	0	0	0	10.787808	0	0	0
Kpne_KpnE		0	0	0	0	0	0	0	0	18.308294	0	0	0
Mrx		0	0	0	0	0	0	0	0	0	0	0	0
ArnT		0	0	0	0	0	0	0	4.153046	5.188641	0	0	0
qacEdelta1		0	0	0	0	0	0	0	0	0	0	0	0
ErmX		0	0	0	0	0	10.960915	0	0	0	0	0	25.654051
Erm(35)		0	0	0	0	0	0	0	0	0	0	0	0
LptD		0	0	0	0	0	0	0	0	16.580545	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
norA		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtB		0	0	0	0	0	0	0	0	28.47766	0	0	0	0
emrA		0	0	0	0	0	0	0	0	0	0	0	0	0
TEM-126		0	0	0	0	0	0	0	0	0	0	0	0.966553	0
mecA		0	0	0	0	0	0	0	0	0	0	0	21.085221	0
emrR		0	0	0	0	0	0	0	0	19.002818	0	0	0	0
acrD		0	0	0	0	0	0	0	0	10.116973	0	0	0	0
PC1_blaZ		0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA6		0	0	23.888161	44.441632	0	72.873319	0	0	0	0	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtC		0	0	0	0	0	0	0	27.420855	101.640212	0	0	0	0
mdtE		0	0	0	0	0	0	0	0	0	0	0	0	0
AAC(6')-Ib7		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	0	0	0	4.13837	0	0	0	0
H-NS		0	0	0	0	0	0	0	0	7.080074	0	0	0	0
mreA		0	0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	0	0	0	29.959298	0	0	0	0
ErmB	800.33084	550.19824	963.849472	192.101724	223.860851	951.609787	778.398397	1009.20337	1.161101	901.080031	333.084428	171.539137	6.20819	
marA		0	0	0	0	0	20.52224	0	0	0	0	0	0	0
qacA		0	0	0	0	0	0	0	0	0	0	0	7.90891	0
sdiA		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(W)		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtO		0	0	0	0	0	0	0	0	3.424091	0	0	0	0
rosB		0	0	0	0	0	0	0	0	0	0	0	0	0
leuO		0	0	0	0	0	0	0	0	9.298906	0	0	0	0
mdtN		0	0	0	0	0	0	0	0	20.934057	0	0	0	0
eptB		0	0	0	0	0	0	0	0	7.61127	0	0	0	0
MdtK		0	0	0	0	0	0	0	0	0	0	0	0	0
CfxA3	2.493008	0	0.255672	3.064758	2.083919	3.089834	0	0	0	0.309662	0.139965	0.616374	0	

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4
Saga_mprF		0	0	0	0	0	0	0	0	0	0	0	0
lnuC	231.948991	1.763015	4.232275		0	0	0	0	0	4.046231	0	0	1.401579
FosA6		0	0	0	0	0	0	0	0	0	0	0	0
mgrA		0	0	0	0	0	0	0	0	0	0	0	0
emrK		0	0	0	0	0	0	0	0	10.121299	0	0	0
cpxA		0	0	0	0	0	0	0	0	40.619755	0	0	0
mel		0	0	0	1.530662	0	0	0	0.775862	0	0	0	35.211411
dfrE		0	0	0	0	0	0	0	0	0	0	0	0
catP		0	0	0	0	0	0	0	0	0	0	0	0
AcrE		0	0	0	0	0	0	0	0	2.585208	0	0	0
PmrF		0	0	0	0	0	0	0	0	52.307117	0	0	0
YojI		0	0	0	0	0	0	0	0	0	0	0	0
EcoI_emrE		0	0	0	0	0	0	0	0	0	0	0	0
arnA		0	0	0	0	0	0	0	0	0	0	0	0
CTX-M-121		0	0	0	0	0	0	0	0	0	0	0	0
EcoI_acrA		0	0	0	0	0	0	0	0	0	0	0	0
mdtF		0	0	0	0	0	0	0	0	3.193331	0	0	0
emrB		0	0	0	0	0	0	0	0	4.885226	0	0	0
mdtA		0	0	0	0	0	0	0	0	18.525254	0	0	0
sulI		0	0	0	0	0	0	0	0	0	0	0	0
AAC6_IeAPH2_Ia	17.756051	0	0	0	0	0	0	0	0	0	0	0	0
dfrF		0	0	0	0	0	0	0	0	0	0	0	0
EcoI_mdfA		0	0	0	0	0	0	0	0	8.820909	0	0	0
emrY		0	0	0	0	0	0	0	0	2.146112	0	0	0
ErmT		0	3.043868	0	0	0	0	0	0	0.777859	0	0	0
dfrA17		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/32/O)		0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia		0	0	0	0	0	0	0	0	0	0	0	0
EC-5		0	0	0	0	0	0	0	0	2.736223	0	0	0
APH(3')-IIIa		0	0	0	0	0	0	0	0	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
tet(Q)		0	0	0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	0	0	0	2.636134	0	0	0	0
ThfT		0	0	0	0	0	0	0	0	4.704421	0	0	0	0
TolC		0	0	0	0	0	0	0	0	2.568521	0	0	0	0
CRP		0	0	0	0	0	0	0	0	4.314495	0	0	0	0
rosA		0	0	0	0	0	0	0	0	0	0	0	0	0
rsmA		0	0	0	0	0	0	0	0	2.223928	0	0	0	0
msrA		0	0	0	0	0	0	0	0	0	0	0	0	0
aadA5		0	0	0	0	0	0	0	0	0	0	0	0	0
mdtP		0	0	0	0	0	0	0	0	6.199958	0	0	0	0
smeE		0	0	0	0	0	0	0	0	0	0	0	0	0
OmpA		0	0	0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnH		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0	0	0
nimK	0.492187	0	0.050481	1.009187	1.232239	0.610014	0	0.050922	0.032129	0.061194	0	0.033164	0.042928	
cmx	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AcrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gadW	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(37)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	29006.7216	36046.26	42672.73036	21250.83723	13074.37149	32213.00209	30168.21781	40882.01919	20710.88639	28011.15275	43293.13511	22728.39247	61034.57637	
CE_sum	1455.515241	2398.7014	831.741301	1102.800047	963.35333	1626.441581	2142.597919	1346.820559	2324.930906	2085.948276	1266.870188	2048.355466	1387.462424	
CBM_sum	18384.42573	11642.094	21683.06485	14286.74211	4976.238739	14222.50118	12643.06373	22234.08768	6804.286043	11888.99633	7584.135913	14418.55503	6534.682377	
GT_sum	7740.189889	11235.31	12423.08393	8700.7746	6015.345462	7537.127526	10672.96462	14743.04859	12708.24012	11827.6354	11694.98066	11639.14103	10594.02047	
PL_sum	0	0	18.712351	0	0	215.481575	0	0	27.999914	0	0	0	0	0
VFG044326(gb WP_001327262,	0	0	0	0	0	0	0	0	18.941733	0	0	0	0	0
VFG045346(gb WP_011149697,	0	0	0	0	0	0	0	0	7.002933	0	0	0	0	0
VFG048621(gb WP_004213924,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001814(gb NP_215678)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005286(gb WP_000746885,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG046465(gb WP_003028672,	1.530488	7.27498	0	1.180368	0	18.988453	0.999321	0	749.330575	0	2.736985	67.388087	4.3777	

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG050164(gb WP_000723250)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG037100(gb WP_010980745)		0	0	0	0	0	0	45.588758	0	0	0	0	0	0
VFG000932(gb WP_000026784)		0	0	0	0	0	5.243834	0	0	1.105202	0	0	0	0
VFG001447(gb CAA50007)		0	0	0	0	0	0	0	0	4.94879	0	0	0	0
VFG049144(gb WP_002892069)		0	0	0	0	0	0	0	0	34.491326	0	0	0	0
VFG045349(gb WP_000092542)		0	0	0	0	0	0	0	0	11.249974	0	0	0	0
VFG000077(gb NP_465991)	919.535816	685.88975	1223.47699	767.74858	297.037983	1033.651942	1140.563945	1243.051332	0	1085.524665	961.307282	603.918865	6.791059	
VFG048990(gb WP_001741945)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000079(gb NP_463763)		0	0	0	0	0	0	0	0	0	0	38.903328	41.799687	
VFG000874(gb WP_000824100)		0	0	0	0	0	0	0	0	3.780216	0	0	0	0
VFG012095(gb WP_003435012)	0	23.859196	45.30908	0	191.220579	0	0	0	0	1.840253	0	623.985952	16.867242	0
VFG000363(gb WP_002212775)		0	0	0	0	0	0	0	0	2.980395	0	0	0	0
VFG000930(gb WP_000077767)		0	0	0	0	0	0	0	0	43.541134	0	0	0	0
VFG002164(gb WP_002395058)		0	0	0	239.518837	0	0	0	0	0	0	0	0	0
VFG002182(gb WP_002376666)	0	12.579952	32.784403	0	0	0	0	48.20789	0	0	468.618394	4.941585	17.034911	
VFG049160(gb WP_001327259)		0	0	0	0	0	0	0	0	7.670291	0	0	0	0
VFG044159(gb WP_000125846)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002356(gb WP_011816614)		0	0	0	0	0	0	0	0	24.329338	0	0	0	0
VFG002046(gb WP_000135089)		0	0	0	0	0	0	0	0	5.325631	0	0	0	0
VFG005966(gb WP_000578446)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012337(gb WP_001370792)		0	0	0	0	0	0	0	0	16.547385	0	0	0	0
VFG005775(gb WP_000403526)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260)		0	0	0	0	0	0	0	0	6.142793	0	0	0	0
VFG002346(gb WP_005160438)		0	0	0	0	0	0	0	0	12.962479	0	0	0	0
VFG005790(gb WP_000033003)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049157(gb WP_014907259)		0	0	0	0	0	0	0	0	43.242073	0	0	0	0
VFG000875(gb WP_000066579)		0	0	0	0	0	0	0	0	10.370707	0	0	0	0
VFG048697(gb WP_015874721)		0	0	0	0	0	0	0	0	34.329698	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG002319(gb WP_005160341		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048797		0	0	0	0	0	0	0	0	27.743807	0	0	0	0
VFG002190(gb WP_002362225		0	0	0	0	0	0	0	0	0	0	0	5.439918	0
VFG002307(gb NP_461452)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002322(gb WP_011816590		0	0	0	0	0	0	0	0	15.133473	0	0	0	0
VFG005215(gb WP_000743858		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012343(gb WP_001234182		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000905(gb WP_001546261		0	0	0	0	0	0	0	0	1.793032	0	0	0	0
VFG001359(gb WP_000733059		0	0	0	20.798305	0	0	0	0	5.562483	0	0	0	0
VFG050166(gb WP_000066003		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001405(gb NP_217219)		0	0	0	0	0	3.124931	0	0	0	0	0	8.944336	0
VFG002054(gb WP_000633233		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005978(gb WP_000686634		0	236.60996	16.963231	0	0	0	0	0	0	0	0	0	14.811711
VFG049116(gb WP_012737528		0	0	0	0	0	0	0	0	35.778507	0	0	0	0
VFG005486(gb WP_000417180		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005778(gb WP_000462410		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048643(gb WP_014907727		0	0	0	0	0	0	0	0	25.262882	0	0	0	0
VFG005584(gb WP_000403400		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048830(gb WP_014907233		0	0	0	0	0	0	0	0	7.325286	0	0	0	0
VFG048277(gb WP_009308599		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000928(gb WP_000640938		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001444(gb AAG10151)		0	0	0	0	0	0	0	0	7.808391	0	0	0	0
VFG048687(gb WP_002902160		0	0	0	0	0	0	0	0	2.542784	0	0	0	0
VFG000888(gb WP_000723799		0	0	0	0	0	0	0	0	7.670291	0	0	0	0
VFG005787(gb WP_000118217		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044332(gb WP_015874967		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000891(gb WP_000006208		0	0	0	0	0	0	0	0	6.869881	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG000939(gb WP_001287497,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000881	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000907(gb WP_000376545,	0	0	0	0	0	0	0	0	0	4.67357	0	0	0	0
VFG043504(gb WP_000671444,	0	0	0	0	0	0	0	0	0	0	0	10.646697	4.604621	0
VFG049118(gb WP_012737529,	0	0	0	0	0	0	0	0	0	3.067341	0	0	0	0
VFG005197(gb WP_000006706,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044328(gb WP_015874963,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050160(gb WP_000030755,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002331(gb WP_026018001,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048257(gb WP_004174507,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641,	0	0	0	0	0	0	0	0	0	26.386619	0	0	0	0
VFG048841(gb WP_014907232,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012505(gb WP_000933673,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049158(gb WP_001297937,	0	0	0	0	0	0	0	0	0	52.19634	0	0	0	0
VFG000923(gb WP_001034892,	0	0	0	0	0	0	0	0	0	63.797742	0	0	0	0
VFG002416(gb WP_001265657,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000889(gb WP_000113351,	0	0	0	0	0	0	0	0	0	7.833559	0	0	0	0
VFG012513(gb WP_001221122,	0	0	0	0	0	0	0	0	0	41.262601	0	0	0	0
VFG006717(gb NP_465159)	0	0	0	0	0	0	0	0	0	0	0	0	19.091603	0
VFG043213	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012509(gb WP_001111200,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038380(gb WP_043163044,	0	0	0	0	0	0	0	0	0	21.978006	0	0	0	0
VFG048771(gb WP_004190505,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044329(gb WP_015874964,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000477(gb NP_461845)	0	0	0	0	0	0	0	0	0	37.76226	0	0	0	0
VFG000964(gb WP_010922799,	0	0	0	0	0	0	0	0	0	3.119341	0	0	0	0
VFG005781(gb WP_000650746,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000959(gb WP_010922232,	0	0	0	0	0	0	0	0	0	47.846809	0	0	0	0
VFG000924(gb WP_001234311,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050165(gb WP_001259305,	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG013368(gb WP_005693225)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968)	0	0	0	0	0	0	0	0	0	61.029418	0	0	0	0
VFG048972(gb WP_014907221)	0	0	0	0	0	0	0	0	0	3.017046	0	0	0	0
VFG006002(gb WP_000197412)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	0	0	0	0	0	0	0	6.277746	0
VFG049149(gb WP_041169023)	0	0	0	0	0	0	0	0	0	12.956479	0	0	0	0
VFG005942(gb WP_000660895)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048348(gb WP_004149658)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955)	0	0	0	0	0	0	0	0	0	1.531917	0	0	0	0
VFG000940(gb WP_001299620)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000906(gb WP_001142375)	0	0	0	0	0	0	0	0	0	4.907543	0	0	0	0
VFG034679	0	0	0	0	0	0	0	0	0	4.261161	0	0	0	0
VFG002412(gb WP_000716386)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002055(gb WP_000097229)	0	0	0	0	0	0	0	0	0	9.41033	0	0	0	0
VFG000368(gb WP_000703040)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044165(gb WP_001041793)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049156(gb WP_077265119)	0	0	0	0	0	0	0	0	0	38.554916	0	0	0	0
VFG000362	0	0	0	0	0	0	0	0	0	45.16726	0	0	0	0
VFG012327(gb WP_011076307)	0	0	0	0	0	0	0	0	0	18.295085	0	0	0	0
VFG002417(gb WP_001301550)	0	0	0	0	0	0	0	0	0	8.183336	0	0	0	0
VFG049150(gb WP_000982270)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000929(gb WP_001375021)	0	0	0	0	0	0	0	0	0	7.21896	0	0	0	0
VFG000331(gb WP_005693548)	0	0	0	0	0	0	0	0	0	7.609284	0	0	0	0
VFG000080(gb NP_464522)	0	0	0	0	0	0	0	0	0	0	0	0	0	70.397337
VFG049154(gb WP_014907257)	0	0	0	0	0	0	0	0	0	155.426136	0	0	0	0
VFG050162(gb WP_001161829)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047708(gb WP_003022611)	0	0	0	0	0	0	0	0	0	5.212485	0	0	0	0
VFG050157(gb WP_001331698)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002338	0	0	0	0	0	0	0	0	0	5.060182	0	0	0	0
VFG043626(gb WP_000820818)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4
VFG043211(gb WP_032902679)	0	0	0	0	0	0	0	0	0	17.685769	0	0	0
VFG000937(gb WP_000750139)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)	0	0	0	0	0	0	0	0	0	2.757103	0	0	0
VFG044327(gb WP_000140406)	0	0	0	0	0	0	0	0	0	51.081729	0	0	0
VFG013286(gb WP_005694325)	0	0	0	0	0	0	0	0	0	38.561715	0	0	0
VFG049161(gb WP_001029878)	0	0	0	0	0	0	0	0	0	15.604127	0	0	0
VFG049155(gb WP_000829570)	0	0	0	0	0	0	0	0	0	5.902053	0	0	0
VFG001795(gb BAC98831)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044172(gb WP_000622316)	0	0	0	0	0	0	0	0	0	5.977014	0	0	0
VFG038395(gb WP_011705721)	0	0	0	0	0	0	0	0	0	4.478302	0	0	0
VFG045788(gb WP_001189322)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002172(gb WP_010710127)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049114(gb WP_012737527)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002186(gb WP_002387129)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000876(gb WP_000120946)	0	0	0	0	0	0	0	0	0	6.904392	0	0	0
VFG000861(gb WP_001045649)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048885(gb WP_014907227)	0	0	0	0.795522	0	0	0	0	0	0	0	0.087357	0
VFG049148(gb WP_041168941)	0	0	0	0	0	0	0	0	0	59.734842	0	0	0
VFG049120(gb WP_012737535)	0	0	0	0	0	0	0	0	0	6.893836	0	0	0
VFG034866(gb WP_000900547)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013346(gb WP_005693178)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043206(gb WP_005164479)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043212(gb WP_005168761)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045794(gb WP_000992818)	0	0	0	32.875789	0	0	0	0	0	5.403817	0	0	0
VFG001855(gb WP_197535493)	0	0	0	0	0	4.00767	0	0	0	5.067483	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG000935(gb WP_001222189,	0	0	0	0	0	0	0	0	0	36.098793	0	0	0	0
VFG000884(gb WP_000654937,	0	0	0	0	0	0	0	0	0	16.181789	0	0	0	0
VFG050158(gb WP_000905916,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000908(gb WP_000860472,	0	0	0	0	0	0	0	0	0	8.663129	0	0	0	0
VFG000871	0	0	0	0	0	0	0	0	0	23.131404	0	0	0	0
VFG002049(gb WP_001173470,	0	0	0	0	0	0	0	0	0	4.311703	0	0	0	0
VFG050163(gb WP_000197083,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000879(gb WP_000832235,	0	0	0	0	0	0	0	0	0	40.084029	0	0	0	0
VFG002196	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049133(gb WP_004177236,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049908(gb WP_001080148,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002415(gb WP_001131063,	0	0	0	0	0	0	0	0	0	19.20732	0	0	0	0
VFG000449(gb NP_459544)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000916(gb WP_001017192,	0	0	0	0	0	0	0	0	0	16.459808	0	0	0	0
VFG002358(gb WP_005164496,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002051(gb WP_001115126,	0	0	0	0	0	0	0	0	0	2.044754	0	0	0	0
VFG048980(gb WP_041937790,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013069(gb WP_005019013,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540,	0	0	0	0	0	0	0	0	0	23.185632	0	0	0	0
VFG049915(gb WP_001142968,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005990(gb WP_000659582,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533,	0	0	0	0	0	0	0	0	0	2.413539	0	0	0	0
VFG043209(gb WP_005168769,	0	0	0	0	0	0	0	0	0	28.967153	0	0	0	0
VFG034754(gb WP_000081129,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045473(gb AAM75250)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500,	0	0	0	0	0	0	0	0	0	39.163759	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG049917		0	0	0	0	0	0	0	87.702013	0	0	0	0	0
VFG005784(gb WP_001092618		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006034(gb WP_000064997		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047039(gb WP_003018140		0	0	0	208.86024	0	0	0	0	0	0	0	170.405807	0
VFG012333(gb WP_000703306		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045792(gb WP_000791650		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000886(gb WP_000261297		0	0	0	0	0	0	0	0	14.001095	0	0	0	0
VFG000917(gb WP_000089583		0	0	0	0	0	0	0	0	10.243605	0	0	0	0
VFG005299(gb WP_001233990		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002341(gb WP_005168813		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005894(gb WP_000262522		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034721(gb WP_000556298		0	0	0	0	0	0	0	0	6.195888	0	0	0	0
VFG048985(gb WP_014907219		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459		0	0	0	0	0	0	0	0	4.205971	0	0	0	0
VFG005291(gb WP_000723812		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000367(gb WP_001286280		0	0	0	0	0	0	0	0	12.472308	0	0	0	0
VFG000878(gb WP_000872015		0	0	0	0	0	0	0	0	10.156214	0	0	0	0
VFG000872(gb WP_000044711		0	0	0	0	0	0	0	0	8.871982	0	0	0	0
VFG002413(gb WP_000389022		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000919(gb WP_001095619		0	0	0	0	0	0	0	0	8.384387	0	0	0	0
VFG001445(gb AAA92657)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289		0	0	0	0	0	0	0	0	20.036071	0	0	0	0
VFG002197(gb WP_002387027		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048808(gb WP_004899416		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005295(gb WP_000850672		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260		0	0	0	0	0	0	0	0	15.133473	0	0	0	0
VFG000927(gb WP_000096764		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005289(gb WP_001868236		0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG005858(gb WP_000727597,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG042389(gb WP_000012013,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044331(gb WP_015874966,		0	0	0	0	0	0	0	0	5.4741	0	0	0	0
VFG010906(gb WP_011213314,		0	0	0	0	0	0	0	0	2.223928	0	0	0	0
VFG000873		0	0	0	0	0	0	0	0	15.057247	0	0	0	0
VFG002048(gb WP_000249362,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048478(gb WP_004147521,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227,		0	0	0	0	0	0	0	0	2.780539	0	0	0	0
VFG005280(gb WP_000815035,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038285(gb WP_005308483,		0	0	0	0	0	0	0	0	2.287873	0	0	0	0
VFG001379(gb NP_214867)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005930(gb WP_000591736,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049909(gb WP_001113715,		0	0	0	0	0	0	0	0	7.530278	0	0	0	0
VFG012339(gb WP_000237768,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000332(gb WP_005632797,		0	0	0	4.322783	0	0	0	0	1.387519	0	0	0	0
VFG001443(gb AAF37887)		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005918(gb WP_000181212,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001713(gb WP_001298062,		0	0	0	0	0	0	0	0	15.000911	0	0	0	0
VFG002047		0	0	0	0	0	0	0	0	5.026529	0	0	0	0
VFG050289(gb WP_010934515,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038861(gb WP_005314296,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049147(gb WP_001217110,	165.908126		0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000974(gb WP_010922711,		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000883(gb WP_001239363,		0	0	0	0	0	0	0	0	3.010875	0	0	0	0

Gene	H29	H3	H30	H31	H32	H33	H34	H35	H36	H37	H38	H39	H4	
VFG002166(gb WP_010714416		0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002179(gb AAD09858)		0	0	0	0	0	0	0	0	30.845295	0	0	0	0
VFG000926(gb WP_001443194		0	0	0	0	0	0	0	0	1.798654	0	0	0	0
VFG012501(gb WP_000271272		0	0	0	0	0	0	0	0	50.711593	0	0	0	0
BFI77837.1	1193.83888	1129.2652	1535.71149	981.877229	444.168178	1383.763247	1309.114056	1596.404004	13.573088	1377.252265	1236.996518	795.476369	814.494848	
XAZ16568.1		0	0	0	0	0	0	0	0	32.906097	0	0	0	0
XBA311156.1		0	0	0	0	0	0	0	0	0	0	0	0	0
XBA28592.1		0	0	0	0	0	0	0	0	18.837463	0	0	0	0
XBA57870.1		0	0	0	0	0	0	0	0	3.067341	0	0	0	0
XBA30587.1		0	0	0	0	0	0	0	0	6.865491	0	0	0	0
XBA30727.1		0	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17659.1		0	0	0	0	0	0	0	0	8.183336	0	0	0	0
XBA29869.1		0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 2AVX A		0	0	0	0	0	0	0	0	5.878483	0	0	0	0
XAZ17661.1		0	0	0	0	0	0	0	0	0	0	0	0	0
XBA27749.1		0	0	0	0	0	0	0	0	1.988139	0	0	0	0
XBA27519.1		0	0	0	0	0	0	0	0	39.163759	0	0	0	0
WP_305165386.1		0	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1		0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B		0	0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1		0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A		0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29828.1		0	0	0	0	0	0	0	0	2.780539	0	0	0	0
XBA29568.1		0	0	0	0	0	0	0	0	1.647659	0	0	0	0
GH_sum	29006.7216	36046.26	42672.73036	21250.83723	13074.37149	32213.00209	30168.21781	40882.01919	20710.88639	28011.15275	43293.13511	22728.39247	61034.57637	
CE_sum	1455.515241	2398.7014	831.741301	1102.800047	963.35333	1626.441581	2142.597919	1346.820559	2324.930906	2085.948276	1266.870188	2048.355466	1387.462424	
CBM_sum	18384.42573	11642.094	21683.06485	14286.74211	4976.238739	14222.50118	12643.06373	22234.08768	6804.286043	11888.99633	7584.135913	14418.55503	6534.682377	
GT_sum	7740.189889	11235.31	12423.08393	8700.7746	6015.345462	7537.127526	10672.96462	14743.04859	12708.24012	11827.6354	11694.98066	11639.14103	10594.02047	
PL_sum		0	0	18.712351	0	0	215.481575	0	0	27.999914	0	0	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12	
evgS	53.791072	0	25.463195	0	0	0	0	0	0	0	368.610605	81.809485	0	0
sul2	0	0	0	0	0	0	0	0	0	0	0	8.017414	0	0
Bado_rpoB_RIF	0.444131	1970.846082	0	0	0	0	0	0	0	0	0	0	0	548.065692
msbA	0	0	0	0	0	0	0	0	0	0	307.614828	31.004871	0	0
Bbif_ileS_MUP	0	1496.891014	0	0	0	0	0	0	0	0	0	0	0	607.385014
Spyo_ErmA_MLSb	0	65.216491	0	0	0	19.796304	0	0	0	0	0	0	0	0
AcrF	258.290849	0	0	0	0	269.853409	0	0	0	0	134.236213	45.890012	0	0
tet(A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mphC	0	0	0	0	0	0	0	0	0	12.560852	0	0	7.173121	0
mdtG	0	10.032335	0	0	0	37.77485	0	0	0	0	34.511361	21.750176	0	0
rpoB2	436.17327	0	0	0	0	130.330476	0	0	0	63.823532	0	0	0	357.274602
eptA	0	0	0	0	0	9.857364	0	0	0	0	169.077183	16.275571	0	0
tet(M)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ugd	294.728798	0	0	0	0	163.151823	0	0	0	0	0	121.820624	0	0
ErmF	83.959412	0	3.473271	0	0	4.175031	0	0	0	30.874109	0	146.60317	0	43.974087
acrB	0	0	0	0	0	751.748984	0	0	0	0	175.18169	92.838672	0	0
efrB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
bacA	0	0	0	0	0	6.241275	0	0	0	0	22.140414	3.76195	0	0
tet(O)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lsaC	143.346308	121.034667	0	2397.31614	0	10.939656	0	103.690878	0	0	0	0	7207.198477	34.562229
Kpne_OmpK37	0	0	0	0	0	33.050407	0	0	0	0	175.370692	10.121328	0	0
Kpne_KpnE	0	0	0	0	0	0	0	0	0	0	0	21.002103	0	0
Mrx	0	0	0	0	0	0	0	0	0	0	0	12.052309	0	0
ArnT	0	0	0	0	0	624.445772	0	0	0	0	51.57408	9.234683	0	0
qacEdelta1	0	0	0	0	0	0	0	0	0	0	0	18.533354	0	0
ErmX	0	0	0	0	0	112.988799	27.028152	3.791674	0	0	0	0	1.463075	1619.71119
Erm(35)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LptD	0	0	2.188275	0	0	256.398232	0	0	0	0	37.263008	18.68022	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
norA		0	0	0	0	0	156.828832	0	0	0	0	0	0
mdtB		0	0	0	0	0	0	0	0	0	111.408686	33.146242	0
emrA		0	0	0	0	0	0	0	0	0	143.910547	8.671259	0
TEM-126		0	0	0	0	13.98	10.85814	0	0	0	66.040101	32.858543	0
mecA		0	0	0	0	0	0	0	0	0	0	0	0
emrR		0	0	0	0	0	0	0	0	0	110.557503	11.148772	0
acrD		0	0	0	0	0	43.05644	0	0	2.961328	378.25263	16.020561	0
PC1_blaZ	83.361831		0	0	0	0	106.782272	0	0	0	0	0	0
CfxA6		0	0	0	0	0	0	0	0	72.988829	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	40.833763	0
mdtC		0	0	0	0	0	0	0	0	0	137.731993	54.718495	0
mdtE		0	0	0	0	0	0	0	0	0	38.646684	14.172573	0
AAC(6)-Ib7		0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	8.131524	0	0	0	42.816562	22.640717	0
H-NS		0	0	20.331113	0	0	0	0	0	0	55.405676	33.365883	0
mreA		0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	22.782666	0	0	0	23.100194	13.878199	0
ErmB	85.830452	12.61976	2.076432	954.74183	0	0	3.674951	0	14.513191	2.727815	3.724602	1.935946	1068.212464
marA		0	0	0	0	0	0	0	0	0	17.111825	0	0
qacA		0	0	0	0	0	149.964782	0	0	0	0	0	17.245362
sdiA		0	30.558517	0	0	0	314.468086	0	0	0	30.411593	27.509369	0
tet(W)		0	0	0	0	0	0	0	0	0	0	0	0
mdtO		0	0	0	0	0	0	0	0	0	13.57366	34.200297	0
rosB		0	0	0	0	0	0	0	0	0	51.26123	5.117002	0
leuO		0	0	0	0	0	172.062696	0	0	0	0	11.024619	0
mdtN	18.224759		0	0	0	0	28.452117	0	0	0	70.192284	48.104073	0
eptB		0	0	0	0	0	89.089184	0	0	0	22.159266	11.528489	0
MdtK		0	0	0	0	0	42.58445	0	0	0	121.945569	76.451365	0
CfxA3	2.075442		0	0.970518	0	0	0	0.374194	0	0.191197	0	65.627872	0.102042

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
Saga_mprF		0	0	0	0	0	0	0	0	0	0	0	0
lnuC		0	252.977552	0	0	0	0	0	0	0	0	0	0
FosA6		0	0	0	0	0	199.177662	0	0	0	0	0	0
mgrA		0	0	0	0	0	0	0	0	0	0	22.31036	0
emrK		0	0	0	0	0	0	0	0	0	78.341405	47.454863	0
cpxA		0	0	108.327559	0	0	10.018319	0	0	0	40.620918	89.540445	0
mel		0	221.869025	0	0	0	0	0	0	0	9.787906	0	4.310198
dfrE		0	0	0	0	0	0	0	0	0	0	33.54303	0
catP		0	0	0	0	0	0	0	0	0	0	0	19.244733
AcrE		0	0	0	0	0	0	0	0	0	51.394602	0	0
PmrF		0	0	0	0	0	0	0	0	0	195.027929	28.945814	0
YojI		0	0	9.772139	0	0	183.63663	0	0	0	54.613454	8.482648	0
EcoI_emrE		0	0	0	0	0	13.074535	0	0	0	13.253894	11.883722	0
arnA		0	0	0	0	0	169.763678	0	0	0	0	0	0
CTX-M-121		0	127.383849	0	0	0	0	0	0	0	0	95.553579	0
EcoI_acrA		0	0	0	0	0	0	0	0	0	19.042044	11.416481	0
mdtF		0	0	0	0	5.4116	4.198455	0	0	0	38.298727	10.128315	0
emrB	61.08841	0	14.381232	0	0	166.512981	0	0	0	0	61.344299	28.188004	0
mdtA	0	0	0	0	0	0	0	0	0	0	69.917025	0	0
sulI	0	0	0	0	0	0	0	0	0	0	51.429176	58.996183	0
AAC6_IeAPH2_Ia	42.057278	0	0	0	0	0	0	0	0	30.260898	0	0	39.223081
dfrF	0	0	0	0	0	0	0	0	0	0	0	0	0
EcoI_mdfA	0	0	0	0	0	0	0	0	0	0	98.315063	14.719545	0
emrY	26.913554	0	0	0	0	0	0	0	0	0	17.092928	15.289288	0
ErmT	0	172.236662	0	0	0	0	0	0	0	0	0	0	0
dfrA17	0	0	0	0	0	0	0	0	0	0	160.525754	24.235937	0
tet(O/32/O)	0	0	0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia	0	0	0	0	0	0	0	0	0	0	0	0	0
EC-5	17.369861	0	0	0	0	0	10.807455	0	0	0	24.646047	8.140983	0
APH(3')-IIIa	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
tet(Q)		0	0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	20.67632	0	0	0	20.958997	9.382905	0
ThfT		0	0	0	0	0	0	0	0	0	0	0	0
TolC		0	0	0	0	0	0	0	0	0	28.280995	10.699546	0
CRP		10.938961	0	2.562977	0	0	6.812042	0	0	0	17.260914	7.186554	0
rosA		0	0	0	0	0	18.556816	0	0	0	50.157864	7.468913	0
rsmA		0	0	0	0	0	0	0	0	0	8.853885	0	0
msrA		0	0	0	0	0	0	0	0	0	0	0	0
aadA5		0	0	0	0	0	0	0	0	0	0	0	0
mdtP		0	0	0	0	0	0	0	0	0	12.174924	15.646716	0
smeE		0	0	0	0	0	306.887876	0	0	0	0	0	0
OmpA		0	0	0	0	0	14.434408	0	0	0	0	0	0
Kpne_KpnH		0	0	0	0	0	220.13685	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0	0
nimK		0.410183	0	0.287602	0	0	1.272049	0	0	0.113264	0	59.915404	0.100665
cmx		89.090435	0	0	0	0	0	0	0	0	0	0	253.457806
AcrS		0	0	0	0	0	0	0	0	0	0	0	0
gadW		0	0	0	0	0	21.210141	0	0	0	21.502613	6.453954	0
tet(37)		0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	10231.29432	25362.39568	30518.63441	29223.26192	83474	17768.7301	43636.50923	46317.20571	61077.65576		40215.60598	38068.12904	38689.18155
CE_sum	323.730587	537.298015	1681.682514	1743.390035	1090.1	2071.669835	0	2534.896977	1930.521702		2207.686306	1737.879686	1473.312038
CBM_sum	2843.141667	9306.943738	2047.049256	12770.09681	14776	2706.363992	90.933289	3133.480991	10093.25428		3328.817319	3280.478484	25489.6922
GT_sum	2250.989022	11798.22114	9754.080362	8748.036415	7040.9	14594.82068	32599.56852	11203.67715	10791.72033		11334.3857	13852.17599	10877.11096
PL_sum	0	0	150.355274	0	0	593.144811	0	0	205.57698		0	24.235937	0
VFG044326(gb WP_001327262,	0	0	0	0	0	0	0	0	0	0	36.738158	61.216575	0
VFG045346(gb WP_011149697,	0	0	0	0	0	0	0	0	0	0	13.876564	8.297308	0
VFG048621(gb WP_004213924,	0	0	0	0	0	172.849432	0	0	0	0	355.521056	0	0
VFG001814(gb NP_215678)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005286(gb WP_000746885,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG046465(gb WP_003028672,	57.877444	19.919563	0	7.862125	24.758	656.54819	67.61158	3.617458	0		74.268813	68.120623	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG050164(gb WP_000723250	90.811973	0	29.660285	0	0	0	0	0	0	0	99.800564	0	0
VFG037100(gb WP_010980745	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000932(gb WP_000026784	0	0	0	0	0	4.358569	0	0	0	0	17.670847	6.572164	0
VFG001447(gb CAA50007)	0	0	0	0	0	0	0	0	0	0	120.286017	0	0
VFG049144(gb WP_002892069	258.290849	0	0	0	0	1021.602393	0	0	0	0	309.417903	138.728684	0
VFG045349(gb WP_000092542	0	0	0	0	0	0	0	0	0	0	148.465234	46.237791	0
VFG000077(gb NP_465991)	88.992028	0.38669	0.29719	1045.741732	0	6.37155	0	19.175804	0.936551	0	0.118688	1273.955765	0
VFG048990(gb WP_001741945	0	0	0	0	0	111.741235	0	0	0	0	113.586806	0	0
VFG000079(gb NP_463763)	0	0	0	0	0	0	21.399316	0	0	0	0	16.065205	0
VFG000874(gb WP_000824100	0	0	0	0	0	0	0	0	0	0	4.476964	0	0
VFG012095(gb WP_003435012	0	160.569582	0	0	0	6.822767	3020.591462	0	0	0	0	0	0
VFG000363(gb WP_002212775	0	0	0	0	0	16.335749	0	0	0	0	61.51576	19.094577	0
VFG000930(gb WP_000077767	0	0	0	0	0	0	0	0	0	0	125.41209	90.904598	69.157262
VFG002164(gb WP_002395058	0	0	0	0	0	116.974659	0	0	0	0	18.061017	0	0
VFG002182(gb WP_002376666	0	111.831899	0	16.683345	0	212.179883	15.660508	0	0	0	0	0	61.125273
VFG049160(gb WP_001327259	0	0	61.506239	0	0	0	0	0	0	0	59.898113	0	0
VFG044159(gb WP_000125846	0	0	0	0	0	0	0	0	0	0	7.519103	0	0
VFG002356(gb WP_011816614	0	0	0	0	0	0	0	0	0	0	136.351096	25.259393	0
VFG002046(gb WP_000135089	0	0	0	0	0	20.683293	0	0	0	0	6.291899	0	0
VFG005966(gb WP_000578446	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012337(gb WP_001370792	0	0	0	0	0	0	0	0	0	0	32.234692	0	0
VFG005775(gb WP_000403526	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260	0	0	0	0	0	0	0	0	0	0	16.314058	0	0
VFG002346(gb WP_005160438	0	0	0	0	0	0	0	0	0	0	175.140254	30.216455	0
VFG005790(gb WP_000033003	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049157(gb WP_014907259	0	0	0	0	0	0	0	0	0	0	97.507869	0	0
VFG000875(gb WP_000066579	121.54551	0	0	0	0	0	0	0	0	0	24.301766	0	0
VFG048697(gb WP_015874721	0	0	0	0	0	0	0	0	0	0	129.912382	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG002319(gb WP_005160341	0	0	0	0	0	0	0	0	0	0	82.152123	0	0
VFG048797	294.728798	0	0	0	0	163.151823	0	0	0	0	121.820624	0	0
VFG002190(gb WP_002362225	0	0	0	0	0	40.294209	0	0	0	61.273862	6.127037	0	0
VFG002307(gb NP_461452)	0	0	0	0	0	0	0	0	0	83.895284	50.897631	0	0
VFG002322(gb WP_011816590	0	0	0	0	0	0	0	0	0	57.609915	109.605354	0	0
VFG005215(gb WP_000743858	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012343(gb WP_001234182	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000905(gb WP_001546261	0	0	0	0	0	0	0	0	0	23.933991	0	0	0
VFG001359(gb WP_000733059	0	0	0	0	0	26.634575	0	0	0	0	0	0	41.099227
VFG050166(gb WP_000066003	0	0	0	0	0	0	0	0	0	71.690667	0	0	0
VFG001405(gb NP_217219)	0	0	0	0	0	651.459466	0	0	0	0	0	0	77.448618
VFG002054(gb WP_000633233	48.51564	0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005978(gb WP_000686634	0	2.514926	623.551305	0	2.2677	9.399416	0	4.345858	14.040037	1.755437	19.495505	0	0
VFG049116(gb WP_012737528	0	0	0	0	0	0	0	0	0	67.602116	0	0	0
VFG005486(gb WP_000417180	0	0	0	0	0	0	0	0	0	119.957206	0	0	0
VFG005906(gb WP_001093064	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005778(gb WP_000462410	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048643(gb WP_014907727	0	0	0	0	0	0	0	0	0	96.935672	0	0	0
VFG005584(gb WP_000403400	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048830(gb WP_014907233	0	0	0	0	0	49.881512	0	0	0	29.013979	4.338522	0	194.631461
VFG048277(gb WP_009308599	0	0	0	0	0	0	0	0	0	0	38.885481	0	0
VFG050159(gb WP_001331697	0	0	0	0	0	0	0	0	0	17.211537	10.309202	0	0
VFG000928(gb WP_000640938	0	0	0	0	0	0	0	0	0	15.829781	0	0	0
VFG001444(gb AAG10151)	0	0	0	0	0	0	0	0	0	70.078349	14.275594	0	0
VFG048687(gb WP_002902160	0	9.901903	0	0	0	0	0	0	0	30.335317	0	0	0
VFG000888(gb WP_000723799	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005787(gb WP_000118217	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG044332(gb WP_015874967	0	0	0	0	0	0	0	0	0	119.079938	0	0	0
VFG000891(gb WP_000006208	0	0	0	0	0	0	0	0	0	47.095693	1.167435	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG000939(gb WP_001287497,	0	0	0	0	0	0	0	0	0	0	247.453098	0	0
VFG000881	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0	50.339	0	0	0	0	0	39.830146	12.067454	0
VFG000907(gb WP_000376545,	0	0	0	0	0	0	0	0	0	0	61.500055	0	0
VFG043504(gb WP_000671444,	0	0	0	0	0	0	0	0	0	0	222.441981	0	0
VFG049118(gb WP_012737529,	38.17153	0	0	0	0	0	0	0	0	0	36.524773	26.18298	0
VFG005197(gb WP_000006706,	0	0	0	0	0	13.192907	0	0	0	0	0	0	84.803924
VFG044328(gb WP_015874963,	0	0	0	0	0	0	0	0	0	0	366.118543	316.0265	0
VFG050160(gb WP_000030755,	0	0	0	0	0	0	0	0	0	0	0	25.264741	0
VFG002331(gb WP_026018001,	0	0	0	0	0	0	0	0	0	0	0	13.603372	0
VFG048257(gb WP_004174507,	0	0	0	0	0	136.20991	0	0	0	0	0	0	0
VFG049162(gb WP_002430641,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048841(gb WP_014907232,	0	0	0	0	0	0	0	0	0	0	0	37.596347	0
VFG012505(gb WP_000933673,	0	0	0	0	0	0	0	0	0	0	219.135693	0	0
VFG049902(gb WP_011310140,	0	0	0	0	0	0	0	0	0	0	45.576613	0	0
VFG049158(gb WP_001297937,	0	0	0	0	0	0	0	0	0	0	160.401035	0	0
VFG000923(gb WP_001034892,	54.335252	0	12.862062	0	0	0	0	0	0	0	108.550995	49.89794	0
VFG002416(gb WP_001265657,	0	0	0	0	0	66.782448	0	0	0	0	67.71191	0	0
VFG000889(gb WP_000113351,	0	0	0	0	0	0	0	0	0	0	0	9.217985	0
VFG012513(gb WP_001221122,	0	0	0	0	0	0	0	0	0	0	155.8067	0	0
VFG006717(gb NP_465159)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG043213	0	0	0	0	51.022	39.822107	0	0	0	0	40.374321	12.235345	0
VFG012509(gb WP_001111200,	0	0	0	0	0	94.09446	0	0	0	0	148.240857	0	0
VFG038380(gb WP_043163044,	0	0	0	0	0	0	0	0	0	0	21.62066	32.44889	0
VFG048771(gb WP_004190505,	0	0	0	0	0	0	0	0	0	0	93.133556	0	0
VFG044329(gb WP_015874964,	81.911604	0	0	0	0	0	0	0	0	0	122.056585	47.016978	0
VFG000477(gb NP_461845)	0	0	0	0	0	485.742469	0	0	0	0	0	26.372053	0
VFG000964(gb WP_010922799,	0	0	0	0	0	330.221947	0	22.877745	0	0	159.826417	0	0
VFG005781(gb WP_000650746,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000959(gb WP_010922232,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000924(gb WP_001234311,	0	0	0	0	0	0	0	0	0	0	0	76.333835	0
VFG050165(gb WP_001259305,	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12	
VFG013368(gb WP_005693225]	0	0	0	0	0	0	0	0	0	0	0	0	0	
VFG044333(gb WP_015874968]	0	0	0	0	0	0	0	0	0	0	85.672959	60.60965	0	0
VFG048972(gb WP_014907221]	0	0	0	0	0	557.368641	0	0	0	0	23.954889	17.887109	0	0
VFG006002(gb WP_000197412]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	125.697748	0	0	0	0	0	0	0	107.859529
VFG049149(gb WP_041169023]	0	0	0	0	0	0	0	0	0	0	202.911528	0	0	0
VFG005942(gb WP_000660895]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048348(gb WP_004149658]	0	0	0	0	0	282.664988	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000940(gb WP_001299620]	0	0	0	0	0	0	0	0	0	0	57.887772	0	0	0
VFG000906(gb WP_001142375]	0	0	0	0	0	0	0	0	0	0	54.419694	0	0	0
VFG034679	327.232283	0	0	0	0	164.865234	0	0	0	0	42.425427	53.062925	0	0
VFG002412(gb WP_000716386]	0	0	0	0	0	0	0	0	0	0	25.827011	0	0	0
VFG002055(gb WP_000097229]	111.144896	0	0	0	0	0	0	0	0	0	0	22.087416	0	0
VFG000368(gb WP_000703040]	0	0	0	0	0	0	0	0	0	0	0	23.807844	0	0
VFG044165(gb WP_001041793]	0	0	24.192562	0	0	32.590569	0	0	0	0	33.045508	0	0	0
VFG049156(gb WP_077265119]	0	0	0	0	0	0	0	0	0	0	111.724309	0	0	0
VFG000362	24.256816	0	0	0	0	0	0	0	0	0	460.684034	16.053119	0	0
VFG012327(gb WP_011076307]	0	0	0	0	0	0	0	0	0	0	35.525149	0	0	0
VFG002417(gb WP_001301550]	20.612846	0	0	0	0	6.441969	0	0	0	0	13.059223	0	0	0
VFG049150(gb WP_000982270]	0	0	0	0	0	0	0	0	0	0	185.772396	0	0	0
VFG000929(gb WP_001375021]	0	0	0	0	0	0	0	0	0	0	0	25.509578	0	0
VFG000331(gb WP_005693548]	0	0	0	0	0	29.715064	0	0	0	0	30.123608	13.517157	0	0
VFG000080(gb NP_464522)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257]	0	0	0	0	0	0	0	0	0	0	348.841784	0	0	0
VFG050162(gb WP_001161829]	0	0	0	0	0	95.428075	0	0	0	0	53.524868	0	0	0
VFG047708(gb WP_003022611]	0	0	0	0	0	696.685558	0	0	0	0	0	18.477946	0	0
VFG050157(gb WP_001331698]	0	0	0	0	0	0	0	0	0	0	47.68893	0	0	0
VFG002338	61.944782	0	0	0	0	0	0	0	0	0	19.941981	5.980773	0	0
VFG043626(gb WP_000820818]	0	0	0	0	0	223.576822	0	0	0	0	0	0	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG043211(gb WP_032902679)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000937(gb WP_000750139)	0	0	0	0	0	0	0	0	0	0	265.681882	0	0
VFG044325(gb WP_002212761)	0	0	8.104541	0	0	0	0	0	0	0	21.911304	16.352675	0
VFG044327(gb WP_000140406)	0	0	0	0	0	0	0	0	0	0	188.572709	50.334206	0
VFG013286(gb WP_005694325)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049155(gb WP_000829570)	0	0	0	0	0	0	0	0	0	0	46.381758	0	0
VFG001795(gb BAC98831)	0	0	0	0	0	0	0	0	0	0	0	0	85.6577
VFG044172(gb WP_000622316)	0	0	0	0	0	0	0	0	0	0	38.213697	15.636578	0
VFG038395(gb WP_011705721)	28.058439	0	0	0	0	8.79401	0	0	0	0	8.914006	10.633186	0
VFG045788(gb WP_001189322)	0	0	0	0	0	20.981098	0	0	0	0	21.270345	6.383498	0
VFG002172(gb WP_010710127)	0	0	0	0	0	75.260995	0	0	0	0	0	112.172631	0
VFG050168(gb WP_000590258)	0	0	0	0	0	0	0	0	0	0	26.762434	0	0
VFG049114(gb WP_012737527)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)	55.051303	0	0	0	0	0	0	0	0	0	175.471115	165.665318	0
VFG002186(gb WP_002387129)	0	0	0	0	0	131.06956	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)	0	0	0	0	0	338.996644	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)	0	0	0	0	0	104.087846	0	0	0	0	0	104.182199	0
VFG000876(gb WP_000120946)	112.812408	0	0	0	0	0	0	0	0	0	50.767443	109.578805	0
VFG000861(gb WP_001045649)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)	0	0	0	0	0	0	0	0	0	0	121.122962	12.235345	0
VFG048885(gb WP_014907227)	0	0	0	0	0	16.69842	0	0	0	0	27.753129	0	0.159074
VFG049148(gb WP_041168941)	0	0	0	0	0	0	0	0	0	0	335.115085	0	0
VFG049120(gb WP_012737535)	0	0	0	0	17.133	0	0	0	0	0	53.984537	16.573875	0
VFG034866(gb WP_000900547)	0	0	0	0	0	263.895987	0	0	0	0	0	284.645166	0
VFG013346(gb WP_005693178)	0	0	0	0	0	0	0	0	0	0	88.277594	0	0
VFG043206(gb WP_005164479)	0	55.10382	0	0	0	0	0	0	0	0	0	0	0
VFG043212(gb WP_005168761)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG045794(gb WP_000992818)	0	0	0	0	0	20.981098	0	0	0	0	21.270345	0	0
VFG001855(gb WP_197535493)	21.416801	0	0	0	0	13.335753	0	0	0	0	23.653834	5.024425	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG000935(gb WP_001222189,	376.148316	0	0	0	0	0	0	0	0	0	250.08041	0	0
VFG000884(gb WP_000654937,	0	0	0	0	0	0	0	0	0	0	114.778583	34.617786	0
VFG050158(gb WP_000905916,	0	0	0	0	0	137.26021	0	0	0	0	60.357105	0	0
VFG000908(gb WP_000860472,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000871	0	30.236221	0	0	0	0	0	0	0	0	60.203328	18.149817	0
VFG002049(gb WP_001173470,	0	0	0	0	0	0	0	0	0	0	34.075591	0	0
VFG050163(gb WP_000197083,	0	0	0	0	0	0	0	0	0	0	27.318508	0	0
VFG000879(gb WP_000832235,	0	0	0	0	0	0	0	0	0	0	25.328699	35.792228	0
VFG002196	0	0	0	0	0	79.166224	0	0	0	0	0	24.235937	0
VFG049133(gb WP_004177236,	0	0	0	0	0	0	0	0	0	0	19.042044	11.416481	0
VFG049908(gb WP_001080148,	0	0	0	0	0	0	0	0	0	0	42.312165	6.348843	0
VFG002415(gb WP_001131063,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000449(gb NP_459544)	0	0	0	0	0	0	0	0	0	0	0	20.0069	0
VFG000916(gb WP_001017192,	0	0	3.946876	0	0	10.499334	0	0	0	0	69.97562	28.719771	0
VFG002358(gb WP_005164496,	0	0	0	0	0	121.435617	0	0	0	0	0	35.562627	0
VFG002051(gb WP_001115126,	25.664269	0	0	0	0	0	0	0	0	0	16.291562	7.284761	0
VFG048980(gb WP_041937790,	0	0	0	0	0	298.766493	0	0	0	0	0	0	0
VFG000361(gb WP_000982866,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617,	0	0	0	0	0	175.461988	0	0	0	0	0	0	0
VFG050169(gb WP_000124301,	0	0	0	0	0	0	0	0	0	0	154.66509	24.648783	0
VFG013069(gb WP_005019013,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540,	0	0	0	0	0	0	0	0	0	0	86.815708	26.054351	0
VFG049915(gb WP_001142968,	0	0	0	0	0	0	0	0	0	0	0	13.499589	0
VFG005990(gb WP_000659582,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533,	0	0	0	0	0	0	0	0	0	0	19.204497	14.322708	0
VFG043209(gb WP_005168769,	0	0	0	0	0	14.722617	0	0	0	0	22.384723	116.652321	0
VFG034754(gb WP_000081129,	0	0	0	0	0	0	0	0	0	0	0	21.234026	0
VFG045473(gb AAM75250)	0	0	0	0	0	115.975824	0	0	0	0	0	0	0
VFG045791(gb WP_000481500,	181.738929	0	9.937937	0	0	0	0	0	0	0	88.350076	30.766751	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG049917	523.045458	0	0	0	0	0	561.678638	0	0	0	0	0	0
VFG005784(gb WP_001092618	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG006034(gb WP_000064997	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG047039(gb WP_003018140	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG012333(gb WP_000703306	0	0	0	0	0	0	0	0	0	0	45.488875	0	0
VFG045792(gb WP_000791650	0	0	0	0	0	0	0	0	0	0	71.143441	7.082606	0
VFG000886(gb WP_000261297	0	0	0	0	0	0	0	0	0	0	0	16.275571	0
VFG000917(gb WP_000089583	0	0	0	0	0	0	0	0	0	0	13.430345	32.161437	0
VFG005299(gb WP_001233990	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002341(gb WP_005168813	0	0	0	0	0	0	0	0	0	0	100.347434	59.375963	0
VFG006024(gb WP_000565385	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)	0	0	0	0	0	0	53.952333	0	0	0	54.709584	16.652732	0
VFG005894(gb WP_000262522	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034721(gb WP_000556298	31.318211	0	0	0	0	0	14.653588	0	0	0	29.705118	10.314219	0
VFG048985(gb WP_014907219	0	0	0	0	0	0	335.206159	0	0	0	0	0	0
VFG013412(gb WP_005693459	0	0	2.08395	0	0	0	19.380187	0	0	0	25.254819	3.336942	0
VFG005291(gb WP_000723812	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000367(gb WP_001286280	0	0	0	0	0	0	47.235125	0	0	0	143.644043	0	0
VFG000878(gb WP_000872015	0	0	0	0	0	0	0	0	0	0	39.300796	11.903922	0
VFG000872(gb WP_000044711	0	0	0	0	0	0	34.014691	0	0	0	0	10.421699	0
VFG002413(gb WP_000389022	0	0	0	0	0	0	0	0	0	0	15.935337	0	0
VFG000919(gb WP_001095619	0	0	0	0	0	0	0	0	0	0	81.911752	13.289431	0
VFG001445(gb AAA92657)	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084	0	0	0	0	0	0	252.077259	0	0	0	0	146.854158	0
VFG049905(gb WP_000343289	0	0	0	0	0	0	0	0	0	0	87.650407	29.988187	0
VFG002197(gb WP_002387027	0	0	0	0	0	0	94.758886	0	0	0	0	0	0
VFG048808(gb WP_004899416	0	0	0	0	0	0	0	0	0	0	106.39024	0	0
VFG005295(gb WP_000850672	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260	0	0	0	0	0	0	0	0	0	0	66.495324	20.221822	0
VFG000927(gb WP_000096764	0	0	0	0	0	0	0	0	0	0	29.447874	26.423336	0
VFG005289(gb WP_001868236	0	0	0	0	0	0	0	0	0	0	0	0	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12
VFG005858(gb WP_000727597,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG042389(gb WP_000012013,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539,	35.073468	0	16.529269	0	0	0	0	0	0	0	11.173227	10.007565	0
VFG044331(gb WP_015874966,	0	0	0	0	0	0	0	0	0	0	43.083637	6.465851	0
VFG010906(gb WP_011213314,	0	0	0	0	0	0	0	0	0	0	8.853885	0	0
VFG000873	0	0	0	0	72.293	0	0	0	0	0	57.334494	17.456564	0
VFG002048(gb WP_000249362,	0	0	0	0	0	0	0	0	0	0	134.622059	16.429595	0
VFG048478(gb WP_004147521,	0	0	0	0	0	247.106359	0	0	0	0	0	0	0
VFG005834(gb WP_000802346,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227,	34.685178	0	8.172387	0	0	0	0	0	0	0	11.047852	13.192854	0
VFG005280(gb WP_000815035,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG038285(gb WP_005308483,	0	0	0	0	0	0	0	0	0	0	9.106381	0	0
VFG001379(gb NP_214867)	0	0	0	0	0	58.202492	0	0	0	0	0	0	55.726353
VFG005930(gb WP_000591736,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049909(gb WP_001113715,	0	0	0	0	0	0	0	0	0	0	36.06805	12.530285	0
VFG012339(gb WP_000237768,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201,	0	0	0	0	0	0	0	0	0	0	84.541692	0	0
VFG000332(gb WP_005632797,	17.511705	0	0	0	0	10.932576	0	0	0	0	33.243393	6.597844	0
VFG001443(gb AAF37887)	0	0	0	0	0	14.434408	0	0	0	0	0	0	0
VFG005918(gb WP_000181212,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG001713(gb WP_001298062,	0	0	0	0	0	0	0	0	0	0	34.136469	7.633553	0
VFG002047	15.877334	0	0	0	0	9.90603	0	0	0	0	25.101372	8.96504	0
VFG050289(gb WP_010934515,	0	0	0	0	0	209.64539	0	0	0	0	0	0	190.11154
VFG038861(gb WP_005314296,	0	0	0	0	0	76.258062	0	0	0	0	0	0	0
VFG049147(gb WP_001217110,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396,	0	0	0	0	0	29.313547	0	0	0	0	29.723024	26.877205	0
VFG000974(gb WP_010922711,	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000883(gb WP_001239363,	0	0	0	0	0	0	0	0	0	0	11.953209	17.850696	0

Gene	H40	H41	H42	H43	H44	H5	H6	H7	H8	H9	O10	O11	O12	
VFG002166(gb WP_010714416	0	0	0	0	0	0	0	0	0	0	0	64.199241	0	0
VFG002179(gb AAD09858)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194	0	0	5.314946	0	0	21.2261	0	0	0	0	25.970913	8.547304	0	10.275948
VFG012501(gb WP_000271272	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BFI77837.1	122.838672	72.979971	755.682208	1372.513769	573.02	165.705716	3016.565834	822.994969	757.519963	931.397765	1064.086477	1535.927396	86.635798	
XAZ16568.1	0	0	0	0	0	303.784971	0	0	0	0	270.959084	0	0	0
XBA31156.1	0	0	0	0	0	0	0	0	0	0	15.23662	0	0	0
XBA28592.1	0	0	0	0	72.293	0	0	0	0	0	57.334494	21.933528	0	0
XBA57870.1	38.17153	0	0	0	0	0	0	0	0	0	86.068156	56.591159	0	0
XBA30587.1	0	0	0	0	0	0	0	0	0	0	107.535856	16.182789	0	0
XBA30727.1	27.995759	0	0	0	0	0	0	0	0	0	8.893875	10.609065	0	0
XAZ17659.1	20.612846	0	0	0	0	73.224417	0	0	0	0	80.771133	0	0	0
XBA29869.1	0	0	0	0	0	0	0	0	0	0	171.81269	43.791369	0	0
pdb 2AVX A	0	30.558517	0	0	0	0	0	0	0	0	53.511787	27.509369	0	0
XAZ17661.1	0	0	0	0	0	0	0	0	0	0	25.827011	0	0	0
XBA27749.1	0	0	0	0	0	0	0	0	0	0	15.843699	4.722463	0	0
XBA27519.1	181.738929	0	9.937937	0	0	0	0	0	0	0	88.350076	30.766751	0	0
WP_305165386.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B	0	0	0	0	0	0	0	0	0	0	0	110.864554	0	0
WP_116363378.1	0	0	0	0	0	0	0	0	0	0	0	110.864554	0	0
pdb 7SIE A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XBA29828.1	34.685178	0	8.172387	0	0	0	0	0	0	0	11.047852	13.192854	0	0
XBA29568.1	0	0	0	0	0	12.969944	0	0	0	0	32.866022	1.957908	0	0
GH_sum	10231.29432	25362.39568	30518.63441	29223.26192	83474	17768.7301	43636.50923	46317.20571	61077.65576	40215.60598	38068.12904	38689.18155	43734.22131	
CE_sum	323.730587	537.298015	1681.682514	1743.390035	1090.1	2071.669835	0	2534.896977	1930.521702	2207.686306	1737.879686	1473.312038	2389.859303	
CBM_sum	2843.141667	9306.943738	2047.049256	12770.09681	14776	2706.363992	90.933289	3133.480991	10093.25428	3328.817319	3280.478484	25489.6922	6090.034087	
GT_sum	2250.989022	11798.22114	9754.080362	8748.036415	7040.9	14594.82068	32599.56852	11203.67715	10791.72033	11334.3857	13852.17599	10877.11096	20478.72858	
PL_sum	0	0	150.355274	0	0	593.144811	0	0	205.57698	0	24.235937	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23	
evgS		0	0	0	0	0	0	0	0	0	0	8.898736	0
sul2		0	0	0	0	0	0	0	0	0	0	0	0
Bado_rpoB_RIF	884.530299	1194.936707		0	1764.193516	94.386318	113.361836	607.698561	623.693054	139.230135	7.224885	3150.917953	319.696857
msbA		0	0	0	0	0	0	0	0	0	0	4.735442	0
Bbif_ileS_MUP	1166.254745	826.569247		0	1405.517317	144.897132	0	2158.439242	163.150784	74.132443	2.935691	2949.580162	208.321173
Spyo_ErmA_MLSb	381.109855		0	0	20.414361	0	2.562017	20.23998	0	426.738771	0	22.42025	27.100642
AcrF		0	0	0	0	0	0	0	0	0	0	0	0
tet(A)		0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)		0	0	0	0	0	0	0	0	0	0	0	0
mphC		0	0	0	0	0	46.333055	31.496697	0	0	0	7.509525	0
mdtG		0	0	0	0	0	0	0	0	0	0	1.013927	0
rpoB2		0	169.562711	0	0	0	0	6.622789	0	0	0	45.874747	135.791089
eptA		0	0	0	0	0	0	0	0	0	0	0	0
tet(M)		0	0	0	0	0	0	0	0	0	0	0	0
ugd		0	0	0	0	0	0	0	0	0	0	0	0
ErmF	0.254172		0	0	0	0	38.28871	8.39458	0	3.883052	0	589.181614	13.91251
acrB		0	0	0	0	0	0	0	10.518956	0	0	2.266948	0
efrB		0	0	0	0	0	0	0	0	0	0	0	0
bacA		0	0	0	0	0	0	0	0	0	0	0.616663	0
tet(O)		0	0	0	0	0	0	0	0	0	0	0	0
lsaC	612.396947	1331.187354	4770.075327	3160.728413	739.313853	2488.649749	304.165979		0	25.843762	0	2852.41136	0
Kpne_OmpK37		0	0	0	0	0	0	0	0	0	0	15.880176	0
Kpne_KpnE		0	0	0	0	0	0	0	0	0	0	0	0
Mrx		0	0	0	0	0	0	1.685219	0	0	0	0	0
ArnT		0	0	0	0	0	0	0	0	0	0	0	0
qacEdelta1		0	0	0	0	0	0	0	0	0	0	0	0
ErmX		0	217.197376	0	0	0	62.786893	1.755309	0	0	0	0	0
Erm(35)		0	0	0	0	0	0	0	0	0	0	0	0
LptD		0	0	0	0	0	0	0	0	0	0	1.681285	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23	
norA		0	0	0	0	0	73.630515	0	0	0	0	0	0
mdtB		0	0	0	0	0	0	0	0	0	0	2.774501	0
emrA		0	0	0	0	0	0	0	0	0	0	0	0
TEM-126		0	0	0	0	0	17.008821	0	0	0	0	0	0
mecA		0	0	0	0	0	0	0	0	0	0	0	0
emrR		0	0	0	0	0	0	0	0	0	0	0	0
acrD		0	0	0	0	0	0	0	0	0	0	2.640068	0
PC1_blaZ		0	0	0	0	0	0	11.036234	0	0	0	0	0
CfxA6		0	0	0	0	0	0	0	0	0	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	0	0
mdtC		0	0	0	0	0	0	0	0	0	0	5.660883	0
mdtE		0	0	0	0	0	0	0	0	0	0	3.163342	0
AAC(6')-Ib7		0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	0	0	0	0	0	0	0
H-NS		0	0	0	0	0	0	0	0	0	0	0	0
mreA		0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	0	0	22.271609	0	0	7.696367	0
ErmB		0	167.014403	910.232072	0	16.52144	188.64677	6.730968	3.297826	0	0	94.084017	11.190659
marA		0	0	0	0	0	0	0	16.110862	0	0	0	0
qacA		0	0	0	0	0	32.956996	0	0	0	0	5.398666	0
sdiA		0	0	0	0	0	0	0	0	0	0	0	0
tet(W)		0	0	0	0	0	0	0	0	0	0	0	0
mdtO		0	0	0	0	0	0	0	0	0	0	1.353388	0
rosB		0	0	0	0	0	0	0	0	0	0	0	0
leuO		0	0	0	0	0	0	0	0	0	0	1.223155	0
mdtN		0	0	0	0	0	0	0	0	0	0	1.130832	0
eptB		0	0	0	0	0	0	0	0	0	0	0.809377	0
MdtK		0	0	0	0	0	0	0	0	0	0	13.534826	0
CfxA3		0	0	0	0	2.315223	5.188909	1.329551	0	0	0.661051	165.750508	2.613462

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
Saga_mprF		0	0	0	0	0	49.81552	0	0	0	0	0
lnuC		0	0	0	0	0	0	0	0	0	0	0
FosA6		0	0	0	0	0	0	0	0	0	0	0
mgrA		0	0	0	0	0	0	23.187706	0	0	0	0
emrK		0	0	0	0	0	0	0	0	0	0	4.138364
cpxA		0	0	0	0	0	0	0	0	0	0	1.005019
mel	68.243807	122.394917	4.50943	602.854072		0	0	461.034498	0	0	0	73.983771
dfrE		0	0	0	0	0	0	0	0	0	0	0
catP		0	0	0	0	0	0	0	0	0	0	0.265042
AcrE		0	0	0	0	0	0	0	0	0	0	0
PmrF		0	0	0	0	0	0	0	0	0	0	0
YojI		0	0	0	0	0	0	0	12.26366	0	0	0
Ecol_emrE		0	0	0	0	0	0	0	0	0	0	0
arnA		0	0	0	0	0	0	0	0	0	0	0
CTX-M-121		0	0	0	0	0	0	0	0	0	0	0
Ecol_acrA		0	0	0	0	0	0	0	0	0	0	0
mdtF		0	0	0	0	0	0	0	7.628946	0	0	0.415805
emrB		0	0	0	0	0	0	0	17.791616	0	0	0.826418
mdtA		0	0	0	0	0	0	0	0	0	0	0
sulI		0	0	0	0	0	0	5.21491	0	0	0	0
AAC6_IeAPH2_Ia		0	0	0	0	0	10.430774	26.04665	0	0	0	1.33913
dfrF		0	0	0	0	0	0	173.725575	0	0	0	0
Ecol_mdfA		0	0	0	0	0	0	0	0	0	0	1.431278
emrY		0	0	0	0	0	0	0	0	0	0	0
ErnT		0	0	0	0	0	0	0	0	0	0	0
dfrA17		0	0	0	0	0	0	0	0	0	0	0
tet(O/32/O)		0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia		0	0	0	0	0	0	0	0	0	0	0
EC-5		0	0	0	0	0	0	0	0	0	0	0.533421
APH(3')-IIIa		0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
tet(Q)		0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	0	0	0	0	0	0
ThfT		0	0	0	0	0	0	0	0	0	0	0
TolC		0	0	0	0	0	0	0	0	0	0	0.750936
CRP		0	0	0	0	24.605603	0	0	0	0	0	0.336739
rosA		0	0	0	0	0	0	0	0	0	0	0
rsmA		0	0	0	0	0	0	0	0	0	0	0.873758
msrA		0	0	0	0	0	0	0	0	0	0	0
aadA5		0	0	0	0	0	0	0	0	0	0	0
mdtP		0	0	0	0	0	0	0	0	0	0	0
smeE		0	0	0	0	0	0	0	0	0	0	0
OmpA		0	0	0	0	0	0	0	0	0	0	0
Kpne_KpnH		0	0	0	0	0	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0
nimK		0	0	0	0.058046	0	0	0.59763	0	0.136847	0.121182	95.109892
cmx		0	0	0	0	0	87.649079	40.163266	0	0	0	0
AcrS		0	0	0	0	0	0	0	0	0	0	0
gadW		0	0	0	0	0	0	0	0	0	0	0
tet(37)		0	0	0	0	0	0	0	0	0	0	0
GH_sum	24371.9353	17095.09054	37692.9308	18241.49938	7455.756908	21903.28277	29876.33531	48032.69823	17721.221	37805.41115	28699.21199	4646.606855
CE_sum	1599.686871	1347.419787	2049.680263	222.917423	71.716666	952.520438	169.628393	732.707403	2381.215475	1042.568331	1604.320273	3.365629
CBM_sum	7611.734475	10843.43476	23130.25198	6763.140501	2621.629016	13133.30726	5524.942079	5542.263524	3745.965245	3185.46139	14826.80007	393.29609
GT_sum	13453.58737	7223.219684	9880.515772	14422.50971	3322.068775	11861.15093	15701.87794	15113.57207	11036.97757	13142.6184	10659.45508	2913.666557
PL_sum	0	0	0	0	0	79.303384	102.935741	0	45.580409	0	0	0
VFG044326(gb WP_001327262,	0	0	0	0	0	0	0	0	0	0	0	0
VFG045346(gb WP_011149697,	0	0	0	0	0	0	0	0	0	0	0	0
VFG048621(gb WP_004213924,	0	0	0	0	0	0	0	0	0	0	0	0
VFG001814(gb NP_215678)	0	0	0	0	0	37.035905	0	0	0	0	0	0
VFG005286(gb WP_000746885,	0	0	0	0	0	0	0	0	0	0	0	0
VFG046465(gb WP_003028672,	337.795068	48.316381	0	1.1217	0	3.489733	46.375412	30.651573	40.47003	0.094315	129.343779	30.182442

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG050164(gb WP_000723250)	0	0	0	0	0	0	0	0	0	0	0	0
VFG037100(gb WP_010980745)	0	0	0	0	0	0	34.695751	0	0	0	0	0
VFG000932(gb WP_000026784)	0	0	0	0	0	0	0	0	0	0	0	0
VFG001447(gb CAA50007)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049144(gb WP_002892069)	0	0	0	0	0	0	0	10.518956	0	0	2.266948	0
VFG045349(gb WP_000092542)	0	0	0	0	0	0	0	22.415266	0	0	0.55178	0
VFG000077(gb NP_465991)	0	200.217323	1072.134217	0	68.023045	732.992632	13.942497	177.949051	0	0.094008	121.632631	1.599589
VFG048990(gb WP_001741945)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000079(gb NP_463763)	0	381.81995	0	0	0	22.303165	171.821849	0	0	0	120.854304	0
VFG000874(gb WP_000824100)	0	0	0	0	0	0	0	0	0	0	0	0
VFG012095(gb WP_003435012)	0	0	0	0	66.587119	59.679665	12.509367	317.626605	22.5088	0	10.552051	0
VFG000363(gb WP_002212775)	0	0	0	0	0	0	0	0	0	0	2.8375	0
VFG000930(gb WP_000077767)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002164(gb WP_002395058)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002182(gb WP_002376666)	0	0	0	0	0	0	29.876238	129.114725	0	0	0	33.85982
VFG049160(gb WP_001327259)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044159(gb WP_000125846)	0	0	0	0	0	0	0	0	0	0	5.114877	0
VFG002356(gb WP_011816614)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002046(gb WP_000135089)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005966(gb WP_000578446)	0	112.257433	0	0	0	18.416002	0	0	0	0	0	0
VFG012337(gb WP_001370792)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005775(gb WP_000403526)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049159(gb WP_014907260)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002346(gb WP_005160438)	0	0	0	0	0	0	0	69.884411	0	0	0	0
VFG005790(gb WP_000033003)	0	0	0	0	0	43.364744	0	0	0	0	0	0
VFG049157(gb WP_014907259)	0	0	0	0	0	0	0	16.389465	0	0	0	0
VFG000875(gb WP_000066579)	0	0	0	0	0	0	0	0	0	0	0	0
VFG048697(gb WP_015874721)	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23	
VFG002319(gb WP_005160341		0	0	0	0	0	0	0	0	0	0	0	
VFG048797		0	0	0	0	0	0	0	0	0	0	0	
VFG002190(gb WP_002362225		0	0	0	0	0	0	0	0	0	0	0	
VFG002307(gb NP_461452)		0	0	0	0	0	0	0	0	0	0	0	
VFG002322(gb WP_011816590		0	0	0	0	0	0	0	0	0	0	0	
VFG005215(gb WP_000743858		0	0	0	0	0	9.976483	0	0	0	0	0	
VFG012343(gb WP_001234182		0	0	0	0	0	0	0	0	0	0	0	
VFG000905(gb WP_001546261		0	0	0	0	0	0	0	0	0	0	0	
VFG001359(gb WP_000733059		0	0	0	0	0	13.312471	27.521013	0	0	0	0	
VFG050166(gb WP_000066003		0	0	0	0	0	0	0	0	0	0	0	
VFG001405(gb NP_217219)	237.464808		0	0	501.579809	86.176275	39.722069	499.905671	132.382743	97.712428	1.024703	0.513431	45.306185
VFG002054(gb WP_000633233		0	0	0	0	0	0	0	0	0	0	0	0
VFG005757(gb WP_001101136		0	0	0	0	0	95.337507	0	0	0	0	0	0
VFG005978(gb WP_000686634		0	0	0	0	0	0.32797	8.024185	370.856757	0	9.697266	0	7.043725
VFG049116(gb WP_012737528		0	0	0	0	0	0	0	0	0	0	0	0
VFG005486(gb WP_000417180		0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064		0	0	0	0	0	15.256142	0	0	0	0	0	0
VFG005778(gb WP_000462410		0	0	0	0	0	43.7461	0	0	0	0	0	0
VFG048643(gb WP_014907727		0	0	0	0	0	0	0	0	0	0	0	0
VFG005584(gb WP_000403400		0	0	0	0	0	60.25319	0	0	0	0	0	0
VFG048830(gb WP_014907233		0	0	0	0	0	2.765016	45.685898	6.535851	0	0	0	29.248169
VFG048277(gb WP_009308599		0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697		0	0	0	0	0	0	0	0	0	0	0	0
VFG000928(gb WP_000640938		0	0	0	0	0	0	0	0	0	0	0	0
VFG001444(gb AAG10151)		0	0	0	0	0	0	0	0	0	0	0	0
VFG048687(gb WP_002902160		0	0	0	0	0	0	0	0	0	0	0	0
VFG000888(gb WP_000723799		0	0	0	0	0	0	0	0	0	0	0	0
VFG005787(gb WP_000118217		0	0	0	0	0	56.155196	0	0	0	0	0	0
VFG044332(gb WP_015874967		0	0	0	0	0	0	0	134.839012	0	0	0	0
VFG000891(gb WP_000006208		0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG000939(gb WP_001287497	0	0	0	0	0	0	0	0	0	0	0	0
VFG000881	0	0	0	0	0	0	0	0	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000907(gb WP_000376545	0	0	0	0	0	0	0	0	0	0	0	0
VFG043504(gb WP_000671444	0	0	0	0	0	0	0	0	0	0	0	0
VFG049118(gb WP_012737529	0	0	0	0	0	0	0	0	0	0	2.728187	0
VFG005197(gb WP_000006706	0	0	0	0	0	0	55.403929	0	0	0	0	0
VFG044328(gb WP_015874963	0	0	0	0	0	0	0	0	0	0	0	0
VFG050160(gb WP_000030755	0	0	0	0	0	0	0	0	0	0	0	0
VFG002331(gb WP_026018001	0	0	0	0	0	0	0	0	0	0	0	0
VFG048257(gb WP_004174507	0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641	0	0	0	0	0	0	0	0	0	0	0	0
VFG048841(gb WP_014907232	0	0	0	0	0	0	0	47.183515	0	0	0	0
VFG012505(gb WP_000933673	0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140	0	0	0	0	0	0	0	0	0	0	0	0
VFG049158(gb WP_001297937	0	0	0	0	0	0	0	0	0	0	0	0
VFG000923(gb WP_001034892	0	0	0	0	0	0	0	0	0	0	0	0
VFG002416(gb WP_001265657	0	0	0	0	0	0	0	0	0	0	2.295734	0
VFG000889(gb WP_000113351	0	0	0	0	0	0	0	0	0	0	0	0
VFG012513(gb WP_001221122	0	0	0	0	0	0	0	0	0	0	0	0
VFG006717(gb NP_465159)	0	0	0	0	0	0	0	0	0	0	0	0
VFG043213	0	0	0	0	0	0	0	0	0	0	0	0
VFG012509(gb WP_001111200	0	0	0	0	0	0	0	0	0	0	0	0
VFG038380(gb WP_043163044	0	0	0	0	0	0	0	0	0	0	0	0
VFG048771(gb WP_004190505	0	0	0	0	0	0	0	0	0	0	0	0
VFG044329(gb WP_015874964	0	0	0	0	0	0	0	0	0	0	22.196977	0
VFG000477(gb NP_461845)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000964(gb WP_010922799	0	0	0	0	0	88.296376	25.393861	0	0	0	0	0
VFG005781(gb WP_000650746	0	0	0	0	0	127.755336	0	0	0	0	0	0
VFG000959(gb WP_010922232	0	0	0	0	0	21.018013	0	0	0	0	0	0
VFG000924(gb WP_001234311	0	0	0	0	0	0	0	0	0	0	15.671025	0
VFG050165(gb WP_001259305	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG013368(gb WP_005693225)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968)	0	0	0	0	0	0	0	0	0	0	0	0
VFG048972(gb WP_014907221)	0	0	0	0	0	0	0	0	0	0	1.190072	0
VFG006002(gb WP_000197412)	0	0	0	0	0	5.636587	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049149(gb WP_041169023)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005942(gb WP_000660895)	0	0	0	0	0	31.569058	0	0	0	0	0	0
VFG048348(gb WP_004149658)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955)	0	0	0	0	0	9.357145	0	0	0	0	0	0
VFG000940(gb WP_001299620)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000906(gb WP_001142375)	0	0	0	0	0	0	0	0	0	0	0	0
VFG034679	0	0	0	0	0	0	0	0	0	0	0	0
VFG002412(gb WP_000716386)	0	0	0	0	0	0	0	0	0	0	2.646161	0
VFG002055(gb WP_000097229)	0	0	0	0	0	0	0	0	0	0	3.83379	0
VFG000368(gb WP_000703040)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044165(gb WP_001041793)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049156(gb WP_077265119)	0	0	0	0	0	0	0	8.195375	0	0	0	0
VFG000362	0	0	0	0	0	0	0	0	0	0	0	0
VFG012327(gb WP_011076307)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002417(gb WP_001301550)	0	0	0	0	0	0	0	0	0	0	1.282304	0
VFG049150(gb WP_000982270)	0	0	0	0	0	0	0	189.783789	0	0	0	0
VFG000929(gb WP_001375021)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000331(gb WP_005693548)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000080(gb NP_464522)	0	138.939165	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257)	0	0	0	0	0	0	0	0	0	0	0	0
VFG050162(gb WP_001161829)	0	0	0	0	0	0	0	0	0	0	0	0
VFG047708(gb WP_003022611)	0	0	0	855.20577	0	0	0	0	0	0	2.078843	0
VFG050157(gb WP_001331698)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002338	0	0	0	0	0	0	0	0	0	0	0	0
VFG043626(gb WP_000820818)	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG043211(gb WP_032902679)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000937(gb WP_000750139)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044327(gb WP_000140406)	0	0	0	0	0	0	0	0	0	0	0	0
VFG013286(gb WP_005694325)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049155(gb WP_000829570)	0	0	0	0	0	0	0	0	0	0	0	0
VFG001795(gb BAC98831)	0	0	0	0	0	0	368.970868	0	0	0	0	0
VFG044172(gb WP_000622316)	0	0	0	0	0	0	0	4.290085	0	0	1.401794	0
VFG038395(gb WP_011705721)	0	0	0	0	0	0	0	0	0	0	0	0
VFG045788(gb WP_001189322)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002172(gb WP_010710127)	0	0	0	0	0	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049114(gb WP_012737527)	0	0	0	0	0	0	0	0	0	0	0	0
VFG050161(gb WP_000579525)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002186(gb WP_002387129)	0	0	0	0	0	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)	0	0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)	0	0	0	0	0	0	0	0	0	0	33.606157	0
VFG000876(gb WP_000120946)	0	0	0	0	0	0	0	12.712276	0	0	0	0
VFG000861(gb WP_001045649)	0	0	0	0	0	0	0	0	0	0	0	0
VFG048874(gb WP_041937789)	0	0	0	0	0	0	0	0	0	0	0	0
VFG048885(gb WP_014907227)	0	0	0	0	0	11.981769	0.56557	12.901049	0	0	37.434278	0
VFG049148(gb WP_041168941)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049120(gb WP_012737535)	0	0	0	0	0	0	0	0	0	0	0	0
VFG034866(gb WP_000900547)	0	0	0	0	0	0	25.579236	0	0	0	9.917271	0
VFG013346(gb WP_005693178)	0	0	0	0	0	0	0	0	0	0	0	0
VFG043206(gb WP_005164479)	0	0	0	0	0	0	0	0	0	0	0	0
VFG043212(gb WP_005168761)	0	0	0	0	0	0	0	0	0	0	0	0
VFG045794(gb WP_000992818)	0	0	0	0	0	0	0	0	0	0	2.157241	0
VFG001855(gb WP_197535493)	0	0	0	0	0	0	0	0	0	0	0.65912	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG000935(gb WP_001222189,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000884(gb WP_000654937,	0	0	0	0	0	0	0	0	0	0	0	0
VFG050158(gb WP_000905916,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000908(gb WP_000860472,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000871	0	0	0	0	0	0	0	0	0	0	0	0
VFG002049(gb WP_001173470,	0	0	0	0	0	0	0	0	0	0	0	0
VFG050163(gb WP_000197083,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000879(gb WP_000832235,	0	0	0	0	0	0	0	139.843068	0	0	0	0
VFG002196	0	0	0	0	0	0	0	0	0	0	0	0
VFG049133(gb WP_004177236,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049908(gb WP_001080148,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002415(gb WP_001131063,	0	0	0	0	0	0	0	0	0	0	8.144654	0
VFG000449(gb NP_459544)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000916(gb WP_001017192,	0	0	0	0	0	0	0	0	0	0	0.521116	0
VFG002358(gb WP_005164496,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002051(gb WP_001115126,	0	0	0	0	0	0	0	0	0	0	0.802645	0
VFG048980(gb WP_041937790,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002270(gb WP_011180104,	0	0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617,	0	0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301,	0	0	0	0	0	0	0	15.651311	0	0	0	0
VFG013069(gb WP_005019013,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049124(gb WP_012737540,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049915(gb WP_001142968,	0	0	0	0	0	0	0	0	0	0	0	0
VFG005990(gb WP_000659582,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049903(gb WP_001240533,	0	0	0	0	0	0	0	0	0	0	0	0
VFG043209(gb WP_005168769,	0	0	0	0	0	0	0	0	0	0	0.734139	0
VFG034754(gb WP_000081129,	0	0	0	0	0	0	0	0	0	0	0	0
VFG045473(gb AAM75250)	0	0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500,	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG049917		0	0	0	0	0	0	0	0	0	0	0
VFG005784(gb WP_001092618		0	0	0	0	0	7.998163	0	0	0	0	0
VFG006034(gb WP_000064997		0	0	0	0	0	7.748496	0	0	0	0	0
VFG047039(gb WP_003018140		0	193.506328	0	0	0	0	21.317994	0	0	0	220.311033
VFG012333(gb WP_000703306		0	0	0	0	0	0	0	0	0	0	0
VFG045792(gb WP_000791650		0	0	0	0	0	0	0	0	0	0	0
VFG000886(gb WP_000261297		0	0	0	0	0	0	0	0	0	0	0
VFG000917(gb WP_000089583		0	0	0	0	0	0	0	0	0	0	0.659636
VFG005299(gb WP_001233990		0	0	0	0	0	27.182897	0	0	0	0	0
VFG002341(gb WP_005168813		0	0	0	0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385		0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)		0	0	0	0	0	0	0	0	0	0	0
VFG005894(gb WP_000262522		0	0	0	0	0	4.739481	0	0	0	0	0
VFG034721(gb WP_000556298		0	0	0	0	0	0	0	0	0	0	0.484481
VFG048985(gb WP_014907219		0	0	0	0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459		0	0	0	0	0	0	0	2.50182	0	0	0
VFG005291(gb WP_000723812		0	0	0	0	0	31.064888	0	0	0	0	0
VFG000367(gb WP_001286280		0	0	0	0	0	0	0	0	0	0	0
VFG000878(gb WP_000872015		0	0	0	0	0	0	0	0	0	0	0
VFG000872(gb WP_000044711		0	0	0	0	0	0	0	0	0	0	0
VFG002413(gb WP_000389022		0	0	0	0	0	0	0	0	0	0	0
VFG000919(gb WP_001095619		0	0	0	0	0	0	0	0	0	0	2.774501
VFG001445(gb AAA92657)		0	0	0	0	0	0	0	0	0	0	0
VFG034873(gb WP_001270084		0	0	0	0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289		0	0	0	0	0	0	0	0	0	0	0
VFG002197(gb WP_002387027		0	0	0	0	0	0	0	0	0	0	0
VFG048808(gb WP_004899416		0	0	0	0	0	0	0	0	0	0	0
VFG005295(gb WP_000850672		0	0	0	0	0	0	0	0	0	0	0
VFG013418(gb WP_005694260		0	0	0	0	0	0	0	0	0	0	0
VFG000927(gb WP_000096764		0	0	0	0	0	0	0	0	0	0	1.471788
VFG005289(gb WP_001868236		0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG005858(gb WP_000727597,	0	0	0	0	0	0	12.521429	0	0	0	0	0
VFG042389(gb WP_000012013,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049122(gb WP_012737539,	0	0	0	0	0	0	0	0	0	0	0	0
VFG044331(gb WP_015874966,	0	0	0	0	0	0	0	0	0	0	0	0
VFG010906(gb WP_011213314,	0	0	0	0	0	0	0	0	0	0	0.873758	0
VFG000873	0	0	0	0	0	0	0	0	0	0	0	0
VFG002048(gb WP_000249362,	0	0	0	0	0	0	0	0	0	0	0	0
VFG048478(gb WP_004147521,	0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346,	0	0	0	0	0	0	0	0	0	0	0	0
VFG005277(gb WP_000777402,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002189(gb WP_002359680,	0	0	0	0	0	0	191.633004	0	0	0	0	0
VFG018241(gb WP_001130227,	0	0	0	0	0	0	0	0	10.160157	0	0	0
VFG005280(gb WP_000815035,	0	0	0	0	0	0	57.552441	0	0	0	0	0
VFG038285(gb WP_005308483,	0	0	0	0	0	0	0	0	16.626005	0	0	0
VFG001379(gb NP_214867)	0	0	0	0	0	0	28.95321	0	0	0	0	0
VFG005930(gb WP_000591736,	0	0	0	0	0	0	0	0	0	0	0	0
VFG005230(gb WP_000715197,	0	0	0	0	0	0	6.478648	0	0	0	0	0
VFG049909(gb WP_001113715,	0	0	0	0	0	0	0	0	0	0	0	0
VFG012339(gb WP_000237768,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049153(gb WP_000159201,	0	0	0	0	0	0	0	0	0	0	0	0
VFG000332(gb WP_005632797,	0	0	0	0	0	0	0	0	0	0	0.542877	0
VFG001443(gb AAF37887)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005918(gb WP_000181212,	0	0	0	0	0	0	12.882223	0	0	0	0	0
VFG001713(gb WP_001298062,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002047	0	0	0	0	0	0	0	0	9.025874	0	0	0
VFG050289(gb WP_010934515,	0	0	0	0	0	0	47.827755	0	0	0	0	0
VFG038861(gb WP_005314296,	0	0	0	0	0	0	0	0	0	0	0	0
VFG049147(gb WP_001217110,	0	0	0	0	0	0	0	0	0	0	0	0
VFG002335(gb WP_005160396,	0	0	0	0	0	0	0	0	0	0	0	3.072466
VFG000974(gb WP_010922711,	0	0	0	0	0	0	9.977337	0	0	0	0	0
VFG000883(gb WP_001239363,	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O13	O14	O15	O16	O17	O18	O19	O1	O20	O21	O22	O23
VFG002166(gb WP_010714416	0	0	0	0	0	0	0	0	0	0	0	0
VFG002179(gb AAD09858)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194	0	0	0	0	0	0	0	0	0	0	0	0
VFG012501(gb WP_000271272	0	0	0	0	0	0	0	0	0	0	0	0
BFI77837.1	0	232.952003	1439.121493	0.150715	96.016002	951.847467	69.447828	559.217408	0	935.49114	108.723727	48.770621
XAZ16568.1	0	0	0	0	0	0	0	0	0	0	0.797608	0
XBA31156.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA28592.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA57870.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA30587.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA30727.1	0	0	0	0	0	0	0	0	0	0	0.87778	0
XAZ17659.1	0	0	0	0	0	0	0	0	0	0	3.578038	0
XBA29869.1	0	0	0	0	0	0	0	0	0	0	0	0
pdb 2AVX A	0	0	0	0	0	0	0	0	0	0	0	0
XAZ17661.1	0	0	0	0	0	0	0	0	0	0	2.646161	0
XBA27749.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA27519.1	0	0	0	0	0	0	0	0	0	0	0	0
WP_305165386.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B	0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1	0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A	0	0	0	0	0	0	0	0	0	0	0	0
XBA29828.1	0	0	0	0	0	0	0	10.160157	0	0	0	0
XBA29568.1	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	24371.9353	17095.09054	37692.9308	18241.49938	7455.756908	21903.28277	29876.33531	48032.69823	17721.221	37805.41115	28699.21199	4646.606855
CE_sum	1599.686871	1347.419787	2049.680263	222.917423	71.716666	952.520438	169.628393	732.707403	2381.215475	1042.568331	1604.320273	3.365629
CBM_sum	7611.734475	10843.43476	23130.25198	6763.140501	2621.629016	13133.30726	5524.942079	5542.263524	3745.965245	3185.46139	14826.80007	393.29609
GT_sum	13453.58737	7223.219684	9880.515772	14422.50971	3322.068775	11861.15093	15701.87794	15113.57207	11036.97757	13142.6184	10659.45508	2913.666557
PL_sum	0	0	0	0	0	79.303384	102.935741	0	45.580409	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
evgS	0	0	0	0	0	0	391.043406	0	0	0	0	0
sul2	0	0	0	0	0	0	155.533333	0	0	0	0	0
Bado_rpoB_RIF	32.278143	4847.923418	0	0	0	1913.713866	0	0	3325.727743	0	0	0
msbA	0	0	273.663093	0	0	0	216.991983	0	0	0	0	0
Bbif_ileS_MUP	288.325486	2254.759067	0	0	0	1404.727286	0	0	3400.726356	0	0	0
Spyo_ErmA_MLSb	0	175.016833	0	0	0	0	0	0	0	0	0	0
AcrF	0	0	0	0	0	0	404.500559	0	0	0	0	0
tet(A)	0	0	0	0	0	0	0	0	0	0	0	0
tet(O/W)	0	0	0	0	0	0	0	0	0	0	0	0
mphC	134.435652	0	0	0	0	0	0	0	0	0	0	0
mdtG	0	0	0	0	0	0	135.768387	0	0	0	0	25.255569
rpoB2	0	0	0	0	0	0	0	0	0	0	0	0
eptA	0	0.792881	0	0	0	0	771.305871	0	0	0	0	0
tet(M)	0	0	0	0	0	0	0	0	0	0	0	0
ugd	0	0	0	0	0	0	272.85735	0	0	0	0	0
ErmF	0	67.619981	4.72705	0	0	0	0	16.41278	0	0.481623	0	0
acrB	0	0	0	0	0	0	498.048622	0	0	0	0	0
efrB	0	0	116.482005	0	0	0	0	0	0	0	0	0
bacA	0	0	0	0	0	0	124.027062	0	0	0	0	0
tet(O)	0	0	0	0	0	0	0	0	0	0	0	0
lsaC	858.572979	3070.59493	0	0.972499	0	185.248341	118.215748	6972.569232	827.911351	268.357181	0	0
Kpne_OmpK37	0	0	0	0	0	0	587.3135	0	0	0	0	0
Kpne_KpnE	0	0	0	0	0	0	0	0	0	0	0	0
Mrx	0	0	70.749986	0	0	0	288.614124	0	0	0	0	0
ArnT	0	0	0	0	0	0	25.579715	0	0	0	0	0
qacEdelta1	0	0	0	0	0	0	154.107521	0	0	0	0	0
ErmX	39.093938	14.101313	0	0	0	0	0	0	0	0	0	0
Erm(35)	0	0	0	0	0	0	0	0	0	0	0	0
LptD	0	0	23.185083	0	0	0	462.215625	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5	
norA		0	0	0	0	0	0	0	0	0	0	0	
mdtB		0	0	109.60822	0	0	0	204.9261	0	0	5.466994	0	48.910692
emrA		0	0	0	0	0	0	72.0999	0	0	0	0	0
TEM-126		0	0.874104	0	0	0	0	182.037192	5.231201	0	0	0	19.836985
mecA		0	0	0	0	0	0	0	0	0	0	0	0
emrR		0	0	0	0	0	0	109.678144	0	0	0	0	0
acrD		0	0	0	0	0	0	321.853573	0	0	0	0	0
PC1_blaZ		0	0	0	0	0	0	0	0	0	0	0	0
CfxA6	13.948068		0	0	0	0	0	0	0	0	0	0	0
floR		0	0	0	0	0	0	0	0	0	0	0	0
mdtC		0	4.274495	686.850983	0	0	0	317.511435	0	0	0	0	0
mdtE		0	0	0	0	0	0	253.098175	0	0	0	0	0
AAC(6')-Ib7		0	0	0	0	0	0	0	0	0	0	0	0
mdtH		0	0	0	0	0	0	168.46752	0	0	0	0	0
H-NS		0	0	0	0	0	0	115.590363	0	0	0	0	49.70752
mreA		0	0	0	0	0	0	0	0	0	0	0	0
kdpE		0	0	0	0	0	0	135.450797	0	0	0	0	0
ErmB	196.241245	24.563552	14.626317	0.115877		0	13.640171	254.268079	963.727382	1.051642	974.241011	0	0
marA		0	0	0	0	0	0	123.980532	0	0	0	0	0
qacA		0	4.856221	204.577637	0	0	0	0	0	0	0	0	0
sdiA		0	0	0	0	0	0	101.663077	0	0	0	0	0
tet(W)		0	0	0	0	0	0	0	0	0	0	0	0
mdtO		0	0	0	0	0	0	428.67573	0	0	0	0	0
rosB		0	0	0	0	0	0	99.236189	0	0	0	0	0
leuO		0	0	0	0	0	0	81.438427	0	0	0	0	0
mdtN		0	0	22.747411	0	0	0	203.13981	0	0	0	0	0
eptB		0	0	10.895072	0	0	0	132.268928	10.199171	0	0	0	0
MdtK		0	0	0	0	0	0	280.685414	0	0	0	0	0
CfxA3	2.286198	18.808995	7.687902	0.054118	0.216398	0.316572	0	2.309799	0.368444	0.237136		0	1.179756

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
Saga_mprF		0	0	0	0	0	473.232302	0	0	0	0	0
lnuC		0	0	21.236434	0	0	0	0	0	0	0	0
FosA6		0	0	0	0	0	0	0	0	0	0	0
mgrA		0	0	0	0	0	0	0	0	0	0	0
emrK		0	0	0	0	0	0	131.580515	0	0	0	0
cpxA		0	0	0	0	0	0	238.797864	0	0	0	0
mel		0	119.321581	0	0	0	210.181829	0	0	536.713992	0	0
dfrE		0	0	0	0	0	0	0	0	0	0	0
catP		0	0	0	0	0	0	0	0	0	0	0
AcrE		0	0	0	0	0	0	118.954305	0	0	0	0
PmrF		0	0	0	0	0	0	501.024509	0	0	0	0
YojI		0	0	113.34911	0	0	0	125.272389	0	0	0	0
EcoI_emrE		0	0	0	0	0	0	76.813498	0	0	0	0
arnA		0	0	0	0	0	0	0	0	0	0	0
CTX-M-121		0	0	0	0	0	0	0	0	0	0	0
EcoI_acrA		0	3.044269	0	0	0	0	110.708754	0	0	0	0
mdtF		0	0.336127	0	0	0	0	124.443175	0	0	0	0
emrB		0	0	0	0	3.785271	0	141.210281	0	0	0	0
mdtA		0	0	289.861649	0	0	0	59.571535	0	0	0	124.082091
sulI		0	0	0	0	0	0	321.73203	0	0	0	0
AAC6_IeAPH2_Ia		0	0	0	2.30828	0	0	0	0	0	0	0
dfrF		0	0	0	0	0	0	0	0	0	0	0
EcoI_mdfA		0	0	81.912837	0	0	0	149.704492	0	0	0	0
emrY		0	0	0	0	0	0	70.581191	0	0	0	0
ErmT		0	0.24566	0	0	0	0	0	0	0	0	0
dfrA17		0	0	0	0	0	0	117.842513	0	0	0	0
tet(O/32/O)		0	0	0	0	0	0	0	0	0	0	0
APH(3')-Ia		0	0	0	0	0	0	0	0	0	0	0
EC-5		0	0	10.771033	0	0	0	99.200675	0	0	0	0
APH(3')-IIIa		0	0	0	0	0	0	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
tet(Q)		0	0	0	0	0	0	0	0	0	0	0
gadX		0	0	0	0	0	0	123.642059	0	0	0	0
ThfT		0	0	0	0	0	0	0	0	0	0	0
TolC		0	0.202806	10.110902	0	0	0	97.359489	0	0	0	0
CRP		0	0	0	0	0	0	105.200499	0	0	0	0
rosA		0	0	0	0	0	0	72.402195	0	0	0	0
rsmA		0	0	35.015058	0	0	0	124.324481	0	0	0	0
msrA		0	3.67247	0	0	0	0	0	0	0	0	0
aadA5		0	0	0	0	0	0	531.063936	0	0	0	0
mdtP		0	0	0	0	0	0	265.703709	0	0	0	0
smeE		0	0	0	0	0	0	0	0	0	0	0
OmpA		0	0	0	0	0	0	72.743512	0	0	0	0
Kpne_KpnH		0	0	0	0	0	0	0	0	0	0	0
tet(L)		0	0	0	0	0	0	0	0	0	0	0
tet(40)		0	0	0	0	0	0	0	0	0	0	0
nimK	0.451065	13.686182	3.541361	0	0	0.249813	0	0.544268	0	0	0	0
cmx	0	0	564.133121	1.269298	0	0	0	0	0	0	0	0
AcrS	0	0	0	0	0	0	0	274.502913	0	0	0	0
gadW	0	0	0	0	0	0	0	71.531848	0	0	0	0
tet(37)	0	0	0	0	0	0	0	0	0	0	0	0
GH_sum	15577.49034	33453.55159	5712.20029	43952.89807	25050.08963	29328.88369	20079.29275	36625.33119	25376.76716	24794.19133	39326.01875	10140.4411
CE_sum	1052.701999	1257.08202	124.303707	1369.045677	2521.757848	2990.52454	1709.464415	1460.938929	3043.063808	2994.73348	1127.595486	507.688886
CBM_sum	3371.587134	25238.30333	93.370049	2554.169446	1390.812631	21209.86321	5115.858286	18013.22796	14204.85241	19320.7854	4376.660954	2741.98974
GT_sum	4471.270838	12912.3785	4255.62619	8363.126509	6217.072299	15136.72871	16809.4888	14917.04146	14629.47554	11737.50434	9982.210817	6965.029949
PL_sum	0	120.52731	0	0	0	1162.157129	0	0	0	0	0	0
VFG044326(gb WP_001327262)	0	0	0	0	0	0	470.341834	0	0	0	0	0
VFG045346(gb WP_011149697)	0	0	0	0	0	0	114.927192	0	0	0	0	24.989618
VFG048621(gb WP_004213924)	0	0	0	0	0	0	0	0	0	0	0	0
VFG001814(gb NP_215678)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005286(gb WP_000746885)	0	0	0	0	0	98.849883	0	0	0	0	0	0
VFG046465(gb WP_003028672)	10.528664	84.955906	455.884175	0	0	21.716198	281.911493	1.129005	0	0.873718	0	478.058208

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG050164(gb WP_000723250)		0	0	0	0	0	0	681.741	0	0	0	0
VFG037100(gb WP_010980745)		0	11.704884	0	0	0	0	0	0	0	0	0
VFG000932(gb WP_000026784)		0	0	17.401994	0	0	0	65.526294	0	0	0	7.976304
VFG001447(gb CAA50007)		0	0	101.272001	0	0	0	429.839205	0	0	0	0
VFG049144(gb WP_002892069)		0	0	0	0	0	0	902.549181	0	0	0	0
VFG045349(gb WP_000092542)		0	0	0	0	0	0	461.495135	0	0	0	0
VFG000077(gb NP_465991)	219.713889	5.684186	168.095938	0.033124	0	91.894146	289.111821	1102.85227	0	1160.561397	0	353.035242
VFG048990(gb WP_001741945)	0	0	0	0	0	0	379.836898	0	0	0	0	382.441601
VFG000079(gb NP_463763)	0	9.466189	0	0	0	0	0	0	0	0	0	0
VFG000874(gb WP_000824100)	0	0	59.513944	0	0	0	148.830952	0	0	0	0	0
VFG012095(gb WP_003435012)	0	16.147662	0	0.307988	0	236.467782	0	0	0	0	0	0
VFG000363(gb WP_002212775)	0	0	46.923714	0	0	0	109.735988	0	0	0	0	0
VFG000930(gb WP_000077767)	0	0	175.973155	0	0	0	853.129785	0	0	0	0	48.79894
VFG002164(gb WP_002395058)	0	0	244.770006	0	0	0	0	0	0	0	0	0
VFG002182(gb WP_002376666)	0	0	0	0	0	50.146092	0	0	0	0	0	445.191543
VFG049160(gb WP_001327259)	0	0	0	0	0	0	617.851977	0	0	0	0	0
VFG044159(gb WP_000125846)	0	0	0	0	0	0	166.59665	0	0	0	0	0
VFG002356(gb WP_011816614)	0	0	0	0	0	0	180.649431	0	0	0	0	0
VFG002046(gb WP_000135089)	0	0	0	0	0	0	139.468748	0	0	0	0	0
VFG005966(gb WP_000578446)	0	0	0	0	0	262.926139	0	0	0	0	0	0
VFG012337(gb WP_001370792)	0	0	0	0	0	0	107.867193	0	0	0	0	0
VFG005775(gb WP_000403526)	0	0	0	0	0	32.037372	0	0	0	0	0	0
VFG049159(gb WP_014907260)	0	0	0	0	0	0	67.351021	0	0	0	0	0
VFG002346(gb WP_005160438)	0	0	0	0	0	0	243.762643	0	0	0	0	0
VFG005790(gb WP_000033003)	0	0	0	0	0	277.747694	0	0	0	0	0	0
VFG049157(gb WP_014907259)	0	0	0	0	0	0	601.530564	0	0	0	0	0
VFG000875(gb WP_000066579)	0	0	0	0	0	0	168.469548	0	0	0	0	0
VFG048697(gb WP_015874721)	0	0	0	0	0	0	253.032847	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG002319(gb WP_005160341)		0	0	0	0	0	0	103.597104	0	0	0	0
VFG048797		0	0	0	0	0	0	272.85735	0	0	0	0
VFG002190(gb WP_002362225)		0	0	0	0	0	0	0	0	0	0	36.718165
VFG002307(gb NP_461452)		0	0	0	0	0	0	138.379076	0	0	0	0
VFG002322(gb WP_011816590)		0	0	0	0	0	0	411.543507	0	0	0	0
VFG005215(gb WP_000743858)		0	0	0	0	0	83.36925	0	0	0	0	0
VFG012343(gb WP_001234182)		0	0	279.813649	0	0	0	172.595346	0	0	0	0
VFG000905(gb WP_001546261)		0	0	0	0	0	0	122.147394	0	0	0	0
VFG001359(gb WP_000733059)		0	0	0	0	0	68.861304	0	0	0	0	0
VFG050166(gb WP_000066003)		0	0	0	0	0	0	96.230948	0	0	0	0
VFG001405(gb NP_217219)	54.428737	40.646213	0	0	0	0	0	0	0	0	0	0
VFG002054(gb WP_000633233)	0	0	0	0	0	0	0	115.915614	0	0	0	0
VFG005757(gb WP_001101136)	0	0	0	0	0	0	358.422795	0	0	0	0	0
VFG005978(gb WP_000686634)	0	0.818667	0	0	0	0	0	0	0	0	6.134766	0
VFG049116(gb WP_012737528)	0	0	0	0	0	0	0	57.531782	0	0	0	0
VFG005486(gb WP_000417180)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005906(gb WP_001093064)	0	0	0	0	0	0	193.935843	0	0	0	0	0
VFG005778(gb WP_000462410)	0	0	0	0	0	0	313.043888	0	0	0	0	0
VFG048643(gb WP_014907727)	0	0	0	0	0	0	0	199.743374	0	0	0	0
VFG005584(gb WP_000403400)	0	0	0	0	0	0	1034.143044	0	0	0	0	0
VFG048830(gb WP_014907233)	0	0	57.663252	0	0	0	0	108.170127	0	65.662448	0	0
VFG048277(gb WP_009308599)	0	0	0	0	0	0	0	0	0	0	0	0
VFG050159(gb WP_001331697)	0	0	0	0	0	0	0	114.246533	0	0	0	0
VFG000928(gb WP_000640938)	0	0	0	0	0	0	0	140.624279	0	0	0	0
VFG001444(gb AAG10151)	0	0	89.504068	0	0	0	0	269.854749	0	0	0	30.496685
VFG048687(gb WP_002902160)	0	0	0	0	0	0	0	163.005675	0	0	0	0
VFG000888(gb WP_000723799)	0	0	0	0	0	0	0	150.137441	0	0	0	0
VFG005787(gb WP_000118217)	0	0	0	0	0	0	339.606954	0	0	0	0	0
VFG044332(gb WP_015874967)	0	0	0	0	0	0	0	102.46283	0	0	0	0
VFG000891(gb WP_000006208)	0	0	0	0	0	0	0	103.462159	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG000939(gb WP_001287497)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000881	0	0	0	0	0	0	249.787489	0	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0	0	0	100.385268	0	0	0	0	0
VFG000907(gb WP_000376545)	0	0	24.528744	0	0	0	301.59934	0	0	0	0	0
VFG043504(gb WP_000671444)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049118(gb WP_012737529)	0	2.13792	0	0	0	0	179.341394	0	0	0	0	0
VFG005197(gb WP_000006706)	0	0	0	0	0	0	0	0	0	0	0	0
VFG044328(gb WP_015874963)	0	0	0	0	0	0	315.916674	0	0	0	0	0
VFG050160(gb WP_000030755)	0	0	112.524425	0	0	0	70.020851	0	0	0	0	0
VFG002331(gb WP_026018001)	0	0	0	0	0	0	264.170723	0	0	0	0	0
VFG048257(gb WP_004174507)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049162(gb WP_002430641)	0	0	0	0	0	0	211.957417	0	0	0	0	0
VFG048841(gb WP_014907232)	0	0	0	0	0	0	188.693374	0	0	0	0	0
VFG012505(gb WP_000933673)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049902(gb WP_011310140)	0	0	0	0	0	0	658.05427	0	0	0	0	40.941298
VFG049158(gb WP_001297937)	0	0	0	0	0	0	301.476673	0	0	0	0	0
VFG000923(gb WP_001034892)	0	0	0	0	0	0	57.88929	0	0	0	0	0
VFG002416(gb WP_001265657)	0	0	0	0	0	0	18.781919	0	0	0	0	0
VFG000889(gb WP_000113351)	0	0	0	0	0	0	127.747395	0	0	0	0	0
VFG012513(gb WP_001221122)	0	0	0	0	0	0	414.579066	0	0	0	0	0
VFG006717(gb NP_465159)	0	0	0	0	0	426.378485	0	0	0	0	0	0
VFG043213	0	0	0	0	0	0	135.717175	0	0	0	0	0
VFG012509(gb WP_001111200)	0	0	0	0	0	0	886.929951	0	0	0	0	0
VFG038380(gb WP_043163044)	0	0	0	0	0	0	89.911429	0	0	0	0	38.855769
VFG048771(gb WP_004190505)	0	0	0	0	0	0	313.059296	0	0	0	0	0
VFG044329(gb WP_015874964)	0	0	0	0	0	0	706.705983	0	0	0	0	0
VFG000477(gb NP_461845)	0	0	0	0	0	0	301.52914	0	0	0	0	0
VFG000964(gb WP_010922799)	0	0	0	0	0	196.518381	0	0	0	0	0	334.295668
VFG005781(gb WP_000650746)	0	0	0	0	0	166.031837	0	0	0	0	0	0
VFG000959(gb WP_010922232)	0	0	0	0	0	195.232852	0	0	0	0	0	0
VFG000924(gb WP_001234311)	0	0	0	0	0	0	231.956359	0	0	0	0	0
VFG050165(gb WP_001259305)	0	0	0	0	0	0	200.676265	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG013368(gb WP_005693225)	0	0	869.584946	0	0	0	0	0	0	0	0	0
VFG044333(gb WP_015874968)	0	0	0	0	0	0	665.303713	0	0	0	0	0
VFG048972(gb WP_014907221)	0	0	0	0	0	0	69.368361	0	0	0	0	0
VFG006002(gb WP_000197412)	0	0	0	0	0	72.499789	0	0	0	0	0	0
VFG001386(gb NP_215271)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049149(gb WP_041169023)	0	0	0	0	0	0	111.155583	0	0	0	0	0
VFG005942(gb WP_000660895)	0	0	0	0	0	190.821926	0	0	0	0	0	0
VFG048348(gb WP_004149658)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005800(gb WP_000489955)	0	0	0	0	0	72.039616	0	0	0	0	0	0
VFG000940(gb WP_001299620)	0	0	0	0	0	0	0	0	0	0	103.046014	0
VFG000906(gb WP_001142375)	0	0	0	0	0	0	280.281279	0	0	0	0	0
VFG034679	0	0	0	0	0	0	203.857312	0	0	0	0	0
VFG002412(gb WP_000716386)	0	0	0	0	0	0	396.811598	0	0	0	0	0
VFG002055(gb WP_000097229)	0	0	0	0	0	0	153.088362	0	0	0	0	0
VFG000368(gb WP_000703040)	0	0	0	0	0	0	99.020738	0	0	0	0	0
VFG044165(gb WP_001041793)	0	0	0	0	0	0	55.315785	0	0	0	0	0
VFG049156(gb WP_077265119)	0	0	719.71641	0	0	0	913.405147	0	0	0	0	0
VFG000362	0	0	0	0	0	0	251.089602	0	0	0	0	0
VFG012327(gb WP_011076307)	0	0	0	0	0	0	89.320281	0	0	0	0	0
VFG002417(gb WP_001301550)	0	0	0	0	0	0	102.347163	0	0	0	0	0
VFG049150(gb WP_000982270)	0	0	0	0	0	0	641.91208	0	0	0	0	0
VFG000929(gb WP_001375021)	0	0	0	0	0	0	94.267233	0	0	0	0	0
VFG000331(gb WP_005693548)	0	0	0	0	0	0	115.879589	0	0	0	27.115255	0
VFG000080(gb NP_464522)	0	0	0	0	0	0	0	0	0	0	0	0
VFG049154(gb WP_014907257)	0	0	0	0	0	0	493.615739	0	0	0	0	0
VFG050162(gb WP_001161829)	0	0	0	0	0	0	718.220735	0	0	0	0	0
VFG047708(gb WP_003022611)	0	0	0	0	0	0	68.264065	0	0	0	0	0
VFG050157(gb WP_001331698)	0	0	0	0	0	0	120.69633	0	0	0	0	0
VFG002338	0	0	0	0	0	0	82.85523	0	0	0	0	0
VFG043626(gb WP_000820818)	0	0	0	0	0	0	0	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG043211(gb WP_032902679)		0	0	0	0	0	0	56.883572	0	0	0	0
VFG000937(gb WP_000750139)		0	0	0	0	0	0	0	0	0	0	0
VFG044325(gb WP_002212761)		0	0	0	0	0	0	54.356475	0	0	0	0
VFG044327(gb WP_000140406)		0	0	0	0	0	0	162.903918	0	0	0	0
VFG013286(gb WP_005694325)		0	0	0	0	0	0	0	0	0	0	0
VFG049161(gb WP_001029878)		0	0	0	0	0	0	201.320519	0	0	0	0
VFG049155(gb WP_000829570)		0	0	92.912436	0	0	0	96.522628	0	0	0	0
VFG001795(gb BAC98831)		0	0	0	0	0	0	0	0	0	0	0
VFG044172(gb WP_000622316)		0	0	0	0	0	0	74.801707	0	0	0	0
VFG038395(gb WP_011705721)		0	0	35.254715	0	0	0	125.1727	0	0	0	0
VFG045788(gb WP_001189322)		0	0	0	0	0	0	106.125419	0	0	0	0
VFG002172(gb WP_010710127)		0	0	0	1.1058	0	0	0	0	0	0	0
VFG050168(gb WP_000590258)		0	0	0	0	0	0	178.569321	0	0	0	0
VFG049114(gb WP_012737527)		0	0	0	0	0	0	444.603872	0	0	0	0
VFG050161(gb WP_000579525)		0	0	0	0	0	0	774.040134	0	0	0	0
VFG002186(gb WP_002387129)		0	0	0	6.588538	0	0	0	0	0	0	0
VFG048429(gb WP_004183353)		0	0	0	0	0	0	0	0	0	0	0
VFG034849(gb WP_000129338)		0	0	0	0	0	0	0	0	0	0	0
VFG000876(gb WP_000120946)		0	0	364.615592	0	0	0	488.429049	0	0	0	0
VFG000861(gb WP_001045649)		0	0	198.477871	0	0	0	272.320015	0	0	0	0
VFG048874(gb WP_041937789)		0	0	0	0	0	0	135.717175	0	0	0	0
VFG048885(gb WP_014907227)		0	0.160219	0	0	0	0	114.927192	0	0	0	0
VFG049148(gb WP_041168941)		0	0	0	0	0	0	1213.06804	0	0	0	0
VFG049120(gb WP_012737535)		0	0	53.596553	0	0	0	183.819548	0	0	0	0
VFG034866(gb WP_000900547)		0	0	0	0	0	0	0	0	0	0	0
VFG013346(gb WP_005693178)		0	0	0	0	0	0	74.325332	0	0	0	0
VFG043206(gb WP_005164479)		0	0	218.710017	0	0	0	45.04152	0	0	0	0
VFG043212(gb WP_005168761)		0	0	0	0	0	0	354.983489	0	0	0	0
VFG045794(gb WP_000992818)		0	0	0	0	0	0	106.125419	0	0	0	0
VFG001855(gb WP_197535493)		0	0	26.597059	0	0	0	112.440191	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG000935(gb WP_001222189)		0	0	0	0	0	0	315.327711	0	0	0	0
VFG000884(gb WP_000654937)		0	0	0	0	0	0	463.849844	0	0	0	0
VFG050158(gb WP_000905916)		0	0	0	0	0	0	512.93687	0	0	0	0
VFG000908(gb WP_000860472)		0	0	0	0	0	0	129.181664	0	0	0	0
VFG000871		0	0	0	0	0	0	100.610018	0	0	0	0
VFG002049(gb WP_001173470)		0	0	0	0	0	0	179.378221	0	0	0	0
VFG050163(gb WP_000197083)		0	0	0	0	0	0	136.755465	0	0	0	0
VFG000879(gb WP_000832235)		0	0	0	0	0	0	404.5357	0	0	0	0
VFG002196		0	0	0	0	0	0	0	0	0	0	0
VFG049133(gb WP_004177236)		0	3.044269	0	0	0	0	110.708754	0	0	0	0
VFG049908(gb WP_001080148)		0	0	0	0	0	0	158.323196	0	0	0	0
VFG002415(gb WP_001131063)		0	0	0	0	0	0	286.32815	0	0	0	0
VFG000449(gb NP_459544)		0	0	0	0	0	0	0	0	0	0	0
VFG000916(gb WP_001017192)		0	0	20.976977	0	0	0	254.207092	0	0	0	0
VFG002358(gb WP_005164496)		0	0	0	0	0	0	212.88252	0	0	0	0
VFG002051(gb WP_001115126)		0	0	0	0	0	0	80.709296	0	0	0	0
VFG048980(gb WP_041937790)		0	0	0	0	0	0	0	0	0	0	0
VFG000361(gb WP_000982866)		0	0	0	0	0	0	124.803964	0	0	0	0
VFG002270(gb WP_011180104)		0	0	0	0	0	0	0	0	0	0	0
VFG048518(gb WP_012737617)		0	0	0	0	0	0	0	0	0	0	0
VFG050169(gb WP_000124301)		0	0	0	0	0	0	330.832551	0	0	0	0
VFG013069(gb WP_005019013)		0	0	0	0	0	0	210.993571	0	0	0	0
VFG049124(gb WP_012737540)		0	0	0	0	0	0	148.703899	0	0	0	0
VFG049915(gb WP_001142968)		0	0	0	0	0	0	187.239514	0	0	0	0
VFG005990(gb WP_000659582)		0	0	0	0	0	125.642135	0	0	0	0	0
VFG049903(gb WP_001240533)		0	0	0	0	0	0	79.345167	4.555936	0	0	17.312484
VFG043209(gb WP_005168769)		0	0	29.472101	0	0	0	253.751725	0	0	0	0
VFG034754(gb WP_000081129)		0	0	289.861649	0	0	0	119.14307	0	43.717773	0	0
VFG045473(gb AAM75250)		0	0	0	0	0	0	0	0	0	0	0
VFG045791(gb WP_000481500)		0	0	0	0	0	0	212.203753	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG049917		0	0	0	0	0	0	0	0	0	0	0
VFG005784(gb WP_001092618)		0	0	0	0	0	103.045365	0	0	0	0	0
VFG006034(gb WP_000064997)		0	0	0	0	0	109.790843	0	0	0	0	0
VFG047039(gb WP_003018140)		0	577.803884	0	0	0	236.706048	0	0	0	0	0
VFG012333(gb WP_000703306)		0	0	91.086836	0	0	0	37.85665	0	0	0	0
VFG045792(gb WP_000791650)		0	0	0	0	0	0	49.048407	0	0	0	0
VFG000886(gb WP_000261297)		0	0	0	0	0	0	271.499388	0	0	0	0
VFG000917(gb WP_000089583)		0	0	0	0	0	0	233.59577	0	0	0	0
VFG005299(gb WP_001233990)		0	0	0	0	0	280.45832	0	0	0	0	0
VFG002341(gb WP_005168813)		0	8.319439	0	0	0	0	0	0	0	0	0
VFG006024(gb WP_000565385)		0	0	0	0	0	0	0	0	0	0	0
VFG000474(gb NP_460200)		0	0	0	0	0	0	46.322955	0	0	0	0
VFG005894(gb WP_000262522)		0	0	0	0	0	91.381503	0	0	0	0	0
VFG034721(gb WP_000556298)		0	0	19.511378	0	0	0	126.505931	0	0	0	8.937597
VFG048985(gb WP_014907219)		0	0	0	0	0	0	0	0	0	0	0
VFG013412(gb WP_005693459)		0	0	22.075496	0	0	0	73.930657	0	0	0	0
VFG005291(gb WP_000723812)		0	0	0	0	0	120.701067	0	0	0	0	0
VFG000367(gb WP_001286280)		0	0	0	0	0	0	40.399278	0	0	0	0
VFG000878(gb WP_000872015)		0	0	0	0	0	0	132.027651	0	0	0	0
VFG000872(gb WP_000044711)		0	0	139.577266	0	0	0	231.118181	0	0	0	0
VFG002413(gb WP_000389022)		0	0	63.422147	0	0	0	103.407837	0	0	0	28.680986
VFG000919(gb WP_001095619)		0	0	66.007375	0	0	0	315.446548	0	0	0	0
VFG001445(gb AAA92657)		0	0	0	0	0	0	140.284018	0	0	0	0
VFG034873(gb WP_001270084)		0	0	0	0	0	0	0	0	0	0	0
VFG049905(gb WP_000343289)		0	0	0	0	0	0	97.693555	0	0	0	0
VFG002197(gb WP_002387027)		0	0	0	0	0	0	0	0	0	0	0
VFG048808(gb WP_004899416)		0	0	0	0	0	0	91.547934	0	0	0	0
VFG005295(gb WP_000850672)		0	0	0	0	0	48.351015	0	0	0	0	0
VFG013418(gb WP_005694260)		0	0	0	0	0	0	413.931619	0	0	0	0
VFG000927(gb WP_000096764)		0	0	0	0	0	0	97.600484	0	0	17.090955	0
VFG005289(gb WP_001868236)		0	0	0	0	0	321.361286	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG005858(gb WP_000727597)	0	0	0	0	0	0	56.394958	0	0	0	0	0
VFG042389(gb WP_000012013)	0	0	751.491562	0	0	0	348.197663	0	0	0	0	0
VFG049122(gb WP_012737539)	0	0	44.279347	0	0	0	83.163637	0	0	0	0	0
VFG044331(gb WP_015874966)	0	0	0	0	0	0	35.831896	0	0	0	0	0
VFG010906(gb WP_011213314)	0	0	35.015058	0	0	0	124.324481	0	0	0	0	0
VFG000873	0	0	0	0	0	0	48.605164	0	0	0	0	0
VFG002048(gb WP_000249362)	0	0	0	0	0	0	380.963645	0	0	0	0	0
VFG048478(gb WP_004147521)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005834(gb WP_000802346)	0	0	0	0	0	171.422925	0	0	0	0	0	0
VFG005277(gb WP_000777402)	0	0	0	0	0	189.142418	0	0	0	0	0	0
VFG002189(gb WP_002359680)	0	0	0	0	0	0	0	0	0	0	0	0
VFG018241(gb WP_001130227)	0	0	0	0	3.785271	0	58.142646	0	0	0	0	0
VFG005280(gb WP_000815035)	0	0	0	0	0	124.591215	0	0	0	0	0	0
VFG038285(gb WP_005308483)	0	0	36.021752	0	0	0	157.978339	0	0	0	0	0
VFG001379(gb NP_214867)	0	0	0	0	0	0	0	0	0	0	0	0
VFG005930(gb WP_000591736)	0	0	0	0	0	85.496502	0	0	0	0	0	0
VFG005230(gb WP_000715197)	0	0	0	0	0	93.283449	0	0	0	0	0	0
VFG049909(gb WP_001113715)	0	0	0	0	0	0	79.324287	0	0	0	0	0
VFG012339(gb WP_000237768)	0	0	0	0	0	0	87.475729	0	0	0	0	0
VFG049153(gb WP_000159201)	0	0	0	0	0	0	217.045935	0	0	0	0	0
VFG000332(gb WP_005632797)	0	0	0	0	0	0	114.208869	0	0	1.015397	0	0
VFG001443(gb AAF37887)	0	0	0	0	0	0	72.743512	0	0	0	0	0
VFG005918(gb WP_000181212)	0	0	0	0	0	91.133992	0	0	0	0	0	0
VFG001713(gb WP_001298062)	0	0	0	0	0	0	155.053274	0	0	0	0	0
VFG002047	0	0	0	0	0	0	62.073175	0	0	0	0	0
VFG050289(gb WP_010934515)	0	8.806054	0	0	0	0	0	0	0	0	0	0
VFG038861(gb WP_005314296)	0	0	0	0	0	0	194.735875	0	0	0	0	0
VFG049147(gb WP_001217110)	0	0	0	0	0	0	447.837678	0	0	0	0	0
VFG002335(gb WP_005160396)	0	0	0	0	0	0	74.492998	0	0	0	0	0
VFG000974(gb WP_010922711)	0	0	0	0	0	69.115664	0	0	0	0	0	0
VFG000883(gb WP_001239363)	0	0	0	0	0	0	148.343788	0	0	0	0	0

Gene	O24	O26	O27	O28	O29	O2	O30	O31	O32	O3	O4	O5
VFG002166(gb WP_010714416)	0	0	0	0	0	0	0	0	0	0	0	0
VFG002179(gb AAD09858)	0	0	0	0	0	0	0	0	0	0	0	0
VFG000926(gb WP_001443194)	0	0	0	0	0	0	65.102654	0	0	0	0	0
VFG012501(gb WP_000271272)	0	0	0	0	0	0	323.328732	0	0	0	0	0
BFI77837.1	407.198842	52.901968	9.820062	801.176275	1574.072273	136.469339	338.949976	1594.397387	1.043954	1493.320168	756.368446	503.736068
XAZ16568.1	0	0	397.023825	0	0	0	397.842773	0	0	0	0	0
XBA31156.1	0	0	0	0	0	0	113.654995	0	0	0	0	0
XBA28592.1	0	0	59.513944	0	0	0	197.436116	0	0	0	0	0
XBA57870.1	0	0	0	0	0	0	541.919092	0	0	0	0	0
XBA30587.1	0	0	0	0	0	0	112.121152	0	0	0	0	0
XBA30727.1	0	0	0	0	0	0	80.810321	0	0	0	0	16.038429
XAZ17659.1	0	0	0	0	0	0	284.033	0	0	0	0	0
XBA29869.1	0	0	0	0	0	0	514.790347	0	0	0	0	0
pdb 2AVX A	0	1.852611	0	0	8.234773	0	178.575453	0	0	0	0	0
XAZ17661.1	0	0	0	0	0	0	396.811598	0	0	0	0	0
XBA27749.1	0	0	31.302985	0	0	0	85.021267	0	0	0	0	0
XBA27519.1	0	0	0	0	0	0	212.203753	0	0	0	0	0
WP_305165386.1	0	0	0	0	0	0	0	0	0	0	0	0
XBA55473.1	0	0	0	0	0	0	0	0	0	0	0	0
pdb 3EJW B	0	0	0	0	0	0	0	0	0	0	0	0
WP_116363378.1	0	0	0	0	0	0	0	0	0	0	0	0
pdb 7SIE A	0	0	0	0	0	0	0	0	0	0	0	0
XBA29828.1	0	0	0	0	3.785271	0	58.142646	0	0	0	0	0
XBA29568.1	0	0	0	0	0	0	135.569542	0	0	0	0	11.861086
GH_sum	15577.49034	33453.55159	5712.20029	43952.89807	25050.08963	29328.88369	20079.29275	36625.33119	25376.76716	24794.19133	39326.01875	10140.4411
CE_sum	1052.701999	1257.08202	124.303707	1369.045677	2521.757848	2990.52454	1709.464415	1460.938929	3043.063808	2994.73348	1127.595486	507.688886
CBM_sum	3371.587134	25238.30333	93.370049	2554.169446	1390.812631	21209.86321	5115.858286	18013.22796	14204.85241	19320.7854	4376.660954	2741.98974
GT_sum	4471.270838	12912.3785	4255.62619	8363.126509	6217.072299	15136.72871	16809.4888	14917.04146	14629.47554	11737.50434	9982.210817	6965.029949
PL_sum	0	120.52731	0	0	0	1162.157129	0	0	0	0	0	0

Gene	O6	O7	O8	O9
evgS		0	0	0
sul2		0	0	0
Bado_rpoB_RIF		0	460.799605	1428.314178
msbA		0	0	0
Bbif_ileS_MUP		0	324.364169	1066.464686
Spyo_ErmA_MLSb		0	0	941.079735
AcrF		0	0	0
tet(A)		0	0	0
tet(O/W)		0	0	0
mphC		0	0	0
mdtG		0	0	0
rpoB2		0	0	0
eptA		0	0	0
tet(M)		0	0	0
ugd		0	0	0
ErmF		0	6.708638	1.106443
acrB		0	0	0
efrB		0	96.464492	0
bacA		0	0	0
tet(O)		0	0	0
lsaC	3440.559079	2233.60654	6.910596	1227.437995
Kpne_OmpK37	0	0	0	0
Kpne_KpnE	0	0	0	0
Mrx	0	0	0	0
ArnT	0	0	0	0
qacEdelta1	0	0	0	0
ErmX	0	0	0	0
Erm(35)	0	0	0	0
LptD	0	0	0	0

Gene	O6	O7	O8	O9
norA		0	0	0
mdtB		0	0	0
emrA		0	0	0
TEM-126		0	0	0
mecA		0	266.859208	0
emrR		0	0	0
acrD		0	0	0
PC1_blaZ		0	0	0
CfxA6		0	0	0
floR		0	0	0
mdtC		0	0	0
mdtE		0	0	0
AAC(6')-Ib7		0	0	0
mdtH		0	0	0
H-NS		0	0	0
mreA		0	0	335.050564
kdpE		0	0	0
ErmB	233.211054		261.430471	46.267043
marA		0	0	0
qacA		0	0	0
sdiA		0	0	0
tet(W)		0	0	0
mdtO		0	0	0
rosB		0	0	0
leuO		0	0	0
mdtN		0	0	0
eptB		0	0	0
MdtK		0	0	0
CfxA3		0	2.163343	0

Gene	O6	O7	O8	O9
Saga_mprF	0	0	0	0
lnuC	0	18.103555	224.172932	0
FosA6	0	0	0	0
mgrA	0	0	0	0
emrK	0	0	0	0
cpxA	0	0	0	0
mel	0	82.082392	0	0
dfrE	0	0	0	0
catP	0	0	0	0
AcrE	0	0	0	0
PmrF	0	0	0	0
YojI	0	0	0	0
EcoI_emrE	0	0	0	0
arnA	0	0	0	0
CTX-M-121	0	0	0	0
EcoI_acrA	0	0	0	0
mdtF	0	0	0	0
emrB	0	0	0	0
mdtA	0	0	0	0
sulI	0	0	0	0
AAC6_IeAPH2_Ia	0	0	0	0
dfrF	0	0	0	0
EcoI_mdfA	0	0	0	0
emrY	0	0	0	0
ErnT	0	0	2.452741	0
dfrA17	0	0	0	0
tet(O/32/O)	0	0	0	0
APH(3')-Ia	0	0	0	0
EC-5	0	0	0	0
APH(3')-IIIa	0	0	0	0

Gene	O6	O7	O8	O9
tet(Q)		0	0	0
gadX		0	11.92085	0
ThfT		0	129.822417	0
TolC		0	0	0
CRP		0	0	0
rosA		0	0	0
rsmA		0	0	0
msrA		0	0	0
aadA5		0	0	0
mdtP		0	0	0
smeE		0	0	0
OmpA		0	0	0
Kpne_KpnH		0	0	0
tet(L)		0	0	0
tet(40)		0	0	0
nimK		0	1.422083	0
cmx		0	34.937885	0
AcrS		0	0	0
gadW		0	0	0
tet(37)		0	0	0
GH_sum	28299.61507	17623.34383	34274.08255	23464.85733
CE_sum	1087.887285	678.320236	836.607824	2223.448249
CBM_sum	17762.83689	12977.87681	6439.896374	11121.93857
GT_sum	12471.29905	6984.208552	10394.95203	5828.178496
PL_sum	0	0	304.525428	0
VFG044326(gb WP_001327262)	0	0	0	0
VFG045346(gb WP_011149697)	0	0	0	0
VFG048621(gb WP_004213924)	0	0	0	0
VFG001814(gb NP_215678)	0	0	0	0
VFG005286(gb WP_000746885)	0	0	0	0
VFG046465(gb WP_003028672)	0	20.49904	58.813528	4.091277

Gene	O6	O7	O8	O9
VFG050164(gb WP_000723250)		0	0	0
VFG037100(gb WP_010980745)		0	0	0
VFG000932(gb WP_000026784)		0	0	0
VFG001447(gb CAA50007)		0	0	0
VFG049144(gb WP_002892069)		0	0	0
VFG045349(gb WP_000092542)		0	0	0
VFG000077(gb NP_465991)	911.331132	554.609914	175.974101	974.329211
VFG048990(gb WP_001741945)		0	0	0
VFG000079(gb NP_463763)		0	0	76.010299
VFG000874(gb WP_000824100)		0	0	0
VFG012095(gb WP_003435012)		0	171.539824	0
VFG000363(gb WP_002212775)		0	0	0
VFG000930(gb WP_000077767)		0	0	0
VFG002164(gb WP_002395058)		0	105.60946	0
VFG002182(gb WP_002376666)		0	0	0
VFG049160(gb WP_001327259)		0	0	0
VFG044159(gb WP_000125846)		0	0	0
VFG002356(gb WP_011816614)		0	0	0
VFG002046(gb WP_000135089)		0	0	0
VFG005966(gb WP_000578446)		0	0	0
VFG012337(gb WP_001370792)		0	0	0
VFG005775(gb WP_000403526)		0	0	0
VFG049159(gb WP_014907260)		0	0	0
VFG002346(gb WP_005160438)		0	0	0
VFG005790(gb WP_000033003)		0	0	0
VFG049157(gb WP_014907259)		0	0	0
VFG000875(gb WP_000066579)		0	0	0
VFG048697(gb WP_015874721)		0	0	0

Gene	O6	O7	O8	O9
VFG002319(gb WP_005160341)		0	0	0
VFG048797		0	0	0
VFG002190(gb WP_002362225)		0	0	0
VFG002307(gb NP_461452)		0	0	0
VFG002322(gb WP_011816590)		0	0	0
VFG005215(gb WP_000743858)		0	0	0
VFG012343(gb WP_001234182)		0	0	0
VFG000905(gb WP_001546261)		0	0	0
VFG001359(gb WP_000733059)		0	0	141.05946
VFG050166(gb WP_000066003)		0	0	0
VFG001405(gb NP_217219)		0	2.929619	0
VFG002054(gb WP_000633233)		0	0	0
VFG005757(gb WP_001101136)		0	0	0
VFG005978(gb WP_000686634)		0	0	0
VFG049116(gb WP_012737528)		0	0	0
VFG005486(gb WP_000417180)		0	0	0
VFG005906(gb WP_001093064)		0	0	0
VFG005778(gb WP_000462410)		0	0	0
VFG048643(gb WP_014907727)		0	0	0
VFG005584(gb WP_000403400)		0	0	0
VFG048830(gb WP_014907233)		0	0	0
VFG048277(gb WP_009308599)		0	0	0
VFG050159(gb WP_001331697)		0	0	0
VFG000928(gb WP_000640938)		0	0	0
VFG001444(gb AAG10151)		0	0	0
VFG048687(gb WP_002902160)		0	0	0
VFG000888(gb WP_000723799)		0	0	0
VFG005787(gb WP_000118217)		0	0	0
VFG044332(gb WP_015874967)		0	0	0
VFG000891(gb WP_000006208)		0	0	0

Gene	O6	O7	O8	O9
VFG000939(gb WP_001287497)	0	0	0	0
VFG000881	0	0	0	0
VFG000475(gb NP_460201)	0	0	0	0
VFG000907(gb WP_000376545)	0	0	0	0
VFG043504(gb WP_000671444)	0	0	0	0
VFG049118(gb WP_012737529)	0	0	0	0
VFG005197(gb WP_000006706)	0	0	0	0
VFG044328(gb WP_015874963)	0	0	0	0
VFG050160(gb WP_000030755)	0	0	0	0
VFG002331(gb WP_026018001)	0	0	0	0
VFG048257(gb WP_004174507)	0	0	0	0
VFG049162(gb WP_002430641)	0	0	0	0
VFG048841(gb WP_014907232)	0	0	0	0
VFG012505(gb WP_000933673)	0	0	0	0
VFG049902(gb WP_011310140)	0	0	0	0
VFG049158(gb WP_001297937)	0	0	0	0
VFG000923(gb WP_001034892)	0	0	0	0
VFG002416(gb WP_001265657)	0	0	0	0
VFG000889(gb WP_000113351)	0	0	0	0
VFG012513(gb WP_001221122)	0	0	0	0
VFG006717(gb NP_465159)	0	0	0	0
VFG043213	0	0	0	0
VFG012509(gb WP_001111200)	0	0	0	0
VFG038380(gb WP_043163044)	0	0	0	0
VFG048771(gb WP_004190505)	0	0	0	0
VFG044329(gb WP_015874964)	0	0	0	0
VFG000477(gb NP_461845)	0	0	0	0
VFG000964(gb WP_010922799)	0	0	279.115447	0
VFG005781(gb WP_000650746)	0	0	0	0
VFG000959(gb WP_010922232)	0	0	763.865107	0
VFG000924(gb WP_001234311)	0	0	0	0
VFG050165(gb WP_001259305)	0	0	0	0

Gene	O6	O7	O8	O9
VFG013368(gb WP_005693225)		0	0	0
VFG044333(gb WP_015874968)		0	0	0
VFG048972(gb WP_014907221)		0	0	0
VFG006002(gb WP_000197412)		0	0	0
VFG001386(gb NP_215271)		0	0	0
VFG049149(gb WP_041169023)		0	0	0
VFG005942(gb WP_000660895)		0	0	0
VFG048348(gb WP_004149658)		0	0	0
VFG005800(gb WP_000489955)		0	0	0
VFG000940(gb WP_001299620)		0	0	0
VFG000906(gb WP_001142375)		0	0	0
VFG034679		0	0	0
VFG002412(gb WP_000716386)		0	0	0
VFG002055(gb WP_000097229)		0	0	0
VFG000368(gb WP_000703040)		0	0	0
VFG044165(gb WP_001041793)		0	0	0
VFG049156(gb WP_077265119)		0	0	0
VFG000362		0	0	0
VFG012327(gb WP_011076307)		0	0	0
VFG002417(gb WP_001301550)		0	0	0
VFG049150(gb WP_000982270)		0	0	0
VFG000929(gb WP_001375021)		0	0	0
VFG000331(gb WP_005693548)		0	0	0
VFG000080(gb NP_464522)		0	0	0
VFG049154(gb WP_014907257)		0	0	0
VFG050162(gb WP_001161829)		0	0	0
VFG047708(gb WP_003022611)		0	0	0
VFG050157(gb WP_001331698)		0	0	0
VFG002338		0	0	0
VFG043626(gb WP_000820818)		0	0	0

Gene	O6	O7	O8	O9
VFG043211(gb WP_032902679)		0	0	0
VFG000937(gb WP_000750139)		0	0	0
VFG044325(gb WP_002212761)		0	0	0
VFG044327(gb WP_000140406)		0	0	0
VFG013286(gb WP_005694325)		0	0	449.110862
VFG049161(gb WP_001029878)		0	0	0
VFG049155(gb WP_000829570)		0	0	0
VFG001795(gb BAC98831)		0	0	0
VFG044172(gb WP_000622316)		0	0	0
VFG038395(gb WP_011705721)		0	0	0
VFG045788(gb WP_001189322)		0	0	0
VFG002172(gb WP_010710127)		0	0	0
VFG050168(gb WP_000590258)		0	0	0
VFG049114(gb WP_012737527)		0	0	0
VFG050161(gb WP_000579525)		0	0	0
VFG002186(gb WP_002387129)		0	0	0
VFG048429(gb WP_004183353)		0	0	0
VFG034849(gb WP_000129338)		0	0	0
VFG000876(gb WP_000120946)		0	0	0
VFG000861(gb WP_001045649)		0	0	0
VFG048874(gb WP_041937789)		0	0	0
VFG048885(gb WP_014907227)		0	0	0.371045
VFG049148(gb WP_041168941)		0	0	0
VFG049120(gb WP_012737535)		0	0	0
VFG034866(gb WP_000900547)		0	0	0
VFG013346(gb WP_005693178)		0	0	0
VFG043206(gb WP_005164479)		0	0	0
VFG043212(gb WP_005168761)		0	0	0
VFG045794(gb WP_000992818)		0	0	0
VFG001855(gb WP_197535493)		0	3.763187	0

Gene	O6	O7	O8	O9
VFG000935(gb WP_001222189)	0	0	0	0
VFG000884(gb WP_000654937)	0	0	0	0
VFG050158(gb WP_000905916)	0	0	0	0
VFG000908(gb WP_000860472)	0	0	0	0
VFG000871	0	0	0	0
VFG002049(gb WP_001173470)	0	0	0	0
VFG050163(gb WP_000197083)	0	0	0	0
VFG000879(gb WP_000832235)	0	0	0	0
VFG002196	0	0	0	0
VFG049133(gb WP_004177236)	0	0	0	0
VFG049908(gb WP_001080148)	0	0	0	0
VFG002415(gb WP_001131063)	0	0	0	0
VFG000449(gb NP_459544)	0	0	0	0
VFG000916(gb WP_001017192)	0	0	0	0
VFG002358(gb WP_005164496)	0	0	0	0
VFG002051(gb WP_001115126)	0	0	0	0
VFG048980(gb WP_041937790)	0	0	0	0
VFG000361(gb WP_000982866)	0	0	0	0
VFG002270(gb WP_011180104)	0	0	0	0
VFG048518(gb WP_012737617)	0	0	0	0
VFG050169(gb WP_000124301)	0	0	0	0
VFG013069(gb WP_005019013)	0	0	0	0
VFG049124(gb WP_012737540)	0	0	0	0
VFG049915(gb WP_001142968)	0	0	0	0
VFG005990(gb WP_000659582)	0	0	0	0
VFG049903(gb WP_001240533)	0	0	0	0
VFG043209(gb WP_005168769)	0	0	0	0
VFG034754(gb WP_000081129)	0	0	0	0
VFG045473(gb AAM75250)	0	0	0	0
VFG045791(gb WP_000481500)	0	0	0	0

Gene	O6	O7	O8	O9
VFG049917		0	0	0
VFG005784(gb WP_001092618)		0	0	0
VFG006034(gb WP_000064997)		0	0	0
VFG047039(gb WP_003018140)		0	0	447.517427
VFG012333(gb WP_000703306)		0	0	0
VFG045792(gb WP_000791650)		0	0	0
VFG000886(gb WP_000261297)		0	0	0
VFG000917(gb WP_000089583)		0	0	0
VFG005299(gb WP_001233990)		0	0	0
VFG002341(gb WP_005168813)		0	0	0
VFG006024(gb WP_000565385)		0	0	194.961908
VFG000474(gb NP_460200)		0	0	0
VFG005894(gb WP_000262522)		0	0	0
VFG034721(gb WP_000556298)		0	0	0
VFG048985(gb WP_014907219)		0	0	0
VFG013412(gb WP_005693459)		0	0	0
VFG005291(gb WP_000723812)		0	0	0
VFG000367(gb WP_001286280)		0	0	0
VFG000878(gb WP_000872015)		0	0	0
VFG000872(gb WP_000044711)		0	0	0
VFG002413(gb WP_000389022)		0	0	0
VFG000919(gb WP_001095619)		0	0	0
VFG001445(gb AAA92657)		0	0	0
VFG034873(gb WP_001270084)		0	0	0
VFG049905(gb WP_000343289)		0	0	0
VFG002197(gb WP_002387027)		0	0	0
VFG048808(gb WP_004899416)		0	0	0
VFG005295(gb WP_000850672)		0	0	0
VFG013418(gb WP_005694260)		0	0	0
VFG000927(gb WP_000096764)		0	0	0
VFG005289(gb WP_001868236)		0	0	0

Gene	O6	O7	O8	O9
VFG005858(gb WP_000727597)	0	0	0	0
VFG042389(gb WP_000012013)	0	0	0	0
VFG049122(gb WP_012737539)	0	0	0	0
VFG044331(gb WP_015874966)	0	0	0	0
VFG010906(gb WP_011213314)	0	0	0	0
VFG000873	0	0	0	0
VFG002048(gb WP_000249362)	0	0	0	0
VFG048478(gb WP_004147521)	0	0	0	0
VFG005834(gb WP_000802346)	0	0	0	0
VFG005277(gb WP_000777402)	0	0	0	0
VFG002189(gb WP_002359680)	0	0	0	0
VFG018241(gb WP_001130227)	0	0	0	0
VFG005280(gb WP_000815035)	0	0	0	0
VFG038285(gb WP_005308483)	0	0	0	0
VFG001379(gb NP_214867)	0	0	0	0
VFG005930(gb WP_000591736)	0	0	0	0
VFG005230(gb WP_000715197)	0	0	0	0
VFG049909(gb WP_001113715)	0	0	0	0
VFG012339(gb WP_000237768)	0	0	0	0
VFG049153(gb WP_000159201)	0	0	0	0
VFG000332(gb WP_005632797)	0	0	0	0
VFG001443(gb AAF37887)	0	0	0	0
VFG005918(gb WP_000181212)	0	0	0	0
VFG001713(gb WP_001298062)	0	0	0	0
VFG002047	0	0	0	0
VFG050289(gb WP_010934515)	0	0	0	0
VFG038861(gb WP_005314296)	0	0	0	0
VFG049147(gb WP_001217110)	0	0	0	0
VFG002335(gb WP_005160396)	0	0	0	0
VFG000974(gb WP_010922711)	0	0	0	0
VFG000883(gb WP_001239363)	0	0	0	0

Gene	O6	O7	O8	O9
VFG002166(gb WP_010714416)		0	0	0
VFG002179(gb AAD09858)		0	0	3125.232591
VFG000926(gb WP_001443194)		0	0	0
VFG012501(gb WP_000271272)		0	0	0
BFI77837.1	1131.399087	799.905968	361.290724	1242.779169
XAZ16568.1	0	0	0	0
XBA31156.1	0	0	0	0
XBA28592.1	0	0	0	0
XBA57870.1	0	0	0	0
XBA30587.1	0	0	0	0
XBA30727.1	0	0	0	0
XAZ17659.1	0	0	0	0
XBA29869.1	0	0	0	0
pdb 2AVX A	0	0	0	0
XAZ17661.1	0	0	0	0
XBA27749.1	0	0	0	0
XBA27519.1	0	0	0	0
WP_305165386.1	0	0	125.532425	0
XBA55473.1	0	0	0	0
pdb 3EJW B	0	0	0	0
WP_116363378.1	0	0	0	0
pdb 7SIE A	0	0	0	0
XBA29828.1	0	0	0	0
XBA29568.1	0	0	0	0
GH_sum	28299.61507	17623.34383	34274.08255	23464.85733
CE_sum	1087.887285	678.320236	836.607824	2223.448249
CBM_sum	17762.83689	12977.87681	6439.896374	11121.93857
GT_sum	12471.29905	6984.208552	10394.95203	5828.178496
PL_sum	0	0	304.525428	0

Supplementary Table 7 Metadata of 141 *L. iners*

Gene	condition	Isolation source
O22A.7	BV	China
H12.4	No_BV	China
GCA_947254455.1	Unknown	USA
GCA_947252835.1	Unknown	USA
GCA_947086835.1	Unknown	China
GCA_947036365.1	Unknown	USA
GCA_946998945.1	Unknown	USA
GCA_946892165.1	Unknown	USA
GCA_946891125.1	Unknown	China
GCA_946221865.1	Unknown	USA
GCA_027584045.1	Unknown	USA
GCA_025349525.1	Unknown	South_Africa
GCA_025349485.1	No_BV	South_Africa
GCA_025349405.1	BV	South_Africa
GCA_025348885.1	BV	South_Africa
GCA_025348765.1	BV	South_Africa
GCA_025348745.1	Intermediate	South_Africa
GCA_025347945.1	No_BV	South_Africa
GCA_025347925.1	Unknown	South_Africa
GCA_025347805.1	Unknown	South_Africa
GCA_025347755.1	BV	South_Africa
GCA_025347745.1	No_BV	South_Africa
GCA_025347625.1	No_BV	South_Africa
GCA_025347585.1	No_BV	South_Africa
GCA_025347565.1	Intermediate	South_Africa
GCA_025347445.1	No_BV	South_Africa
GCA_025347345.1	Unknown	South_Africa
GCA_025346985.1	Unknown	South_Africa
GCA_025346825.1	Unknown	South_Africa
GCA_025346805.1	No_BV	South_Africa
GCA_025346145.1	Unknown	USA
GCA_025346125.1	Unknown	USA
GCA_025346025.1	Unknown	USA
GCA_025345995.1	Unknown	USA
GCA_025345985.1	Unknown	USA
GCA_025345925.1	Unknown	USA
GCA_025345815.1	No_BV	South_Africa
GCA_025345785.1	Intermediate	South_Africa
GCA_025345765.1	Unknown	South_Africa
GCA_025345685.1	BV	South_Africa
GCA_022757585.1	Unknown	USA
GCA_022757485.1	Unknown	USA
GCA_022757315.1	Unknown	USA

Supplementary Table 8 The distribution of virulence factor, antibiotic resistance, biofilm-related, and carbohydrate-active enzyme genes in *L.iners*

Gene	veg	walR	lnuC	tet(O/M/O)	APH(3')-IIIa	ErmA	AAC6	tet(M)	IsaC	mel	ErmB	VFG000077	VFG002190	VFG045308	VFG000080	GH_sum	CE_sum	CBM_sum	GT_sum
O22A. 7	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	14	2	6	11
H12. 4	1	0	1	0	0	0	0	1	1	0	1	1	0	0	0	13	0	5	10
GCA_947254455. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	5	12
GCA_947252835. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	15	1	6	11
GCA_947086835. 1	1	1	0	0	0	0	0	3	2	0	1	1	0	0	0	18	1	4	11
GCA_947036755. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	15	1	8	12
GCA_947036365. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	15	2	6	11
GCA_946998945. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	17	1	7	12
GCA_946892165. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	15	1	4	11
GCA_946891125. 1	1	1	1	0	0	0	1	4	3	0	2	1	0	0	0	17	1	6	11
GCA_946221865. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	15	1	4	8
GCA_937919235. 1	1	1	0	0	0	0	0	2	2	0	1	1	0	0	0	19	1	6	11
GCA_902374445. 1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	14	2	6	11
GCA_027584045. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	19	1	4	13
GCA_025349525. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	4	11
GCA_025349485. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	2	5	10
GCA_025349405. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	4	11
GCA_025348885. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	19	1	5	12
GCA_025348765. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	6	11
GCA_025348745. 1	1	1	0	0	0	0	0	2	2	1	0	1	0	0	0	16	0	6	11
GCA_025347945. 1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	16	2	3	11
GCA_025347925. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	4	11
GCA_025347805. 1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	16	2	7	11
GCA_025347755. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	17	2	7	9
GCA_025347745. 1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	14	1	4	11
GCA_025347625. 1	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	18	1	5	9
GCA_025347585. 1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	18	1	4	12
GCA_025347565. 1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	19	1	4	11
GCA_025347445. 1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	19	1	4	11
GCA_025347345. 1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	15	1	5	9

Gene	veg	walR	lnuC	tet(O/M/APH(3'))	I Spyo	AAC6	I tet(M)	lsa(mel)	ErmB	VFG000077	VFG002190	VFG045308	VFG000080	GH_sum	CE_sum	CBM_sum	GT_sum		
GCA_025346985.1	1	1	0	0	0	0	0	2	2	1	0	1	0	0	0	16	1	4	9
GCA_025346825.1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	16	2	4	10
GCA_025346805.1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	16	2	4	11
GCA_025346145.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	14	2	6	9
GCA_025346125.1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	16	2	4	11
GCA_025346025.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	14	2	4	11
GCA_025345995.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	6	12
GCA_025345985.1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	6	12
GCA_025345925.1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	16	2	4	11
GCA_025345815.1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	13	1	3	7
GCA_025345785.1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	18	0	5	10
GCA_025345765.1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	19	1	4	11
GCA_025345685.1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	18	0	4	11
GCA_022757585.1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	17	1	6	11
GCA_022757485.1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	14	2	4	9
GCA_022757315.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	4	11
GCA_022757285.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	4	11
GCA_022757265.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	4	10
GCA_022757145.1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	17	2	7	11
GCA_022756705.1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	6	12
GCA_022756655.1	1	1	0	0	0	1	0	1	0	0	0	1	0	0	0	13	2	4	11
GCA_022756225.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	15	1	3	11
GCA_022755765.1	1	1	0	0	0	0	0	1	2	0	0	1	0	0	0	16	0	4	9
GCA_022755565.1	1	1	0	0	0	0	0	2	0	0	0	1	0	0	0	15	2	4	11
GCA_022755525.1	1	1	0	0	0	1	0	3	1	0	0	1	0	0	0	18	1	8	12
GCA_022755495.1	1	1	0	0	0	0	0	3	2	0	1	1	0	0	0	16	2	4	10
GCA_022755385.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	5	11
GCA_022755365.1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	4	11
GCA_022755295.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	6	11
GCA_022755265.1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	16	1	4	10
GCA_022754465.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	18	1	4	11

Gene	veg	walR	lnuC	tet(O/M/APH(3'))	I	Spyo	AAC6	I	tet(M)	lsa(mel)	ErmB	VFG000077	VFG002190	VFG045308	VFG000080	GH_sum	CE_sum	CBM_sum	GT_sum	
GCA_022754385.1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	17	2	6	8
GCA_022754365.1	1	1	0	0	0	0	0	0	3	2	0	1	1	0	0	0	19	1	6	11
GCA_022754315.1	1	1	0	0	0	0	0	0	2	1	0	0	1	0	0	0	16	0	5	10
GCA_022754065.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	5	10
GCA_022753815.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	17	1	6	12
GCA_022753805.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	6	10
GCA_022753765.1	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	19	0	6	12
GCA_022753505.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	14	2	4	11
GCA_022753485.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	12	2	4	12
GCA_022752045.1	1	1	0	0	0	0	0	0	4	2	0	1	1	0	0	0	14	1	4	10
GCA_022751815.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	1	6	12
GCA_022751435.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	17	1	6	9
GCA_022751285.1	1	1	0	0	1	0	0	0	5	2	2	0	0	0	0	0	16	1	4	11
GCA_022456475.1	1	1	0	0	0	0	0	0	2	1	0	0	1	0	0	0	18	1	7	11
GCA_022456425.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	11
GCA_022456415.1	1	1	0	0	0	0	0	0	2	1	1	0	1	0	0	0	18	1	4	6
GCA_022456395.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	11
GCA_022456375.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	11
GCA_022456355.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	11
GCA_022456325.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	11
GCA_022456315.1	1	1	0	0	0	0	0	0	3	2	1	0	1	0	0	0	19	1	6	11
GCA_022456275.1	1	1	0	0	0	0	0	0	2	1	0	0	1	0	0	0	18	1	4	11
GCA_022456255.1	1	1	0	0	0	0	0	0	2	1	0	0	1	0	0	0	18	1	4	11
GCA_022456165.1	1	1	0	0	0	0	0	0	2	1	0	0	1	0	0	0	16	2	4	9
GCA_022456155.1	1	1	0	0	0	0	0	0	3	2	0	0	1	0	0	0	19	1	6	11
GCA_022456135.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	6	9
GCA_022456115.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	16	2	4	9
GCA_022456095.1	1	1	0	0	0	0	0	0	4	3	2	0	1	0	0	0	16	2	4	9
GCA_022456075.1	1	1	0	0	0	0	0	0	4	3	2	0	1	0	0	0	16	2	4	9
GCA_022456055.1	1	1	0	0	0	0	0	0	4	3	2	0	1	0	0	0	16	2	4	9

Gene	veg	walR	lnuC	tet(O/M/APH(3'))	-I	Spyo	AAC6_I	tet(M)	lsa(mel)	ErmB	VFG000077	VFG002190	VFG045308	VFG000080	GH_sum	CE_sum	CBM_sum	GT_sum		
GCA_022455815.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	18	1	4	9
GCA_022455795.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	9
GCA_022455765.1	1	1	0	0	0	0	0	0	2	2	1	0	1	0	0	0	19	1	4	9
GCA_019459565.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	14	1	6	11
GCA_019400365.1	1	1	0	0	0	0	0	0	2	1	0	1	1	0	0	0	18	1	4	10
GCA_019400335.1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	2	6	10
GCA_019400315.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	13	1	8	9
GCA_019400305.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	1	3	10
GCA_019400285.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	13	2	6	11
GCA_019400225.1	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	6	6
GCA_019400215.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	18	1	6	9
GCA_019400055.1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	17	2	7	11
GCA_019400045.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	4	11
GCA_011058795.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	6	11
GCA_011058775.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	6	11
GCA_011058755.1	1	1	0	0	0	0	0	0	3	2	0	1	1	0	0	0	19	1	8	12
GCA_011058735.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	18	1	9	12
GCA_011058715.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	20	1	7	11
GCA_011058695.1	1	1	0	0	0	0	0	0	2	2	0	1	1	0	0	0	16	2	9	13
GCA_010748955.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	10	11
GCA_009857205.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	17	1	6	11
GCA_009556455.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	6	11
GCA_002892385.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	15	2	6	11
GCA_002884705.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	6	11
GCA_002884695.1	1	1	0	0	0	0	0	0	3	2	0	1	1	0	0	0	16	1	8	11
GCA_002871595.1	1	1	0	0	0	0	0	0	3	2	0	1	1	0	0	0	18	1	8	12
GCA_001435015.1	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	8	11
GCA_000227195.1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	14	2	6	11
GCA_000204435.2	1	1	0	0	0	0	0	0	1	1	0	0	1	0	0	0	18	1	4	11
GCA_000191705.2	1	1	0	0	0	0	0	0	1	2	0	0	1	0	0	0	17	1	6	12

Gene	veg	walR	lnuC	tet (O/M/APH(3')-I	Spyo	AAC6	I	tet (M)	lsa(mel	ErmB	VFG000077	VFG002190	VFG045308	VFG000080	GH_sum	CE_sum	CBM_sum	GT_sum	
GCA_000191685.2	1	1	0	0	0	0	0	3	2	0	0	1	0	0	0	16	2	4	11
GCA_000185405.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	14	1	6	11
GCA_000179995.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	1	4	11
GCA_000179975.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	17	1	4	11
GCA_000179955.1	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	16	2	4	11
GCA_000179935.1	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	16	1	8	12
GCA_000177755.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	6	11
GCA_000160875.1	1	1	0	0	0	0	0	0	1	0	0	1	0	0	0	16	1	6	11
GCA_000149145.2	1	1	0	0	0	0	0	3	2	0	0	1	0	0	0	18	2	6	12
GCA_000149125.2	1	1	0	1	0	0	0	5	4	0	2	1	0	0	0	23	2	16	14
GCA_000149105.2	1	1	0	0	0	0	0	2	0	0	0	1	1	0	0	19	1	12	11
GCA_000149085.2	1	1	0	0	0	0	0	2	2	0	0	1	0	0	0	20	1	4	11
GCA_000149065.2	1	1	0	0	0	0	0	4	3	0	1	1	0	0	0	17	2	8	14
Zm261	1	1	0	0	0	0	0	2	1	0	0	1	0	0	0	19	1	6	11
Zm241	1	1	1	0	0	0	0	3	3	0	2	1	0	0	0	18	1	6	11
Zm236	1	1	1	0	0	0	0	3	3	0	2	1	0	0	0	18	1	6	11
Zm234	1	1	1	0	0	0	0	3	3	0	2	1	0	0	0	18	1	6	11
Zm143	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	9	11
Zm142	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	9	11
Zm141	1	1	0	0	0	0	0	1	1	0	0	1	0	0	0	17	2	9	11

Gene	condition	Isolation source
GCA_022757285.1	Unknown	USA
GCA_022757265.1	Unknown	USA
GCA_022757145.1	Unknown	USA
GCA_022756705.1	Unknown	USA
GCA_022756655.1	Unknown	USA
GCA_022756225.1	Unknown	USA
GCA_022755765.1	Unknown	USA
GCA_022755565.1	Unknown	China
GCA_022755525.1	Unknown	China
GCA_022755495.1	Unknown	China
GCA_022755385.1	Unknown	USA
GCA_022755365.1	Unknown	USA
GCA_022755295.1	Unknown	USA
GCA_022755265.1	Unknown	USA
GCA_022754465.1	Unknown	USA
GCA_022754385.1	Unknown	USA
GCA_022754365.1	Unknown	USA
GCA_022754315.1	Unknown	USA
GCA_022754065.1	Unknown	USA
GCA_022753815.1	Unknown	USA
GCA_022753805.1	Unknown	USA
GCA_022753765.1	Unknown	USA
GCA_022753505.1	Unknown	USA
GCA_022753485.1	Unknown	USA
GCA_022752045.1	Unknown	USA
GCA_022751815.1	Unknown	USA
GCA_022456475.1	No_BV	South_Africa
GCA_022456425.1	Intermediate	South_Africa
GCA_022456415.1	Intermediate	South_Africa
GCA_022456395.1	Intermediate	South_Africa
GCA_022456375.1	Intermediate	South_Africa
GCA_022456355.1	Intermediate	South_Africa
GCA_022456325.1	Intermediate	South_Africa
GCA_022456315.1	Unknown	South_Africa
GCA_022456275.1	Unknown	South_Africa
GCA_022456255.1	Unknown	South_Africa
GCA_022456165.1	Unknown	South_Africa
GCA_022456155.1	BV	South_Africa
GCA_022456135.1	Unknown	South_Africa
GCA_022456115.1	Unknown	South_Africa
GCA_022456095.1	No_BV	South_Africa
GCA_022456075.1	No_BV	South_Africa
GCA_022456055.1	Intermediate	South_Africa
GCA_022455815.1	Intermediate	South_Africa

Gene	condition	Isolation source
GCA_022455795.1	Intermediate	South_Africa
GCA_022455765.1	Intermediate	South_Africa
GCA_019459565.1	Unknown	China
GCA_019400365.1	Unknown	China
GCA_019400335.1	Unknown	China
GCA_019400315.1	Unknown	China
GCA_019400305.1	Unknown	China
GCA_019400285.1	Unknown	China
GCA_019400225.1	Unknown	China
GCA_019400215.1	Unknown	China
GCA_019400055.1	Unknown	China
GCA_019400045.1	Unknown	China
GCA_011058795.1	Unknown	USA
GCA_011058775.1	Unknown	USA
GCA_011058755.1	Unknown	USA
GCA_011058735.1	Unknown	USA
GCA_011058715.1	Unknown	USA
GCA_011058695.1	Unknown	USA
GCA_002892385.1	Unknown	USA
GCA_002884705.1	Unknown	USA
GCA_002884695.1	Unknown	USA
GCA_002871595.1	Unknown	USA
GCA_000227195.1	Unknown	USA
GCA_000204435.2	No_BV	USA
GCA_000191705.2	Unknown	USA
GCA_000191685.2	Unknown	USA
GCA_000185405.1	BV	USA
GCA_000179995.1	BV	USA
GCA_000179975.1	BV	USA
GCA_000179955.1	Unknown	USA
GCA_000179935.1	BV	USA
GCA_000177755.1	Unknown	USA
GCA_000149145.2	BV	USA
GCA_000149125.2	Unknown	USA
GCA_000149105.2	No_BV	USA
GCA_000149085.2	No_BV	USA
GCA_000149065.2	Unknown	USA
261	Unknown	China
241	Unknown	China
236	Unknown	China
234	Unknown	China
143	Unknown	China
142	Unknown	China
141	Unknown	China

Supplementary Table 9 The number of SNVs in 7 *L. iners* isolations

gene	<i>L. iners</i> 141	gene	<i>L. iners</i> 142	gene	<i>L. iners</i> 234
GL622333.1_2	1	GL622333.1_38	1	GL622333.1_28	1
GL622333.1_114	2	GL622333.1_64	3	GL622333.1_51	5
GL622333.1_115	2	GL622333.1_92	1	GL622333.1_100	3
GL622333.1_126	5	GL622333.1_115	2	GL622333.1_126	14
GL622333.1_163	10	GL622333.1_126	7	GL622333.1_141	1
GL622333.1_165	3	GL622333.1_163	8	GL622333.1_158	1
GL622333.1_172	1	GL622333.1_165	6	GL622333.1_175	2
GL622333.1_175	5	GL622333.1_175	3	GL622333.1_198	10
GL622333.1_179	10	GL622333.1_179	12	GL622333.1_202	2
GL622333.1_198	8	GL622333.1_197	1	GL622333.1_203	3
GL622333.1_228	1	GL622333.1_198	11	GL622333.1_217	1
GL622333.1_229	1	GL622333.1_203	1	GL622333.1_229	1
GL622333.1_252	23	GL622333.1_209	1	GL622333.1_249	1
GL622333.1_287	2	GL622333.1_228	1	GL622333.1_287	2
GL622333.1_288	2	GL622333.1_229	1	GL622333.1_288	1
GL622333.1_298	93	GL622333.1_252	23	GL622333.1_290	1
GL622333.1_308	4	GL622333.1_259	1	GL622333.1_297	1
GL622333.1_313	1	GL622333.1_260	1	GL622333.1_298	39
GL622333.1_320	1	GL622333.1_262	1	GL622333.1_308	4
GL622333.1_321	1	GL622333.1_287	3	GL622333.1_321	1
GL622333.1_356	12	GL622333.1_288	3	GL622333.1_325	1
GL622333.1_376	1	GL622333.1_298	99	GL622333.1_337	1
GL622333.1_380	3	GL622333.1_302	1	GL622333.1_352	1
GL622333.1_391	1	GL622333.1_308	5	GL622333.1_356	11
GL622333.1_392	1	GL622333.1_313	2	GL622333.1_380	1
GL622333.1_403	1	GL622333.1_317	1	GL622333.1_391	1
GL622333.1_438	4	GL622333.1_318	1	GL622333.1_392	1
GL622333.1_445	1	GL622333.1_321	2	GL622333.1_398	1
GL622333.1_467	2	GL622333.1_348	1	GL622333.1_404	1
GL622333.1_469	2	GL622333.1_356	16	GL622333.1_406	1
GL622333.1_473	8	GL622333.1_380	3	GL622333.1_410	6
GL622333.1_475	4	GL622333.1_391	1	GL622333.1_411	12
GL622333.1_476	1	GL622333.1_392	1	GL622333.1_415	1
GL622333.1_485	1	GL622333.1_398	1	GL622333.1_438	6
GL622333.1_508	4	GL622333.1_415	1	GL622333.1_443	1
GL622333.1_528	1	GL622333.1_418	1	GL622333.1_445	1
GL622333.1_546	1	GL622333.1_428	1	GL622333.1_467	1
GL622333.1_565	5	GL622333.1_438	5	GL622333.1_469	2
GL622333.1_566	4	GL622333.1_445	1	GL622333.1_473	3
GL622333.1_584	4	GL622333.1_453	1	GL622333.1_508	12
GL622333.1_610	1	GL622333.1_458	1	GL622333.1_512	5
GL622333.1_616	1	GL622333.1_467	2	GL622333.1_513	2
GL622333.1_619	1	GL622333.1_469	2	GL622333.1_526	4
GL622333.1_636	18	GL622333.1_473	8	GL622333.1_527	15
GL622333.1_637	3	GL622333.1_475	4	GL622333.1_551	2
GL622333.1_691	1	GL622333.1_508	6	GL622333.1_565	7
GL622333.1_695	5	GL622333.1_565	6	GL622333.1_566	5
GL622333.1_698	7	GL622333.1_566	4	GL622333.1_576	2

gene	<i>L. iners</i> 141	gene	<i>L. iners</i> 142	gene	<i>L. iners</i> 143
GL622333.1_709	2	GL622333.1_569	1	GL622333.1_612	
GL622333.1_724	4	GL622333.1_584	4	GL622333.1_616	1
GL622333.1_730	8	GL622333.1_600	1	GL622333.1_619	1
GL622333.1_731	6	GL622333.1_612	1	GL622333.1_625	2
GL622333.1_732	6	GL622333.1_619	1	GL622333.1_629	2
GL622333.1_734	159	GL622333.1_623	1	GL622333.1_642	1
GL622333.1_739	85	GL622333.1_636	20	GL622333.1_695	1
GL622333.1_744	9	GL622333.1_637	1	GL622333.1_698	5
GL622333.1_757	1	GL622333.1_695	4	GL622333.1_724	6
GL622333.1_761	7	GL622333.1_698	4	GL622333.1_730	4
GL622333.1_766	5	GL622333.1_724	3	GL622333.1_731	9
GL622333.1_772	4	GL622333.1_730	7	GL622333.1_733	9
GL622333.1_775	1	GL622333.1_731	7	GL622333.1_734	4
GL622333.1_778	3	GL622333.1_732	5	GL622333.1_739	39
GL622333.1_795	1	GL622333.1_733	3	GL622333.1_748	10
GL622333.1_812	1	GL622333.1_734	162	GL622333.1_754	5
GL622333.1_866	3	GL622333.1_735	1	GL622333.1_757	1
GL622333.1_879	7	GL622333.1_739	77	GL622333.1_761	1
GL622333.1_896	1	GL622333.1_744	8	GL622333.1_766	2
GL622333.1_910	2	GL622333.1_754	1	GL622333.1_772	7
GL622333.1_943	1	GL622333.1_757	1	GL622333.1_778	11
GL622333.1_945	47	GL622333.1_761	9	GL622333.1_783	3
GL622333.1_995	3	GL622333.1_766	5	GL622333.1_802	5
GL622333.1_1003	1	GL622333.1_772	4	GL622333.1_822	1
GL622333.1_1027	1	GL622333.1_775	2	GL622333.1_828	1
GL622333.1_1032	1	GL622333.1_778	4	GL622333.1_866	3
GL622333.1_1033	1	GL622333.1_806	1	GL622333.1_871	9
GL622333.1_1070	1	GL622333.1_812	2	GL622333.1_872	14
GL622333.1_1105	1	GL622333.1_828	1	GL622333.1_878	2
GL622333.1_1131	1	GL622333.1_840	1	GL622333.1_934	7
GL622335.1_1	1	GL622333.1_846	1	GL622333.1_945	1
GL622337.1_1	1	GL622333.1_866	3	GL622333.1_995	5
GL622338.1_1	3	GL622333.1_879	7	GL622333.1_1020	2
GL622339.1_1	19	GL622333.1_898	1	GL622333.1_1028	1
		GL622333.1_910	3	GL622333.1_1070	1
		GL622333.1_945	43	GL622333.1_1095	1
		GL622333.1_995	3	GL622333.1_1096	4
		GL622333.1_1023	2	GL622339.1_1	23
		GL622333.1_1031	1		15
		GL622333.1_1043	1		
		GL622333.1_1070	1		
		GL622333.1_1105	1		
		GL622333.1_1132	2		
		GL622335.1_1	1		
		GL622337.1_1	1		
		GL622338.1_1	1		
		GL622339.1_1	17		

gene	<i>L. iners</i> 236	gene	<i>L. iners</i> 241	gene	<i>L. iners</i> 261
GL622333.1_23	1	GL622333.1_4	1	GL622333.1_2	1
GL622333.1_27	1	GL622333.1_60	1	GL622333.1_24	1
GL622333.1_30	1	GL622333.1_114	1	GL622333.1_60	1
GL622333.1_36	2	GL622333.1_115	1	GL622333.1_91	8
GL622333.1_38	2	GL622333.1_126	5	GL622333.1_92	1
GL622333.1_41	2	GL622333.1_153	1	GL622333.1_100	2
GL622333.1_43	3	GL622333.1_163	9	GL622333.1_126	1
GL622333.1_44	2	GL622333.1_165	5	GL622333.1_141	1
GL622333.1_57	1	GL622333.1_175	4	GL622333.1_158	2
GL622333.1_59	2	GL622333.1_178	1	GL622333.1_163	3
GL622333.1_60	2	GL622333.1_179	11	GL622333.1_175	1
GL622333.1_64	2	GL622333.1_198	11	GL622333.1_179	10
GL622333.1_66	1	GL622333.1_200	1	GL622333.1_198	10
GL622333.1_67	1	GL622333.1_209	1	GL622333.1_202	3
GL622333.1_72	1	GL622333.1_228	1	GL622333.1_228	1
GL622333.1_79	1	GL622333.1_229	1	GL622333.1_262	1
GL622333.1_126	10	GL622333.1_252	23	GL622333.1_287	1
GL622333.1_136	1	GL622333.1_259	1	GL622333.1_288	1
GL622333.1_139	2	GL622333.1_287	3	GL622333.1_290	4
GL622333.1_141	4	GL622333.1_288	3	GL622333.1_293	5
GL622333.1_143	1	GL622333.1_298	99	GL622333.1_298	46
GL622333.1_145	1	GL622333.1_308	4	GL622333.1_308	6
GL622333.1_148	1	GL622333.1_313	1	GL622333.1_313	2
GL622333.1_167	1	GL622333.1_314	1	GL622333.1_330	1
GL622333.1_174	1	GL622333.1_319	1	GL622333.1_356	12
GL622333.1_176	1	GL622333.1_320	1	GL622333.1_380	2
GL622333.1_178	1	GL622333.1_356	16	GL622333.1_381	2
GL622333.1_189	1	GL622333.1_377	1	GL622333.1_391	1
GL622333.1_196	1	GL622333.1_380	1	GL622333.1_392	1
GL622333.1_198	6	GL622333.1_391	1	GL622333.1_393	10
GL622333.1_202	1	GL622333.1_392	1	GL622333.1_398	1
GL622333.1_205	1	GL622333.1_398	1	GL622333.1_406	2
GL622333.1_212	1	GL622333.1_418	1	GL622333.1_410	6
GL622333.1_219	2	GL622333.1_426	1	GL622333.1_411	11
GL622333.1_223	1	GL622333.1_434	1	GL622333.1_430	1
GL622333.1_226	1	GL622333.1_438	5	GL622333.1_438	7
GL622333.1_242	1	GL622333.1_445	1	GL622333.1_445	1
GL622333.1_244	1	GL622333.1_458	1	GL622333.1_467	13
GL622333.1_252	1	GL622333.1_467	2	GL622333.1_469	2
GL622333.1_254	1	GL622333.1_469	2	GL622333.1_473	6
GL622333.1_262	1	GL622333.1_473	7	GL622333.1_475	3
GL622333.1_269	1	GL622333.1_475	3	GL622333.1_484	1
GL622333.1_272	1	GL622333.1_476	1	GL622333.1_496	1
GL622333.1_276	1	GL622333.1_481	1	GL622333.1_508	10
GL622333.1_283	1	GL622333.1_496	1	GL622333.1_525	3
GL622333.1_284	1	GL622333.1_508	5	GL622333.1_526	2
GL622333.1_286	1	GL622333.1_516	1	GL622333.1_527	2
GL622333.1_293	1	GL622333.1_565	5	GL622333.1_528	1

gene	<i>L. iners</i> 236	gene	<i>L. iners</i> 241	gene	<i>L. iners</i> 261
GL622333.1_298	14	GL622333.1_566	5	GL622333.1_536	2
GL622333.1_307	1	GL622333.1_584	4	GL622333.1_564	1
GL622333.1_308	1	GL622333.1_612	1	GL622333.1_565	8
GL622333.1_316	1	GL622333.1_616	1	GL622333.1_566	4
GL622333.1_318	2	GL622333.1_619	2	GL622333.1_603	3
GL622333.1_321	1	GL622333.1_636	18	GL622333.1_612	1
GL622333.1_327	1	GL622333.1_637	1	GL622333.1_613	1
GL622333.1_330	3	GL622333.1_687	1	GL622333.1_619	1
GL622333.1_333	1	GL622333.1_695	4	GL622333.1_620	1
GL622333.1_336	1	GL622333.1_698	7	GL622333.1_625	6
GL622333.1_352	1	GL622333.1_724	3	GL622333.1_629	1
GL622333.1_354	2	GL622333.1_730	7	GL622333.1_636	16
GL622333.1_355	2	GL622333.1_731	7	GL622333.1_637	2
GL622333.1_356	10	GL622333.1_732	2	GL622333.1_681	1
GL622333.1_372	1	GL622333.1_733	5	GL622333.1_704	1
GL622333.1_380	4	GL622333.1_734	162	GL622333.1_724	5
GL622333.1_381	1	GL622333.1_735	2	GL622333.1_731	15
GL622333.1_386	1	GL622333.1_739	85	GL622333.1_733	3
GL622333.1_390	1	GL622333.1_744	7	GL622333.1_734	142
GL622333.1_398	2	GL622333.1_754	1	GL622333.1_739	67
GL622333.1_401	6	GL622333.1_757	1	GL622333.1_746	1
GL622333.1_404	3	GL622333.1_761	9	GL622333.1_750	4
GL622333.1_408	1	GL622333.1_766	5	GL622333.1_751	11
GL622333.1_410	7	GL622333.1_772	3	GL622333.1_754	2
GL622333.1_411	8	GL622333.1_775	2	GL622333.1_757	1
GL622333.1_415	1	GL622333.1_778	1	GL622333.1_760	1
GL622333.1_417	1	GL622333.1_781	1	GL622333.1_761	10
GL622333.1_424	1	GL622333.1_795	1	GL622333.1_762	1
GL622333.1_426	2	GL622333.1_812	1	GL622333.1_766	1
GL622333.1_428	1	GL622333.1_828	1	GL622333.1_768	1
GL622333.1_431	1	GL622333.1_846	1	GL622333.1_772	11
GL622333.1_438	2	GL622333.1_866	3	GL622333.1_828	1
GL622333.1_439	1	GL622333.1_879	7	GL622333.1_848	12
GL622333.1_450	2	GL622333.1_898	1	GL622333.1_866	7
GL622333.1_452	1	GL622333.1_901	1	GL622333.1_872	19
GL622333.1_453	4	GL622333.1_930	1	GL622333.1_880	1
GL622333.1_455	1	GL622333.1_945	44	GL622333.1_885	1
GL622333.1_458	1	GL622333.1_995	2	GL622333.1_886	2
GL622333.1_461	1	GL622333.1_1070	1	GL622333.1_902	1
GL622333.1_465	1	GL622333.1_1108	1	GL622333.1_909	1
GL622333.1_469	1	GL622333.1_1	1	GL622333.1_910	3
GL622333.1_471	1	GL622337.1_1	1	GL622333.1_945	1
GL622333.1_473	4	GL622338.1_1	2	GL622333.1_948	1
GL622333.1_475	1	GL622339.1_1	20	GL622333.1_954	1
GL622333.1_478	1			GL622333.1_982	1
GL622333.1_483	1			GL622333.1_995	2
GL622333.1_484	1			GL622333.1_1063	2
GL622333.1_488	1			GL622333.1_1070	1

gene	<i>L. iners</i> 236	gene	<i>L. iners</i> 241	gene	<i>L. iners</i> 261
GL622333.1_491	1			GL622333.1_1105	1
GL622333.1_492	2			GL622335.1_1	2
GL622333.1_496	6			GL622339.1_1	17
GL622333.1_497	1				
GL622333.1_499	1				
GL622333.1_502	2				
GL622333.1_504	1				
GL622333.1_506	1				
GL622333.1_508	3				
GL622333.1_510	1				
GL622333.1_512	1				
GL622333.1_513	3				
GL622333.1_516	2				
GL622333.1_517	1				
GL622333.1_518	2				
GL622333.1_519	1				
GL622333.1_526	6				
GL622333.1_527	14				
GL622333.1_528	1				
GL622333.1_530	2				
GL622333.1_534	1				
GL622333.1_537	1				
GL622333.1_539	1				
GL622333.1_545	1				
GL622333.1_549	1				
GL622333.1_552	1				
GL622333.1_560	1				
GL622333.1_565	1				
GL622333.1_566	1				
GL622333.1_568	1				
GL622333.1_569	1				
GL622333.1_574	1				
GL622333.1_578	2				
GL622333.1_587	1				
GL622333.1_593	2				
GL622333.1_599	1				
GL622333.1_600	1				
GL622333.1_603	2				
GL622333.1_612	1				
GL622333.1_616	1				
GL622333.1_618	2				
GL622333.1_619	2				
GL622333.1_620	1				
GL622333.1_625	2				
GL622333.1_626	1				
GL622333.1_628	1				
GL622333.1_629	1				
GL622333.1_635	1				
GL622333.1_637	1				

gene	<i>L. iners</i> 236	gene	<i>L. iners</i> 241	gene	<i>L. iners</i> 261
GL622333.1_639	2				
GL622333.1_642	1				
GL622333.1_645	1				
GL622333.1_647	1				
GL622333.1_656	1				
GL622333.1_657	1				
GL622333.1_660	1				
GL622333.1_669	1				
GL622333.1_676	1				
GL622333.1_689	1				
GL622333.1_690	1				
GL622333.1_691	1				
GL622333.1_694	1				
GL622333.1_695	4				
GL622333.1_703	1				
GL622333.1_704	1				
GL622333.1_710	1				
GL622333.1_712	1				
GL622333.1_716	3				
GL622333.1_725	1				
GL622333.1_729	1				
GL622333.1_730	3				
GL622333.1_734	26				
GL622333.1_739	4				
GL622333.1_744	1				
GL622333.1_756	1				
GL622333.1_761	5				
GL622333.1_762	1				
GL622333.1_766	7				
GL622333.1_772	5				
GL622333.1_778	3				
GL622333.1_783	1				
GL622333.1_790	2				
GL622333.1_796	2				
GL622333.1_799	1				
GL622333.1_800	1				
GL622333.1_805	1				
GL622333.1_808	1				
GL622333.1_811	1				
GL622333.1_812	1				
GL622333.1_814	1				
GL622333.1_815	1				
GL622333.1_818	2				
GL622333.1_822	1				
GL622333.1_826	1				
GL622333.1_829	1				
GL622333.1_841	1				
GL622333.1_842	1				
GL622333.1_846	1				

gene	<i>L. iners</i> 236	gene	<i>L. iners</i> 241	gene	<i>L. iners</i> 261
GL622333.1_850	1				
GL622333.1_851	1				
GL622333.1_853	1				
GL622333.1_858	1				
GL622333.1_866	10				
GL622333.1_871	8				
GL622333.1_878	4				
GL622333.1_888	1				
GL622333.1_890	1				
GL622333.1_893	1				
GL622333.1_894	1				
GL622333.1_905	1				
GL622333.1_913	2				
GL622333.1_918	1				
GL622333.1_920	1				
GL622333.1_928	1				
GL622333.1_930	1				
GL622333.1_932	1				
GL622333.1_945	2				
GL622333.1_950	1				
GL622333.1_982	1				
GL622333.1_989	1				
GL622333.1_995	3				
GL622333.1_1000	1				
GL622333.1_1003	1				
GL622333.1_1008	1				
GL622333.1_1023	2				
GL622333.1_1033	1				
GL622333.1_1038	1				
GL622333.1_1045	2				
GL622333.1_1048	2				
GL622333.1_1050	1				
GL622333.1_1063	3				
GL622333.1_1069	1				
GL622333.1_1073	1				
GL622333.1_1077	2				
GL622333.1_1085	1				
GL622333.1_1087	1				
GL622333.1_1091	1				
GL622333.1_1093	1				
GL622333.1_1096	15				
GL622333.1_1099	1				
GL622333.1_1102	1				
GL622333.1_1107	1				
GL622333.1_1108	1				
GL622333.1_1121	1				
GL622333.1_1131	1				
GL622333.1_1132	2				
GL622333.1_1134	1				
GL622339.1_1	14				

Supplementary Table 10 The Nucleotide diversity of 7 *L. iners* isolations compared with 134 genome database

condition	type	Isolation source	group	Genome	<i>L. iners</i> Zm141	<i>L. iners</i> Zm142
Unknown	refSeq	India	Vagina	GCA_009857205.1_ASM985720v1_genomic	0.00053221	0.000684619
BV	MAG	China	Vagina	O22A.7	0.000413	0.000554026
BV	refSeq	South_Africa	Vagina	GCA_022456155.1_ASM2245615v1_genomic	0.000428555	0.000503852
BV	MAG	South_Africa	Vagina	GCA_025345685.1_ASM2534568v1_genomic	0.000508899	0.000584033
BV	MAG	South_Africa	Vagina	GCA_025347755.1_ASM2534775v1_genomic	0.000521085	0.000605206
BV	MAG	South_Africa	Vagina	GCA_025348765.1_ASM2534876v1_genomic	0.000417179	0.000543626
BV	MAG	South_Africa	Vagina	GCA_025348885.1_ASM2534888v1_genomic	0.000499842	0.000558306
BV	MAG	South_Africa	Vagina	GCA_025349405.1_ASM2534940v1_genomic	0.000454181	0.000581817
BV	refSeq	USA	Vagina	GCA_000149145.2_ASM14914v1_genomic	0.00042362	0.000533797
BV	refSeq	USA	Vagina	GCA_000179935.1_ASM17993v1_genomic	0.00044819	0.000498324
BV	refSeq	USA	Vagina	GCA_000179975.1_ASM17997v1_genomic	0.000385226	0.000521972
BV	refSeq	USA	Vagina	GCA_000179995.1_ASM17999v1_genomic	0.000418114	0.000535353
BV	refSeq	USA	Vagina	GCA_000185405.1_ASM18540v1_genomic	0.000393345	0.000509155
Intermediate	refSeq	South_Africa	Vagina	GCA_022455765.1_ASM2245576v1_genomic	0.000487532	0.000525048
Intermediate	refSeq	South_Africa	Vagina	GCA_022455795.1_ASM2245579v1_genomic	0.000387108	0.000530809
Intermediate	Isolate	South_Africa	Vagina	GCA_022455815.1_ASM2245581v1_genomic	0.000452751	0.000573878
Intermediate	refSeq	South_Africa	Vagina	GCA_022456055.1_ASM2245605v1_genomic	0.000443769	0.000536406
Intermediate	refSeq	South_Africa	Vagina	GCA_022456325.1_ASM2245632v1_genomic	0.000412779	0.000489648
Intermediate	refSeq	South_Africa	Vagina	GCA_022456355.1_ASM2245635v1_genomic	0.000405054	0.000537199
Intermediate	refSeq	South_Africa	Vagina	GCA_022456375.1_ASM2245637v1_genomic	0.000437144	0.00053123
Intermediate	refSeq	South_Africa	Vagina	GCA_022456395.1_ASM2245639v1_genomic	0.000413446	0.000488871
Intermediate	refSeq	South_Africa	Vagina	GCA_022456415.1_ASM2245641v1_genomic	0.000456923	0.000557618
Intermediate	refSeq	South_Africa	Vagina	GCA_022456425.1_ASM2245642v1_genomic	0.000475456	0.000505386
Intermediate	MAG	South_Africa	Vagina	GCA_025345785.1_ASM2534578v1_genomic	0.000391496	0.000558767
Intermediate	MAG	South_Africa	Vagina	GCA_025347565.1_ASM2534756v1_genomic	0.000392973	0.00054142
Intermediate	MAG	South_Africa	Vagina	GCA_025348745.1_ASM2534874v1_genomic	0.000438477	0.000571591
No_BV	MAG	China	Vagina	H12.4	0.000404195	0.000533739
No_BV	refSeq	South_Africa	Vagina	GCA_022456075.1_ASM2245607v1_genomic	0.000449552	0.000553851
No_BV	refSeq	South_Africa	Vagina	GCA_022456095.1_ASM2245609v1_genomic	0.000460827	0.000532785
No_BV	refSeq	South_Africa	Vagina	GCA_022456475.1_ASM2245647v1_genomic	0.000445035	0.000496139
No_BV	MAG	South_Africa	Vagina	GCA_025345815.1_ASM2534581v1_genomic	0.000482074	0.000520746
No_BV	MAG	South_Africa	Vagina	GCA_025346805.1_ASM2534680v1_genomic	0.000396214	0.000523858
No_BV	MAG	South_Africa	Vagina	GCA_025347445.1_ASM2534744v1_genomic	0.000425119	0.000475516
No_BV	MAG	South_Africa	Vagina	GCA_025347585.1_ASM2534758v1_genomic	0.000479314	0.000582841
No_BV	MAG	South_Africa	Vagina	GCA_025347625.1_ASM2534762v1_genomic	0.000438297	0.000552823
No_BV	MAG	South_Africa	Vagina	GCA_025347745.1_ASM2534774v1_genomic	0.000500975	0.000618409
No_BV	MAG	South_Africa	Vagina	GCA_025347945.1_ASM2534794v1_genomic	0.000486485	0.000578425
No_BV	MAG	South_Africa	Vagina	GCA_025349485.1_ASM2534948v1_genomic	0.000448401	0.000539599
No_BV	refSeq	USA	Vagina	GCA_000149085.2_ASM14908v1_genomic	0.000426624	0.000494688
No_BV	refSeq	USA	Vagina	GCA_000149105.2_ASM14910v1_genomic	0.000401246	0.000557095
No_BV	refSeq	USA	Vagina	GCA_000204435.2_ASM20443v1_genomic	0.000409855	0.000500506
Unknown	Isolate	China	Vagina	GCA_019400045.1_ASM1940004v1_genomic	0.000476229	0.00057445
Unknown	Isolate	China	Vagina	GCA_019400055.1_ASM1940005v1_genomic	0.000483271	0.000646266
Unknown	Isolate	China	Vagina	GCA_019400215.1_ASM1940021v1_genomic	0.000423218	0.000543376
Unknown	Isolate	China	Vagina	GCA_019400225.1_ASM1940022v1_genomic	0.000474913	0.000581773
Unknown	Isolate	China	Vagina	GCA_019400285.1_ASM1940028v1_genomic	0.000421903	0.000553032
Unknown	Isolate	China	Vagina	GCA_019400305.1_ASM1940030v1_genomic	0.000419968	0.000541136
Unknown	refSeq	China	Vagina	GCA_019400315.1_ASM1940031v1_genomic	0.000462279	0.000612443

condition	type	Isolation source	group	Genome	<i>L. iners</i> Zm141	<i>L. iners</i> Zm142
Unknown	refSeq	China	Vagina	GCA_019400335.1_ASM1940033v1_genomic	0.000433678	0.000600882
Unknown	refSeq	China	Vagina	GCA_019400365.1_ASM1940036v1_genomic	0.000458203	0.000603605
Unknown	refSeq	China	Vagina	GCA_019459565.1_ASM1945956v1_genomic	0.000460757	0.000546198
Unknown	MAG	China	Vagina	GCA_022755495.1_ASM2275549v1_genomic	0.000433887	0.000561541
Unknown	MAG	China	Vagina	GCA_022755525.1_ASM2275552v1_genomic	0.000489602	0.000606221
Unknown	MAG	China	Vagina	GCA_022755565.1_ASM2275556v1_genomic	0.000416224	0.00053477
Unknown	MAG	China	Vagina	GCA_946891125.1_ERR9538700_bin.1_metaWRAP_v1.	0.000433795	0.000581603
Unknown	MAG	China	Vagina	GCA_947086835.1_SRR10258561_bin.1_metaWRAP_v1	0.000508696	0.000578311
Unknown	MAG	Denmark	Vagina	GCA_947036755.1_ERR4705195_bin.8_metaWRAP_v1.	0.000493667	0.000587264
Unknown	MAG	Italy	Vagina	GCA_022751285.1_ASM2275128v1_genomic	0.000455233	0.000523431
Unknown	MAG	Italy	Vagina	GCA_022751435.1_ASM2275143v1_genomic	0.00046561	0.000581375
Unknown	refSeq	Korea	urine	GCA_009556455.1_ASM955645v1_genomic	0.000620458	0.00075419
Unknown	refSeq	Korea	Vagina	GCA_010748955.1_ASM1074895v1_genomic	0.000597154	0.000659861
Unknown	isolate	not provided	gut	GCA_902374445.1_MGYG-HGUT-01383_genomic	0.000443994	0.000500554
Unknown	MAG	not provided	Vagina	GCA_937919235.1_SRR2241415_bin.4_CONCOCT_v1.	0.000490956	0.000639414
Unknown	refSeq	South_Africa	Vagina	GCA_022456115.1_ASM2245611v1_genomic	0.000428665	0.000565984
Unknown	refSeq	South_Africa	Vagina	GCA_022456135.1_ASM2245613v1_genomic	0.000369399	0.00049813
Unknown	refSeq	South_Africa	Vagina	GCA_022456165.1_ASM2245616v1_genomic	0.00047817	0.000556308
Unknown	refSeq	South_Africa	Vagina	GCA_022456255.1_ASM2245625v1_genomic	0.00043678	0.000497017
Unknown	refSeq	South_Africa	Vagina	GCA_022456275.1_ASM2245627v1_genomic	0.000528329	0.000584229
Unknown	refSeq	South_Africa	Vagina	GCA_022456315.1_ASM2245631v1_genomic	0.000515361	0.000610302
Unknown	MAG	South_Africa	Vagina	GCA_025345765.1_ASM2534576v1_genomic	0.000417775	0.000553183
Unknown	MAG	South_Africa	Vagina	GCA_025346825.1_ASM2534682v1_genomic	0.000457182	0.000533882
Unknown	MAG	South_Africa	Vagina	GCA_025346985.1_ASM2534698v1_genomic	0.000425274	0.000598871
Unknown	MAG	South_Africa	Vagina	GCA_025347345.1_ASM2534734v1_genomic	0.000389137	0.000552322
Unknown	MAG	South_Africa	Vagina	GCA_025347805.1_ASM2534780v1_genomic	0.000369243	0.000535554
Unknown	MAG	South_Africa	Vagina	GCA_025347925.1_ASM2534792v1_genomic	0.000443162	0.000568893
Unknown	MAG	South_Africa	Vagina	GCA_025349525.1_ASM2534952v1_genomic	0.000436283	0.000572731
Unknown	refSeq	Sweden	urine	GCA_001435015.1_ASM143501v1_genomic	0.000480766	0.000568055
Unknown	refSeq	Sweden	Vagina	GCA_000160875.1_ASM16087v1_genomic	0.000499453	0.000637687
Unknown	MAG	USA	skin	GCA_946221865.1_4taAqaxoSg_bin.28.MAG_genomic	0.000464106	0.00057781
Unknown	refSeq	USA	unknown	GCA_000227195.1_Lactobacillus_sp_7_1_47FAA_V1_gc	0.000444647	0.000562434
Unknown	refSeq	USA	Vagina	GCA_000149065.2_ASM14906v1_genomic	0.000415244	0.000513165
Unknown	refSeq	USA	Vagina	GCA_000149125.2_ASM14912v1_genomic	0.000409309	0.000509144
Unknown	refSeq	USA	Vagina	GCA_000177755.1_ASM17775v1_genomic	0.000504282	0.000592567
Unknown	refSeq	USA	Vagina	GCA_000179955.1_ASM17995v1_genomic	0.000431852	0.000516894
Unknown	refSeq	USA	Vagina	GCA_000191685.2_ASM19168v1_genomic	0.000400608	0.000482434
Unknown	refSeq	USA	Vagina	GCA_000191705.2_ASM19170v1_genomic	0.000397445	0.000478353
Unknown	refSeq	USA	Vagina	GCA_002871595.1_ASM287159v1_genomic	0.000406495	0.00049418
Unknown	refSeq	USA	Vagina	GCA_002884695.1_ASM288469v1_genomic	0.000549302	0.000652145
Unknown	refSeq	USA	Vagina	GCA_002884705.1_ASM288470v1_genomic	0.00048121	0.000606798
Unknown	refSeq	USA	Vagina	GCA_002892385.1_ASM289238v1_genomic	0.000419356	0.000512417
Unknown	refSeq	USA	Vagina	GCA_011058695.1_ASM1105869v1_genomic	0.000519857	0.000546828
Unknown	refSeq	USA	Vagina	GCA_011058715.1_ASM1105871v1_genomic	0.000465201	0.000581998
Unknown	refSeq	USA	Vagina	GCA_011058735.1_ASM1105873v1_genomic	0.000487343	0.000580598
Unknown	refSeq	USA	Vagina	GCA_011058755.1_ASM1105875v1_genomic	0.000477061	0.000564554
Unknown	refSeq	USA	Vagina	GCA_011058775.1_ASM1105877v1_genomic	0.000479883	0.000575981
Unknown	refSeq	USA	Vagina	GCA_011058795.1_ASM1105879v1_genomic	0.000433587	0.000576832
Unknown	MAG	USA	Vagina	GCA_022751815.1_ASM2275181v1_genomic	0.000466656	0.000577562

condition	type	Isolation source	group	Genome	<i>L. iners</i> Zm141	<i>L. iners</i> Zm142
Unknown	MAG	USA	Vagina	GCA_022752045.1_ASM2275204v1_genomic	0.000416961	0.000528917
Unknown	MAG	USA	Vagina	GCA_022753485.1_ASM2275348v1_genomic	0.000479929	0.000574686
Unknown	MAG	USA	Vagina	GCA_022753505.1_ASM2275350v1_genomic	0.00043209	0.000566665
Unknown	MAG	USA	Vagina	GCA_022753765.1_ASM2275376v1_genomic	0.000459167	0.000537158
Unknown	MAG	USA	Vagina	GCA_022753805.1_ASM2275380v1_genomic	0.000499787	0.000597946
Unknown	MAG	USA	Vagina	GCA_022753815.1_ASM2275381v1_genomic	0.000429125	0.000515497
Unknown	MAG	USA	Vagina	GCA_022754065.1_ASM2275406v1_genomic	0.00046617	0.000560728
Unknown	MAG	USA	Vagina	GCA_022754315.1_ASM2275431v1_genomic	0.000463806	0.000549534
Unknown	MAG	USA	Vagina	GCA_022754365.1_ASM2275436v1_genomic	0.000442638	0.00050916
Unknown	MAG	USA	Vagina	GCA_022754385.1_ASM2275438v1_genomic	0.000450882	0.000525908
Unknown	MAG	USA	Vagina	GCA_022754465.1_ASM2275446v1_genomic	0.000454493	0.000573784
Unknown	MAG	USA	Vagina	GCA_022755265.1_ASM2275526v1_genomic	0.000398548	0.000517806
Unknown	MAG	USA	Vagina	GCA_022755295.1_ASM2275529v1_genomic	0.000496613	0.000580029
Unknown	MAG	USA	Vagina	GCA_022755365.1_ASM2275536v1_genomic	0.000451876	0.000503922
Unknown	MAG	USA	Vagina	GCA_022755385.1_ASM2275538v1_genomic	0.000484879	0.000537316
Unknown	MAG	USA	Vagina	GCA_022755765.1_ASM2275576v1_genomic	0.000425819	0.000516821
Unknown	MAG	USA	Vagina	GCA_022756225.1_ASM2275622v1_genomic	0.000454508	0.000586957
Unknown	MAG	USA	Vagina	GCA_022756655.1_ASM2275665v1_genomic	0.00043541	0.000531512
Unknown	MAG	USA	Vagina	GCA_022756705.1_ASM2275670v1_genomic	0.000450734	0.000584993
Unknown	MAG	USA	Vagina	GCA_022757145.1_ASM2275714v1_genomic	0.000411083	0.000514997
Unknown	MAG	USA	Vagina	GCA_022757265.1_ASM2275726v1_genomic	0.000426951	0.000579941
Unknown	MAG	USA	Vagina	GCA_022757285.1_ASM2275728v1_genomic	0.000472504	0.000554726
Unknown	MAG	USA	Vagina	GCA_022757315.1_ASM2275731v1_genomic	0.000454358	0.000573748
Unknown	MAG	USA	Vagina	GCA_022757485.1_ASM2275748v1_genomic	0.000447838	0.000580615
Unknown	MAG	USA	Vagina	GCA_022757585.1_ASM2275758v1_genomic	0.000396221	0.00056237
Unknown	MAG	USA	Vagina	GCA_025345925.1_ASM2534592v1_genomic	0.000460635	0.000606372
Unknown	MAG	USA	Vagina	GCA_025345985.1_ASM2534598v1_genomic	0.000469903	0.000587282
Unknown	MAG	USA	Vagina	GCA_025345995.1_ASM2534599v1_genomic	0.00043922	0.000574336
Unknown	MAG	USA	Vagina	GCA_025346025.1_ASM2534602v1_genomic	0.000413168	0.000584906
Unknown	MAG	USA	Vagina	GCA_025346125.1_ASM2534612v1_genomic	0.000491957	0.000606764
Unknown	MAG	USA	Vagina	GCA_025346145.1_ASM2534614v1_genomic	0.000505618	0.000604418
Unknown	Isolate	USA	Vagina	GCA_027584045.1_ASM2758404v1_genomic	0.000454496	0.000609284
Unknown	MAG	USA	Vagina	GCA_946892165.1_SRR12830918_bin.2_metaWRAP_v1	0.000392084	0.00050408
Unknown	MAG	USA	Vagina	GCA_946998945.1_SRR16916876_bin.22_metaWRAP_v	0.000408831	0.000502076
Unknown	MAG	USA	Vagina	GCA_947036365.1_SRR11742807_bin.1_metaWRAP_v1	0.000436232	0.000525084
Unknown	MAG	USA	Vagina	GCA_947252835.1_SRR17635580_bin.10_metaWRAP_v	0.000445204	0.000540982
Unknown	MAG	USA	Vagina	GCA_947254455.1_SRR17635670_bin.3_metaWRAP_v1	0.000468888	0.000554397

Genome	condition	<i>L. iners</i> Zm143	<i>L. iners</i> Zm234
GCA_009857205.1_ASM985720v1_genomic	Unknown	0.00056682	0.000574616
O22A.7	BV	0.000401486	0.000431336
GCA_022456155.1_ASM2245615v1_genomic	BV	0.000379666	0.00039774
GCA_025345685.1_ASM2534568v1_genomic	BV	0.000448785	0.000464913
GCA_025347755.1_ASM2534775v1_genomic	BV	0.000485777	0.00050277
GCA_025348765.1_ASM2534876v1_genomic	BV	0.00038298	0.000390725
GCA_025348885.1_ASM2534888v1_genomic	BV	0.000456289	0.000448636
GCA_025349405.1_ASM2534940v1_genomic	BV	0.000484326	0.000469672
GCA_000149145.2_ASM14914v1_genomic	BV	0.00042001	0.00042118
GCA_000179935.1_ASM17993v1_genomic	BV	0.000429029	0.000419072
GCA_000179975.1_ASM17997v1_genomic	BV	0.000390342	0.000407556
GCA_000179995.1_ASM17999v1_genomic	BV	0.000379496	0.000430752
GCA_000185405.1_ASM18540v1_genomic	BV	0.000431688	0.000402921
GCA_022455765.1_ASM2245576v1_genomic	Intermediate	0.000464335	0.00043944
GCA_022455795.1_ASM2245579v1_genomic	Intermediate	0.000389203	0.000400214
GCA_022455815.1_ASM2245581v1_genomic	Intermediate	0.000457228	0.000456975
GCA_022456055.1_ASM2245605v1_genomic	Intermediate	0.000421365	0.000398445
GCA_022456325.1_ASM2245632v1_genomic	Intermediate	0.00039661	0.000405393
GCA_022456355.1_ASM2245635v1_genomic	Intermediate	0.000436472	0.000381836
GCA_022456375.1_ASM2245637v1_genomic	Intermediate	0.000414414	0.000435025
GCA_022456395.1_ASM2245639v1_genomic	Intermediate	0.000416464	0.00038603
GCA_022456415.1_ASM2245641v1_genomic	Intermediate	0.000464366	0.000438444
GCA_022456425.1_ASM2245642v1_genomic	Intermediate	0.000425275	0.000427282
GCA_025345785.1_ASM2534578v1_genomic	Intermediate	0.000440109	0.000466073
GCA_025347565.1_ASM2534756v1_genomic	Intermediate	0.000432839	0.000426632
GCA_025348745.1_ASM2534874v1_genomic	Intermediate	0.0004599	0.000387602
H12.4	No_BV	0.000403963	0.000426625
GCA_022456075.1_ASM2245607v1_genomic	No_BV	0.000449091	0.000382863
GCA_022456095.1_ASM2245609v1_genomic	No_BV	0.000434931	0.000403443
GCA_022456475.1_ASM2245647v1_genomic	No_BV	0.000426791	0.000418445
GCA_025345815.1_ASM2534581v1_genomic	No_BV	0.000445136	0.000453696
GCA_025346805.1_ASM2534680v1_genomic	No_BV	0.000391518	0.000443245
GCA_025347445.1_ASM2534744v1_genomic	No_BV	0.000486998	0.000381236
GCA_025347585.1_ASM2534758v1_genomic	No_BV	0.000453421	0.000529151
GCA_025347625.1_ASM2534762v1_genomic	No_BV	0.00041125	0.000421636
GCA_025347745.1_ASM2534774v1_genomic	No_BV	0.000451327	0.000457514
GCA_025347945.1_ASM2534794v1_genomic	No_BV	0.000507377	0.000479892
GCA_025349485.1_ASM2534948v1_genomic	No_BV	0.000453543	0.000466799
GCA_000149085.2_ASM14908v1_genomic	No_BV	0.000414691	0.000367076
GCA_000149105.2_ASM14910v1_genomic	No_BV	0.000415378	0.000437039
GCA_000204435.2_ASM20443v1_genomic	No_BV	0.000419358	0.000405091
GCA_019400045.1_ASM1940004v1_genomic	Unknown	0.000539826	0.000427768
GCA_019400055.1_ASM1940005v1_genomic	Unknown	0.000519918	0.000468703
GCA_019400215.1_ASM1940021v1_genomic	Unknown	0.000423936	0.000416766
GCA_019400225.1_ASM1940022v1_genomic	Unknown	0.000486226	0.000420122
GCA_019400285.1_ASM1940028v1_genomic	Unknown	0.000449678	0.000438841
GCA_019400305.1_ASM1940030v1_genomic	Unknown	0.000430827	0.000434857
GCA_019400315.1_ASM1940031v1_genomic	Unknown	0.000417669	0.000428191

Genome	condition	<i>L. iners</i> Zm143	<i>L. iners</i> Zm234
GCA_019400335.1_ASM1940033v1_genomic	Unknown	0.000485148	0.000507105
GCA_019400365.1_ASM1940036v1_genomic	Unknown	0.000488175	0.000466909
GCA_019459565.1_ASM1945956v1_genomic	Unknown	0.000456085	0.000428208
GCA_022755495.1_ASM2275549v1_genomic	Unknown	0.000467855	0.000431906
GCA_022755525.1_ASM2275552v1_genomic	Unknown	0.000482556	0.000492068
GCA_022755565.1_ASM2275556v1_genomic	Unknown	0.000392984	0.000431312
GCA_946891125.1_ERR9538700_bin.1_metaWRAP_v1.3_MAG_genomic	Unknown	0.000458347	0.000479605
GCA_947086835.1_SRR10258561_bin.1_metaWRAP_v1.3_MAG_genomic	Unknown	0.000455981	0.000442045
GCA_947036755.1_ERR4705195_bin.8_metaWRAP_v1.3_MAG_genomic	Unknown	0.000482031	0.000456373
GCA_022751285.1_ASM2275128v1_genomic	Unknown	0.00044702	0.000429532
GCA_022751435.1_ASM2275143v1_genomic	Unknown	0.000436583	0.000449162
GCA_009556455.1_ASM955645v1_genomic	Unknown	0.000614913	0.000641902
GCA_010748955.1_ASM1074895v1_genomic	Unknown	0.000571895	0.00049502
GCA_902374445.1_MGYG-HGUT-01383_genomic	Unknown	0.000419816	0.000397355
GCA_937919235.1_SRR2241415_bin.4_CONCOCT_v1.1_MAG_genomic	Unknown	0.000502504	0.000499586
GCA_022456115.1_ASM2245611v1_genomic	Unknown	0.000461028	0.000433159
GCA_022456135.1_ASM2245613v1_genomic	Unknown	0.000389174	0.00043914
GCA_022456165.1_ASM2245616v1_genomic	Unknown	0.000478921	0.000503795
GCA_022456255.1_ASM2245625v1_genomic	Unknown	0.000448567	0.000439878
GCA_022456275.1_ASM2245627v1_genomic	Unknown	0.000473331	0.000449692
GCA_022456315.1_ASM2245631v1_genomic	Unknown	0.000516814	0.000541456
GCA_025345765.1_ASM2534576v1_genomic	Unknown	0.000459136	0.000426648
GCA_025346825.1_ASM2534682v1_genomic	Unknown	0.00046742	0.000463064
GCA_025346985.1_ASM2534698v1_genomic	Unknown	0.000467359	0.000524603
GCA_025347345.1_ASM2534734v1_genomic	Unknown	0.000424126	0.00041899
GCA_025347805.1_ASM2534780v1_genomic	Unknown	0.000413424	0.00038847
GCA_025347925.1_ASM2534792v1_genomic	Unknown	0.000446214	0.000453501
GCA_025349525.1_ASM2534952v1_genomic	Unknown	0.000468719	0.000454765
GCA_001435015.1_ASM143501v1_genomic	Unknown	0.00043118	0.00044566
GCA_000160875.1_ASM16087v1_genomic	Unknown	0.000557904	0.000510302
GCA_946221865.1_4taAqaxoSg_bin.28.MAG_genomic	Unknown	0.000466656	0.000463452
GCA_000227195.1_Lactobacillus_sp_7_1_47FAA_V1_genomic	Unknown	0.000446923	0.000363453
GCA_000149065.2_ASM14906v1_genomic	Unknown	0.000394639	0.000390485
GCA_000149125.2_ASM14912v1_genomic	Unknown	0.000401437	0.000446496
GCA_000177755.1_ASM17775v1_genomic	Unknown	0.000488655	0.000447587
GCA_000179955.1_ASM17995v1_genomic	Unknown	0.000424981	0.000470486
GCA_000191685.2_ASM19168v1_genomic	Unknown	0.000382169	0.000410553
GCA_000191705.2_ASM19170v1_genomic	Unknown	0.000375255	0.000396738
GCA_002871595.1_ASM287159v1_genomic	Unknown	0.000418426	0.000403616
GCA_002884695.1_ASM288469v1_genomic	Unknown	0.000524708	0.000460078
GCA_002884705.1_ASM288470v1_genomic	Unknown	0.000546513	0.000513478
GCA_002892385.1_ASM289238v1_genomic	Unknown	0.000407078	0.00039365
GCA_011058695.1_ASM1105869v1_genomic	Unknown	0.000559335	0.000448192
GCA_011058715.1_ASM1105871v1_genomic	Unknown	0.000430373	0.000444683
GCA_011058735.1_ASM1105873v1_genomic	Unknown	0.000481903	0.000472988
GCA_011058755.1_ASM1105875v1_genomic	Unknown	0.000485266	0.000425589
GCA_011058775.1_ASM1105877v1_genomic	Unknown	0.000466492	0.000473046
GCA_011058795.1_ASM1105879v1_genomic	Unknown	0.000449629	0.000454689
GCA_022751815.1_ASM2275181v1_genomic	Unknown	0.000425996	0.000466268

Genome	condition	<i>L. iners</i> Zm143	<i>L. iners</i> Zm234
GCA_022752045.1_ASM2275204v1_genomic	Unknown	0.000444706	0.000413146
GCA_022753485.1_ASM2275348v1_genomic	Unknown	0.000474879	0.000442137
GCA_022753505.1_ASM2275350v1_genomic	Unknown	0.000422905	0.000436058
GCA_022753765.1_ASM2275376v1_genomic	Unknown	0.000500597	0.00048639
GCA_022753805.1_ASM2275380v1_genomic	Unknown	0.000487126	0.000475041
GCA_022753815.1_ASM2275381v1_genomic	Unknown	0.000384226	0.000377488
GCA_022754065.1_ASM2275406v1_genomic	Unknown	0.000466427	0.000457504
GCA_022754315.1_ASM2275431v1_genomic	Unknown	0.000439985	0.00051911
GCA_022754365.1_ASM2275436v1_genomic	Unknown	0.000436489	0.00037982
GCA_022754385.1_ASM2275438v1_genomic	Unknown	0.000454572	0.000431512
GCA_022754465.1_ASM2275446v1_genomic	Unknown	0.000465117	0.000445232
GCA_022755265.1_ASM2275526v1_genomic	Unknown	0.000468578	0.000410131
GCA_022755295.1_ASM2275529v1_genomic	Unknown	0.000524473	0.000508505
GCA_022755365.1_ASM2275536v1_genomic	Unknown	0.000434894	0.000380674
GCA_022755385.1_ASM2275538v1_genomic	Unknown	0.000464554	0.000395895
GCA_022755765.1_ASM2275576v1_genomic	Unknown	0.000426602	0.000483222
GCA_022756225.1_ASM2275622v1_genomic	Unknown	0.000468645	0.00044634
GCA_022756655.1_ASM2275665v1_genomic	Unknown	0.000412858	0.000393002
GCA_022756705.1_ASM2275670v1_genomic	Unknown	0.00045397	0.0004253
GCA_022757145.1_ASM2275714v1_genomic	Unknown	0.000390525	0.000382393
GCA_022757265.1_ASM2275726v1_genomic	Unknown	0.000460449	0.00042616
GCA_022757285.1_ASM2275728v1_genomic	Unknown	0.000477199	0.000441066
GCA_022757315.1_ASM2275731v1_genomic	Unknown	0.000468414	0.000440351
GCA_022757485.1_ASM2275748v1_genomic	Unknown	0.000470396	0.00043857
GCA_022757585.1_ASM2275758v1_genomic	Unknown	0.000416488	0.000431906
GCA_025345925.1_ASM2534592v1_genomic	Unknown	0.000435566	0.00042946
GCA_025345985.1_ASM2534598v1_genomic	Unknown	0.000484032	0.000486457
GCA_025345995.1_ASM2534599v1_genomic	Unknown	0.000519825	0.000509164
GCA_025346025.1_ASM2534602v1_genomic	Unknown	0.000448248	0.000387129
GCA_025346125.1_ASM2534612v1_genomic	Unknown	0.000433348	0.000483518
GCA_025346145.1_ASM2534614v1_genomic	Unknown	0.000486094	0.000488661
GCA_027584045.1_ASM2758404v1_genomic	Unknown	0.000536338	0.000492359
GCA_946892165.1_SRR12830918_bin.2_metaWRAP_v1.3_MAG_genomic	Unknown	0.000432786	0.000406187
GCA_946998945.1_SRR16916876_bin.22_metaWRAP_v1.3_MAG_genomic	Unknown	0.000444853	0.00045663
GCA_947036365.1_SRR11742807_bin.1_metaWRAP_v1.3_MAG_genomic	Unknown	0.000424146	0.000414086
GCA_947252835.1_SRR17635580_bin.10_metaWRAP_v1.3_MAG_genomic	Unknown	0.000429734	0.000411858
GCA_947254455.1_SRR17635670_bin.3_metaWRAP_v1.3_MAG_genomic	Unknown	0.000445836	0.00042021

Genome	<i>L. iners</i> Zm236	<i>L. iners</i> Zm241	<i>L. iners</i> Zm261
GCA_009857205.1_ASM985720v1_genomic	0.000637306	0.000520066	0.00060912
O22A.7	0.000531516	0.000426486	0.000435595
GCA_022456155.1_ASM2245615v1_genomic	0.000481515	0.000443638	0.000384786
GCA_025345685.1_ASM2534568v1_genomic	0.000507194	0.0004594	0.000464429
GCA_025347755.1_ASM2534775v1_genomic	0.000616088	0.000495188	0.000501645
GCA_025348765.1_ASM2534876v1_genomic	0.000504597	0.000401793	0.000442259
GCA_025348885.1_ASM2534888v1_genomic	0.000515856	0.000451277	0.000439172
GCA_025349405.1_ASM2534940v1_genomic	0.000548116	0.000457229	0.000487427
GCA_000149145.2_ASM14914v1_genomic	0.000528635	0.000418822	0.000463821
GCA_000179935.1_ASM17993v1_genomic	0.00048158	0.000411947	0.000423438
GCA_000179975.1_ASM17997v1_genomic	0.000497719	0.000421517	0.000403227
GCA_000179995.1_ASM17999v1_genomic	0.000481162	0.000387075	0.000434561
GCA_000185405.1_ASM18540v1_genomic	0.000485473	0.000393349	0.00042988
GCA_022455765.1_ASM2245576v1_genomic	0.000500099	0.000437792	0.000459774
GCA_022455795.1_ASM2245579v1_genomic	0.000488568	0.000400104	0.000440144
GCA_022455815.1_ASM2245581v1_genomic	0.000510677	0.000451516	0.000475546
GCA_022456055.1_ASM2245605v1_genomic	0.00050611	0.000384171	0.000436996
GCA_022456325.1_ASM2245632v1_genomic	0.00047616	0.000387407	0.000384275
GCA_022456355.1_ASM2245635v1_genomic	0.000514667	0.000381645	0.000436069
GCA_022456375.1_ASM2245637v1_genomic	0.000457662	0.000431829	0.000465083
GCA_022456395.1_ASM2245639v1_genomic	0.000534352	0.000404623	0.000428021
GCA_022456415.1_ASM2245641v1_genomic	0.000509785	0.000452507	0.000497538
GCA_022456425.1_ASM2245642v1_genomic	0.000536703	0.000482873	0.000444915
GCA_025345785.1_ASM2534578v1_genomic	0.000549077	0.000460879	0.000444833
GCA_025347565.1_ASM2534756v1_genomic	0.000467768	0.000413597	0.00042018
GCA_025348745.1_ASM2534874v1_genomic	0.00048774	0.000438246	0.000488725
H12.4	0.000494438	0.000421888	0.000431921
GCA_022456075.1_ASM2245607v1_genomic	0.000504321	0.000415038	0.000410371
GCA_022456095.1_ASM2245609v1_genomic	0.000504551	0.000378391	0.000427691
GCA_022456475.1_ASM2245647v1_genomic	0.000506063	0.000407893	0.000459219
GCA_025345815.1_ASM2534581v1_genomic	0.000503121	0.000462713	0.000449406
GCA_025346805.1_ASM2534680v1_genomic	0.000508714	0.000404065	0.000476444
GCA_025347445.1_ASM2534744v1_genomic	0.000478056	0.000396862	0.000402096
GCA_025347585.1_ASM2534758v1_genomic	0.000474144	0.000449252	0.000473301
GCA_025347625.1_ASM2534762v1_genomic	0.000503636	0.000452431	0.000453876
GCA_025347745.1_ASM2534774v1_genomic	0.000538573	0.000472527	0.000483357
GCA_025347945.1_ASM2534794v1_genomic	0.000569506	0.000474963	0.000520836
GCA_025349485.1_ASM2534948v1_genomic	0.000509331	0.000483634	0.000450333
GCA_000149085.2_ASM14908v1_genomic	0.000453571	0.000395482	0.0004125
GCA_000149105.2_ASM14910v1_genomic	0.000497964	0.000414383	0.000421173
GCA_000204435.2_ASM20443v1_genomic	0.000505598	0.000379615	0.000417891
GCA_019400045.1_ASM1940004v1_genomic	0.000491053	0.00046669	0.000487945
GCA_019400055.1_ASM1940005v1_genomic	0.000576478	0.000493608	0.00052204
GCA_019400215.1_ASM1940021v1_genomic	0.000466645	0.000413236	0.000408118
GCA_019400225.1_ASM1940022v1_genomic	0.000576307	0.000441654	0.000465534
GCA_019400285.1_ASM1940028v1_genomic	0.0004918	0.000452639	0.00046974
GCA_019400305.1_ASM1940030v1_genomic	0.000511418	0.000418661	0.000463735
GCA_019400315.1_ASM1940031v1_genomic	0.0005338	0.000432499	0.000452768

Genome	<i>L. iners</i> Zm236	<i>L. iners</i> Zm241	<i>L. iners</i> Zm261
GCA_019400335.1_ASM1940033v1_genomic	0.000575897	0.000482108	0.000488422
GCA_019400365.1_ASM1940036v1_genomic	0.000556046	0.000443865	0.000500443
GCA_019459565.1_ASM1945956v1_genomic	0.000470378	0.000429221	0.000398214
GCA_022755495.1_ASM2275549v1_genomic	0.000498086	0.000424826	0.000479561
GCA_022755525.1_ASM2275552v1_genomic	0.000581186	0.000471104	0.000492912
GCA_022755565.1_ASM2275556v1_genomic	0.000541768	0.000446097	0.000485009
GCA_946891125.1_ERR9538700_bin.1_metaWRAP_v1.3_MAG_genomic	0.000544217	0.000424412	0.000500748
GCA_947086835.1_SRR10258561_bin.1_metaWRAP_v1.3_MAG_genomic	0.000525412	0.000428462	0.000516857
GCA_947036755.1_ERR4705195_bin.8_metaWRAP_v1.3_MAG_genomic	0.000585855	0.000486533	0.000527042
GCA_022751285.1_ASM2275128v1_genomic	0.000516338	0.000446228	0.000459275
GCA_022751435.1_ASM2275143v1_genomic	0.000509134	0.000465391	0.000480935
GCA_009556455.1_ASM955645v1_genomic	0.000705354	0.000607258	0.000604625
GCA_010748955.1_ASM1074895v1_genomic	0.000617705	0.000552172	0.000601123
GCA_902374445.1_MGYG-HGUT-01383_genomic	0.000493487	0.000405396	0.000482526
GCA_937919235.1_SRR2241415_bin.4_CONCOCT_v1.1_MAG_genomic	0.000538905	0.000505469	0.000503638
GCA_022456115.1_ASM2245611v1_genomic	0.000515421	0.000412512	0.000471557
GCA_022456135.1_ASM2245613v1_genomic	0.000502477	0.00041742	0.000421302
GCA_022456165.1_ASM2245616v1_genomic	0.000534854	0.000490124	0.000433815
GCA_022456255.1_ASM2245625v1_genomic	0.000476884	0.00042801	0.00043922
GCA_022456275.1_ASM2245627v1_genomic	0.000543092	0.000436037	0.000491064
GCA_022456315.1_ASM2245631v1_genomic	0.000552245	0.000527218	0.000553726
GCA_025345765.1_ASM2534576v1_genomic	0.000513015	0.000460823	0.00048145
GCA_025346825.1_ASM2534682v1_genomic	0.000542767	0.000402241	0.000443017
GCA_025346985.1_ASM2534698v1_genomic	0.000565422	0.000450821	0.000453095
GCA_025347345.1_ASM2534734v1_genomic	0.00048471	0.000420696	0.000452833
GCA_025347805.1_ASM2534780v1_genomic	0.000457004	0.00037062	0.000405805
GCA_025347925.1_ASM2534792v1_genomic	0.000493063	0.00041467	0.000464456
GCA_025349525.1_ASM2534952v1_genomic	0.000533843	0.000431346	0.000462482
GCA_001435015.1_ASM143501v1_genomic	0.000466346	0.000428462	0.000436904
GCA_000160875.1_ASM16087v1_genomic	0.000573834	0.000522675	0.000525589
GCA_946221865.1_4taAqaxoSg_bin.28.MAG_genomic	0.000548434	0.000431221	0.000523397
GCA_000227195.1_Lactobacillus_sp_7_1_47FAA_V1_genomic	0.000441611	0.000353084	0.000442279
GCA_000149065.2_ASM14906v1_genomic	0.000474378	0.000368908	0.000422748
GCA_000149125.2_ASM14912v1_genomic	0.000525249	0.000402683	0.000407116
GCA_000177755.1_ASM17775v1_genomic	0.000555251	0.00049886	0.000462015
GCA_000179955.1_ASM17995v1_genomic	0.000513452	0.000407753	0.000421523
GCA_000191685.2_ASM19168v1_genomic	0.000449132	0.000362841	0.000441298
GCA_000191705.2_ASM19170v1_genomic	0.000481239	0.000388363	0.000437808
GCA_002871595.1_ASM287159v1_genomic	0.000470683	0.000410788	0.000522787
GCA_002884695.1_ASM288469v1_genomic	0.000635122	0.000493855	0.000565098
GCA_002884705.1_ASM288470v1_genomic	0.000579254	0.000494819	0.000569886
GCA_002892385.1_ASM289238v1_genomic	0.000446996	0.000417979	0.000454229
GCA_011058695.1_ASM1105869v1_genomic	0.000536861	0.000439559	0.00054289
GCA_011058715.1_ASM1105871v1_genomic	0.000538206	0.000462158	0.00047667
GCA_011058735.1_ASM1105873v1_genomic	0.000556507	0.000453417	0.000506135
GCA_011058755.1_ASM1105875v1_genomic	0.00054383	0.000438102	0.000597013
GCA_011058775.1_ASM1105877v1_genomic	0.000563149	0.000426337	0.000470851
GCA_011058795.1_ASM1105879v1_genomic	0.000528175	0.000462562	0.000512189
GCA_022751815.1_ASM2275181v1_genomic	0.000550268	0.000442653	0.000459595

Genome	<i>L. iners</i> Zm236	<i>L. iners</i> Zm241	<i>L. iners</i> Zm261
GCA_022752045.1_ASM2275204v1_genomic	0.000484147	0.000415341	0.000445649
GCA_022753485.1_ASM2275348v1_genomic	0.000503005	0.000446225	0.000472443
GCA_022753505.1_ASM2275350v1_genomic	0.000486927	0.000429147	0.000429726
GCA_022753765.1_ASM2275376v1_genomic	0.00055696	0.000449841	0.000473676
GCA_022753805.1_ASM2275380v1_genomic	0.000499504	0.000436009	0.000571685
GCA_022753815.1_ASM2275381v1_genomic	0.000509047	0.000392482	0.000436346
GCA_022754065.1_ASM2275406v1_genomic	0.000547456	0.000462363	0.000503986
GCA_022754315.1_ASM2275431v1_genomic	0.000533933	0.000424392	0.00045649
GCA_022754365.1_ASM2275436v1_genomic	0.000472329	0.000392191	0.000421996
GCA_022754385.1_ASM2275438v1_genomic	0.000522726	0.000418916	0.000433667
GCA_022754465.1_ASM2275446v1_genomic	0.000546314	0.00045664	0.000508925
GCA_022755265.1_ASM2275526v1_genomic	0.000526608	0.000408557	0.000434904
GCA_022755295.1_ASM2275529v1_genomic	0.000578002	0.00048814	0.000561971
GCA_022755365.1_ASM2275536v1_genomic	0.000476426	0.000397661	0.00040855
GCA_022755385.1_ASM2275538v1_genomic	0.000522776	0.000421791	0.000475489
GCA_022755765.1_ASM2275576v1_genomic	0.000506625	0.000422671	0.000459698
GCA_022756225.1_ASM2275622v1_genomic	0.000513593	0.000443855	0.000458433
GCA_022756655.1_ASM2275665v1_genomic	0.000490595	0.000431009	0.000458605
GCA_022756705.1_ASM2275670v1_genomic	0.000493817	0.00038915	0.000419798
GCA_022757145.1_ASM2275714v1_genomic	0.00048572	0.000409818	0.000394281
GCA_022757265.1_ASM2275726v1_genomic	0.000550487	0.000428791	0.000485167
GCA_022757285.1_ASM2275728v1_genomic	0.000489057	0.000420608	0.000496144
GCA_022757315.1_ASM2275731v1_genomic	0.000473385	0.00045216	0.000467266
GCA_022757485.1_ASM2275748v1_genomic	0.000451719	0.000421714	0.000481373
GCA_022757585.1_ASM2275758v1_genomic	0.000485758	0.000455315	0.000422521
GCA_025345925.1_ASM2534592v1_genomic	0.000531398	0.000461571	0.000489993
GCA_025345985.1_ASM2534598v1_genomic	0.000570374	0.000454323	0.000511173
GCA_025345995.1_ASM2534599v1_genomic	0.000556111	0.000447499	0.000506095
GCA_025346025.1_ASM2534602v1_genomic	0.000513307	0.000434443	0.000459769
GCA_025346125.1_ASM2534612v1_genomic	0.000510443	0.000480066	0.000544448
GCA_025346145.1_ASM2534614v1_genomic	0.00054839	0.000500024	0.000488868
GCA_027584045.1_ASM2758404v1_genomic	0.000590612	0.000508661	0.000495091
GCA_946892165.1_SRR12830918_bin.2_metaWRAP_v1.3_MAG_genomic	0.00045766	0.000395195	0.000408959
GCA_946998945.1_SRR16916876_bin.22_metaWRAP_v1.3_MAG_genomic	0.000549522	0.000473236	0.000425648
GCA_947036365.1_SRR11742807_bin.1_metaWRAP_v1.3_MAG_genomic	0.000497038	0.000461216	0.000475828
GCA_947252835.1_SRR17635580_bin.10_metaWRAP_v1.3_MAG_genomic	0.000494922	0.000452222	0.000486698
GCA_947254455.1_SRR17635670_bin.3_metaWRAP_v1.3_MAG_genomic	0.000513595	0.000445039	0.000463059

Supplementary Table 11 Primers used in this study.

Symbol/Name	Forward primer	Reverse primer
<i>L. iners</i> _16s	GTCTGCCTTGAAGATCGG	ACAGTTGATAGGCATCATC
Bacteria_16s	TCCTACGGGAGGCAGCAGT	GGACTACCAGGGTATCTAATCCTGTT
<i>G.vaginalis</i> _16s	AGTGTGAACTTGTCGTGGA	ATCACCGGAATCAGCCTTACA