

Appendix Tables S1-S6 for Endosome and Golgi-associated degradation (EGAD) of membrane proteins regulates sphingolipid metabolism

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Appendix Table S1 - related to Figure 1:
Genes that display a synthetic sick / lethal phenotype with *vps4Δ* mutants

systematic name	standard name	Synthetic Lethal (SL) in both replicates	SL in one and synthetic sick in the other replicate
YAL013W	DEP1		+
YAL016W	TPD3	+	
YAL021C	CCR4	+	
YAL044C	GCV3	+	
YBL003C	HTA2		+
YBL007C	SLA1	+	
YBL010C			+
YBL022C	PIM1	+	
YBL025W	RRN10	+	
YBL058W	SHP1	+	
YBR036C	CSG2		+
YBR089C-A	NHP6B		+
YBR095C	RXT2	+	
YBR099C		+	
YBR126C	TPS1	+	
YBR127C	VMA2	+	
YBR171W	SEC66	+	
YBR189W	RPS9B		+
YCL007C			+
YCR044C	PER1	+	
YCR063W	BUD31	+	
YCR081W	SRB8		+
YCR094W	CDC50	+	
YDL053C	PBP4	+	
YDL091C	UBX3	+	
YDL160C	DHH1	+	
YDL185W	VMA1	+	
YDR129C	SAC6	+	
YDR138W	HPR1	+	
YDR159W	SAC3	+	
YDR161W	ACL4		+
YDR162C	NBP2	+	
YDR207C	UME6		+
YDR225W	HTA1	+	
YDR320C	SWA2	+	
YDR359C	EAF1	+	
YDR455C		+	
YDR456W	NHX1	+	
YEL027W	VMA3	+	

YEL042W	GDA1	+	
YER070W	RNR1	+	
YER074W	RPS24A		+
YER122C	GLO3	+	
YER162C	RAD4		+
YER178W	PDA1		+
YFR030W	MET10	+	
YGL007C-A		+	
YGL023C	PIB2	+	
YGL167C	PMR1	+	
YGL168W	HUR1	+	
YGL188C-A			+
YGL200C	EMP24		+
YGL218W		+	
YGR020C	VMA7	+	
YGR036C	CAX4		+
YGR105W	VMA21	+	
YHL011C	PRS3	+	
YHL025W	SNF6	+	
YHR039C-A	VMA10	+	
YHR067W	HTD2	+	
YHR182W		+	
YIL052C	RPL34B	+	
YIL090W	ICE2		+
YJL029C	VPS53	+	
YJL179W	PFD1	+	
YJL200C	ACO2		+
YJR048W	CYC1	+	
YJR105W	ADO1		+
YKL034W	TUL1		+
YKL048C	ELM1		+
YKL055C	OAR1	+	
YKL080W	VMA5	+	
YKL118W		+	
YKL126W	YPK1	+	
YKL212W	SAC1		+
YKR024C	DBP7	+	
YLR235C		+	
YLR239C	LIP2	+	
YLR285W	NNT1	+	
YLR287C		+	
YLR294C			+
YLR296W		+	
YLR300W	EXG1	+	
YLR309C	IMH1		+
YLR312W-A	MRPL15	+	

YLR320W	MMS22	+	
YLR362W	STE11		+
YLR403W	SFP1	+	
YML008C	ERG6		+
YML009W-B		+	
YML094C-A		+	
YML094W	GIM5	+	
YML112W	CTK3	+	
YMR003W	AIM34	+	
YMR015C	ERG5		+
YMR038C	CCS1	+	
YMR123W	PKR1	+	
YMR165C	PAH1	+	
YMR202W	ERG2	+	
YNL064C	YDJ1		+
YNL076W	MKS1	+	
YNL084C	END3		+
YNL138W	SRV2	+	
YNL229C	URE2	+	
YNL236W	SIN4	+	
YNL243W	SLA2	+	
YNL250W	RAD50		+
YNL280C	ERG24	+	
YNL296W			+
YOL001W	PHO80	+	
YOL009C	MDM12	+	
YOL072W	THP1	+	
YOR061W	CKA2	+	
YOR221C	MCT1	+	
YOR331C		+	
YOR332W	VMA4	+	
YPL042C	SSN3		+
YPL148C	PPT2	+	
YPR172W			+
YPR173C	VPS4	+ (bait)	

Appendix Table S2 - related to Figure 1: Gene Ontology Analysis of Macromolecular Complexes

GOID	GO term	Frequency	Genome Frequency	Gene(s)	pvalue_adj	enrichment
GO:0044695	Dsc E3 ubiquitin ligase complex	2 out of 119 genes, 1.7%	4 of 6433 genes, 0.1%	UBX3,TUL1	1,01E-02	27,03
GO:0070390	transcription export complex 2	2 out of 119 genes, 1.7%	4 of 6433 genes, 0.1%	SAC3,THP1	1,01E-02	27,03
GO:0016471	vacuolar proton-transporting V-type ATPase complex	7 out of 119 genes, 5.9%	17 of 6433 genes, 0.3%	VMA2,VMA1,VMA3,VM	1,57E-07	22,26
GO:0016592	mediator complex	3 out of 119 genes, 2.5%	9 of 6433 genes, 0.1%	SRB8,SIN4,SSN3	4,80E-03	18,02
GO:0016272	prefoldin complex	2 out of 119 genes, 1.7%	6 of 6433 genes, 0.1%	PFD1,GIM5	1,60E-02	18,02
GO:0016593	Cdc73/Paf1 complex	2 out of 119 genes, 1.7%	7 of 6433 genes, 0.1%	CCR4,HPR1	1,83E-02	15,45
GO:0033698	Rpd3L complex	3 out of 119 genes, 2.5%	12 of 6433 genes, 0.2%	DEP1,RXT2,UME6	8,94E-03	13,51
GO:0000788	nuclear nucleosome	2 out of 119 genes, 1.7%	9 of 6433 genes, 0.1%	HTA2,HTA1	2,78E-02	12,01
GO:0070210	Rpd3L-Expanded complex	3 out of 119 genes, 2.5%	19 of 6433 genes, 0.3%	DEP1,RXT2,UME6	1,60E-02	8,54
GO:0000307	cyclin-dependent protein kinase holoenzyme complex	2 out of 119 genes, 1.7%	20 of 6433 genes, 0.3%	CTK3,PHO80	9,61E-02	5,41
GO:0031298	replication fork protection complex	2 out of 119 genes, 1.7%	25 of 6433 genes, 0.4%	HTA2,HTA1	1,22E-01	4,32
GO:0000932	P-body	2 out of 119 genes, 1.7%	42 of 6433 genes, 0.7%	CCR4,DHH1	1,95E-01	2,57
GO:0016591	DNA-directed RNA polymerase II, holoenzyme	3 out of 119 genes, 2.5%	75 of 6433 genes, 1.2%	CCR4,HPR1,SIN4	1,65E-01	2,16
GO:0000790	nuclear chromatin	5 out of 119 genes, 4.2%	133 of 6433 genes, 2.1%	DEP1,HTA2,RXT2,UME6,	1,22E-01	2,03
GO:0005643	nuclear pore	2 out of 119 genes, 1.7%	54 of 6433 genes, 0.8%	SAC3,THP1	2,41E-01	2,00
GO:0010494	cytoplasmic stress granule	3 out of 119 genes, 2.5%	89 of 6433 genes, 1.4%	VMA2,PBP4,DHH1	1,95E-01	1,82
GO:0022627	cytosolic small ribosomal subunit	2 out of 119 genes, 1.7%	65 of 6433 genes, 1.0%	RPS9B,RPS24A	2,58E-01	1,66
GO:0005667	transcription factor complex	2 out of 119 genes, 1.7%	81 of 6433 genes, 1.3%	RRN10,SIN4	2,73E-01	1,33
GO:0030686	90S preribosome	2 out of 119 genes, 1.7%	90 of 6433 genes, 1.4%	RPS9B,CKA2	2,74E-01	1,20
GO:0022626	cytosolic ribosome	3 out of 119 genes, 2.5%	180 of 6433 genes, 2.8%	RPS9B,RPS24A,RPL34B	2,58E-01	0,90
GO:0015934	large ribosomal subunit	2 out of 119 genes, 1.7%	150 of 6433 genes, 2.3%	RPL34B,MRPL15	2,69E-01	0,72

Notes:

Choosing large ribosomal subunit 0.72078431372549 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing ribosome 0.605701103971 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing Sin3-type complex 10.1360294117647 over histone deacetylase complex. Parent-process has a higher p-value.

Choosing P-body 2.57422969187675 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing 90S preribosome 1.20130718954248 over preribosome,intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing cytosolic ribosome 0.900980392156863 over ribosome,intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing preribosome 0.59080681452909 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing nuclear chromatin 2.03228659885007 over chromatin. Parent-process has a higher p-value.

Choosing Rpd3L complex 13.5147058823529 over Sin3-type complex,histone deacetylase complex. Parent-process has a higher p-value.

Choosing Rpd3L-Expanded complex 8.53560371517028 over histone deacetylase complex. Parent-process has a higher p-value.

Choosing Dsc E3 ubiquitin ligase complex 27.0294117647059 over ubiquitin ligase complex. Parent-process has a higher p-value.

Choosing cytosolic small ribosomal subunit 1.66334841628959 over small ribosomal subunit,intracellular ribonucleoprotein complex. Parent-process has a higher p-value.

Choosing small ribosomal subunit 1.08117647058824 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.
Choosing cytoplasmic stress granule 1.82220753469927 over intracellular ribonucleoprotein complex. Parent-process has a higher p-value.
Choosing Cdc73/Paf1 complex 15.4453781512605 over transcription elongation factor complex. Parent-process has a higher p-value.
large ribosomal subunit is the highest level.
cyclin-dependent protein kinase holoenzyme complex is the highest level.
DNA-directed RNA polymerase II, holoenzyme is the highest level.
transcription factor complex is the highest level.
P-body is the highest level.
nuclear pore is the highest level.
90S preribosome is the highest level.
cytosolic ribosome is the highest level.
mediator complex is the highest level.
nuclear chromatin is the highest level.
Rpd3L complex is the highest level.
Rpd3L-Expanded complex is the highest level.
vacuolar proton-transporting V-type ATPase complex is the highest level.
Dsc E3 ubiquitin ligase complex is the highest level.
cytosolic small ribosomal subunit is the highest level.
prefoldin complex is the highest level.
nuclear nucleosome is the highest level.
cytoplasmic stress granule is the highest level.
transcription export complex 2 is the highest level.
replication fork protection complex is the highest level.
Cdc73/Paf1 complex is the highest level.

Appendix Table S3 - related to Figure 1: HMMsearch of the Tul1 ring finger domain against the human UniProt reference proteome. The hitlist is sorted by E-value (of the full sequence) with similarites to Tul1 RING domain

UniProt Acc.	E-value	score	Gene Name	description
Q9H9V4	5,8E-13	48,6	RNF122	RING finger protein 122
Q9Y225	6,7E-12	45,2	RNF24	RING finger protein 24
Q7L0R7	8,1E-12	45	RNF44	RING finger protein 44
Q96MT1	1,4E-11	44,2	RNF145	RING finger protein 145
Q9H0F5	2,5E-11	43,4	RNF38	E3 ubiquitin-protein ligase RNF38
Q9UKV5	4,5E-11	42,6	AMFR	E3 ubiquitin-protein ligase AMFR
Q86TM6	5,8E-11	42,2	SYVN1	E3 ubiquitin-protein ligase synoviolin
Q6ZSG1	7,9E-11	41,8	RNF165	E3 ubiquitin-protein ligase RNF165
Q9P0P0	9,8E-11	41,5	RNF181	E3 ubiquitin-protein ligase RNF181
Q9H0A6	9,8E-11	41,5	RNF32	RING finger protein 32
Q8WU17	1E-10	41,4	RNF139	E3 ubiquitin-protein ligase RNF139
P78317	4,3E-10	39,4	RNF4	E3 ubiquitin-protein ligase RNF4
Q6ZNA4	8,2E-10	38,5	RNF111	E3 ubiquitin-protein ligase Arkadia
Q9Y3C5	0,000000001	38,2	RNF11	RING finger protein 11
Q9Y4L5	1,1E-09	38,1	RNF115	E3 ubiquitin-protein ligase RNF115
Q7Z569	2,1E-09	37,2	BRAP	BRCA1-associated protein
Q9NVW2	3,4E-09	36,6	RLIM	E3 ubiquitin-protein ligase RLIM
Q9H6Y7	3,5E-09	36,5	RNF167	E3 ubiquitin-protein ligase RNF167
Q9Y252	9,6E-09	35,1	RNF6	E3 ubiquitin-protein ligase RNF6
Q9BV68	0,000000011	34,9	RNF126	E3 ubiquitin-protein ligase RNF126
O43567	0,000000012	34,8	RNF13	E3 ubiquitin-protein ligase RNF13
Q86Y13	0,000000015	34,5	DZIP3	E3 ubiquitin-protein ligase DZIP3
Q86XS8	0,000000026	33,7	RNF130	E3 ubiquitin-protein ligase RNF130
Q8NC42	0,000000054	32,7	RNF149	E3 ubiquitin-protein ligase RNF149
Q9ULT6	0,000000057	32,6	ZNRF3	E3 ubiquitin-protein ligase ZNRF3
Q17RB8	0,000000071	32,3	LONRF1	LON peptidase N-terminal domain and RING finger protein 1
Q8N4F7	0,000000073	32,3	RNF175	RING finger protein 175
Q9ULK6	0,000000083	32,1	RNF150	RING finger protein 150
O60683	0,000000093	32	PEX10	Peroxisome biogenesis factor 10

Q9H920	0,000000095	31,9	RNF121	RING finger protein 121
Q8WWF5	0,0000001	31,8	ZNRF4	E3 ubiquitin-protein ligase ZNRF4
O76064	0,00000015	31,3	RNF8	E3 ubiquitin-protein ligase RNF8
Q9Y6U7	0,0000004	29,9	RNF215	RING finger protein 215
Q8ND25	0,00000043	29,8	ZNRF1	E3 ubiquitin-protein ligase ZNRF1
O43164	0,00000046	29,7	PJA2	E3 ubiquitin-protein ligase Praja-2
P53804	0,00000059	29,4	TTC3	E3 ubiquitin-protein ligase TTC3
Q96BH1	0,00000059	29,4	RNF25	E3 ubiquitin-protein ligase RNF25
Q9BWF2	0,00000061	29,3	TRAIP	E3 ubiquitin-protein ligase TRAIP
Q8WVZ7	0,00000063	29,3	RNF133	E3 ubiquitin-protein ligase RNF133
O00237	0,00000082	28,9	RNF103	E3 ubiquitin-protein ligase RNF103
Q8NHG8	0,00000085	28,9	ZNRF2	E3 ubiquitin-protein ligase ZNRF2
O94822	0,00000095	28,7	LTN1	E3 ubiquitin-protein ligase listerin
Q8N7C7	0,0000011	28,5	RNF148	RING finger protein 148
Q68DV7	0,0000018	27,8	RNF43	E3 ubiquitin-protein ligase RNF43
P62877	0,000002	27,7	RBX1	E3 ubiquitin-protein ligase RBX1
Q8TEB7	0,0000023	27,5	RNF128	E3 ubiquitin-protein ligase RNF128
Q496Y0	0,0000026	27,3	LONRF3	LON peptidase N-terminal domain and RING finger protein 3
Q96PM5	0,0000028	27,2	RCHY1	RING finger and CHY zinc finger domain-containing protein 1
Q13702	0,0000028	27,2	RAPSN	43 kDa receptor-associated protein of the synapse
Q3KNV8	0,0000068	26	PCGF3	Polycomb group RING finger protein 3
Q2KHN1	0,0000089	25,6	RNF151	RING finger protein 151
Q9H270	0,000011	25,3	VPS11	Vacuolar protein sorting-associated protein 11 homolog
Q9NS56	0,000012	25,2	TOPORS	E3 ubiquitin-protein ligase Topors
Q99942	0,000015	24,9	RNF5	E3 ubiquitin-protein ligase RNF5
Q8NG27	0,000016	24,8	PJA1	E3 ubiquitin-protein ligase Praja-1
Q13064	0,000016	24,8	MKRN3	Probable E3 ubiquitin-protein ligase makorin-3
Q96GF1	0,000016	24,8	RNF185	E3 ubiquitin-protein ligase RNF185
Q8TDB6	0,000023	24,3	DTX3L	E3 ubiquitin-protein ligase DTX3L
Q13434	0,000028	24	MKRN4P	Putative E3 ubiquitin-protein ligase makorin-4
Q9UHC7	0,000038	23,6	MKRN1	E3 ubiquitin-protein ligase makorin-1
Q8N9I9	0,00004	23,5	DTX3	Probable E3 ubiquitin-protein ligase DTX3
Q6PCD5	0,000058	23	RFWD3	E3 ubiquitin-protein ligase RFWD3

P22681	0,00007	22,7	CBL	E3 ubiquitin-protein ligase CBL
Q13191	0,000075	22,7	CBLB	E3 ubiquitin-protein ligase CBL-B
Q96EQ8	0,000075	22,6	RNF125	E3 ubiquitin-protein ligase RNF125
Q8TEC5	0,000079	22,6	SH3RF2	E3 ubiquitin-protein ligase SH3RF2
Q7Z6J0	0,000087	22,4	SH3RF1	E3 ubiquitin-protein ligase SH3RF1
Q9BRZ2	0,00011	22,1	TRIM56	E3 ubiquitin-protein ligase TRIM56
Q8NEG5	0,00015	21,7	ZSWIM2	E3 ubiquitin-protein ligase ZSWIM2
Q5M7Z0	0,00016	21,6	RNFT1	E3 ubiquitin-protein ligase RNFT1
Q9UBF6	0,00017	21,5	RNF7	RING-box protein 2
Q8N3P4	0,00019	21,4	VPS8	Vacuolar protein sorting-associated protein 8 homolog
Q96EP1	0,0002	21,3	CHFR	E3 ubiquitin-protein ligase CHFR
A0A1B0GVX0	0,00022	21,2	LOC101929989	Uncharacterized protein
Q1L5Z9	0,00023	21,1	LONRF2	LON peptidase N-terminal domain and RING finger protein 2
Q9H4P4	0,0003	20,7	RNF41	E3 ubiquitin-protein ligase NRDP1
Q8WVD5	0,00049	20	RNF141	RING finger protein 141
Q8N448	0,0005	20	LNK2	Ligand of Numb protein X 2
Q9UPQ7	0,00054	19,9	PDZRN3	E3 ubiquitin-protein ligase PDZRN3
Q9C040	0,00082	19,3	TRIM2	Tripartite motif-containing protein 2
Q86Y01	0,00086	19,2	DTX1	E3 ubiquitin-protein ligase DTX1
Q9NS91	0,001	19	RAD18	E3 ubiquitin-protein ligase RAD18

Appendix Table S4 - related to Figure 2: Comparative quantitative analysis of protein turnover in *pep4* Δ and *tul1* Δ ,*pep4* Δ cells

marked in bold are predicted membrane transmembrane proteins with $[H/L(tul1\Delta, pep4\Delta) / H/L(pep4\Delta)] > 2$

(PEP4* = non-functional N-terminal fragment of Pep4 comprising amino acids 1-137 that is expressed from the the *PEP4* locus in *pep4* Δ strains made as described in Ammerer et al. 1986.)

Accession	Protein	<i>tul1</i> Δ <i>pep4</i> Δ Abundance (H/L)	<i>pep4</i> Δ Abundance (H/L)	$[H/L(tul1\Delta, pep4\Delta)]$ / $[H/L(pep4\Delta)]$	<i>tul1</i> Δ <i>pep4</i> Δ abundances count (light)	<i>pep4</i> Δ abundances count (light)	<i>tul1</i> Δ <i>pep4</i> Δ abundances count (heavy)	<i>pep4</i> Δ abundances count (heavy)
YCR020W-B	HTL1	0,984	0,01	98,400	1	1	1	0
YLR419W	YLR419W	0,959	0,01	95,900	4	1	4	0
YDR181C	SAS4	0,958	0,01	95,800	1	1	1	0
YPR113W	PIS1	0,936	0,01	93,600	3	1	3	0
YPL045W	VPS16	0,934	0,01	93,400	1	1	1	0
YOR093C	YOR093C	0,923	0,01	92,300	1	1	1	0
YBL066C	SEF1	0,898	0,01	89,800	4	1	3	0
YDL240W	LRG1	0,855	0,01	85,500	3	2	3	0
YLR018C	POM34	0,854	0,01	85,400	4	1	3	0
YIL156W	UBP7	0,852	0,01	85,200	1	1	1	0
YLR020C	YEH2	0,847	0,01	84,700	2	1	2	0
YGR171C	MSM1	0,841	0,01	84,100	1	1	1	0
YMR060C	SAM37	0,84	0,01	84,000	1	1	1	0
YMR275C	BUL1	0,827	0,01	82,700	3	1	3	0
YMR162C	DNF3	0,818	0,01	81,800	4	2	5	0
YPR128C	ANT1	0,809	0,01	80,900	2	2	2	0
YJL134W	LCB3	0,801	0,01	80,100	3	1	3	0
YOL081W	IRA2	0,795	0,01	79,500	1	1	1	0
YHR154W	RTT107	0,794	0,01	79,400	6	2	6	0
YIL079C	AIR1	0,782	0,01	78,200	1	2	1	0
YOR274W	MOD5	0,775	0,01	77,500	4	2	3	0
YBR264C	YPT10	0,769	0,01	76,900	1	1	1	0
YLR205C	HMX1	0,756	0,01	75,600	2	1	3	0
YPL227C	ALG5	0,751	0,01	75,100	2	1	2	0
YOR054C	VHS3	0,74	0,01	74,000	2	1	2	0
YKR010C	TOF2	0,736	0,01	73,600	4	2	4	0
YGL080W	FMP37	0,73	0,01	73,000	5	1	5	0
YLR350W	ORM2	0,729	0,01	72,900	4	2	4	0
YJR140C	HIR3	0,708	0,01	70,800	2	1	2	0
YNL065W	AQR1	0,708	0,01	70,800	2	1	2	0
YNL236W	SIN4	0,677	0,01	67,700	2	1	2	0
YHR172W	SPC97	0,666	0,01	66,600	4	2	4	0

YNL234W	YNL234W	0,663	0,01	66,300	2	1	2	0
YCR037C	PHO87	0,635	0,01	63,500	2	1	2	0
YBL093C	ROX3	0,626	0,01	62,600	1	1	1	0
YOR307C	SLY41	0,615	0,01	61,500	2	1	2	0
YHR082C	KSP1	0,601	0,01	60,100	3	2	4	0
YMR071C	TVP18	0,577	0,01	57,700	1	1	1	0
YGR281W	YOR1	0,562	0,01	56,200	2	1	2	0
YGR133W	PEX4	0,503	0,01	50,300	1	1	1	0
YHR165C	PRP8	0,456	0,01	45,600	2	1	2	0
YDR326C	YSP2	0,439	0,01	43,900	2	1	2	0
YDL104C	QRI7	0,432	0,01	43,200	2	1	1	0
YOR035C	SHE4	0,414	0,01	41,400	2	1	3	0
YDR208W	MSS4	0,384	0,01	38,400	3	1	2	0
YIL144W	TID3	0,895	0,025	35,800	3	1	3	1
YLR056W	ERG3	0,291	0,01	29,100	1	1	1	0
YML091C	RPM2	0,278	0,01	27,800	2	1	2	0
YLR066W	SPC3	0,851	0,111	7,667	5	1	5	4
YOR188W	MSB1	0,667	0,088	7,580	7	1	5	3
YPL112C	PEX25	0,851	0,152	5,599	1	1	1	2
YCL032W	STE50	0,652	0,117	5,573	1	1	2	1
YBR230C	OM14	0,889	0,168	5,292	5	2	5	2
YPL221W	FLC1	0,746	0,148	5,041	5	2	5	1
YJR043C	POL32	0,973	0,259	3,757	1	1	2	2
YER145C	FTR1	0,702	0,195	3,600	2	1	3	2
YDR470C	UGO1	0,484	0,147	3,293	2	2	2	2
YDL012C	YDL012C	0,714	0,217	3,290	2	1	2	2
YDR093W	DNF2	0,986	0,327	3,015	3	1	3	2
YJL062W-A	COA3	1	0,333	3,003	4	2	3	2
YGR296W	YRF1-3	0,754	0,261	2,889	7	4	4	3
YGR283C	YGR283C	0,812	0,285	2,849	4	2	4	2
YOR016C	ERP4	0,938	0,331	2,834	5	4	4	4
YDL030W	PRP9	0,982	0,352	2,790	1	2	1	1
YOR278W	HEM4	0,933	0,356	2,621	2	2	1	2
YGL160W	AIM14	0,903	0,349	2,587	6	3	6	3
YIL048W	NEO1	0,918	0,383	2,397	5	3	5	2
YGL029W	CGR1	0,853	0,365	2,337	6	2	5	4
YGR198W	YPP1	0,848	0,376	2,255	3	2	3	1
YAL026C	DRS2	0,974	0,434	2,244	5	1	4	3
YDR283C	GCN2	0,847	0,38	2,229	2	1	2	2

YPR036W-A	YPR036W-A	0,143	0,068	2,103	1	1	1	2
YBL046W	PSY4	0,807	0,386	2,091	1	1	1	2
YDL193W	NUS1	0,946	0,455	2,079	4	1	3	2
YDR415C	YDR415C	0,925	0,447	2,069	1	1	1	2
YCL049C	YCL049C	0,79	0,386	2,047	1	3	1	3
YMR305C	SCW10	0,735	0,368	1,997	8	13	8	13
YGL257C	MNT2	0,904	0,46	1,965	1	1	1	1
YPR101W	SNT309	0,657	0,335	1,961	1	1	1	1
YBL037W	APL3	0,985	0,537	1,834	1	2	3	2
YPL135W	ISU1	0,294	0,162	1,815	4	4	3	4
YLL015W	BPT1	0,732	0,41	1,785	5	3	5	2
YHL023C	NPR3	0,676	0,38	1,779	1	1	1	2
YDR475C	JIP4	0,738	0,417	1,770	1	1	3	2
YBR162C	TOS1	0,658	0,373	1,764	5	9	6	10
YDL159W	STE7	0,724	0,413	1,753	2	1	2	2
YLL022C	HIF1	0,889	0,508	1,750	7	6	6	7
YHR207C	SET5	0,97	0,555	1,748	5	7	4	5
YHR122W	YHR122W	0,842	0,486	1,733	3	3	2	3
YKL062W	MSN4	0,515	0,298	1,728	5	8	6	10
YHR023W	MYO1	0,8	0,471	1,699	9	8	12	7
YKL099C	UTP11	0,816	0,483	1,689	11	8	11	9
YDR195W	REF2	0,914	0,55	1,662	3	5	4	5
YKR092C	SRP40	0,786	0,476	1,651	11	5	12	5
YDR512C	EMI1	0,861	0,524	1,643	1	1	1	1
YIL016W	SNL1	0,923	0,565	1,634	3	2	1	2
YKR100C	SKG1	0,98	0,6	1,633	5	5	4	5
YDR371W	CTS2	0,899	0,552	1,629	1	1	1	1
YGR279C	SCW4	0,585	0,36	1,625	16	13	16	11
YML114C	TAF8	0,843	0,531	1,588	3	6	2	7
YDR182W	CDC1	0,865	0,55	1,573	3	1	3	1
YGL252C	RTG2	0,85	0,544	1,563	8	9	7	9
YJL159W	HSP150	0,488	0,315	1,549	4	4	3	3
YJR132W	NMD5	0,788	0,515	1,530	4	2	4	2
YDR162C	NBP2	0,63	0,412	1,529	3	5	3	5
YNL101W	AVT4	0,895	0,588	1,522	2	2	2	2
YCL044C	MGR1	0,92	0,605	1,521	5	2	5	3
YIL127C	RRT14	0,677	0,446	1,518	12	4	9	4
YNL139C	THO2	0,795	0,528	1,506	15	7	17	6
YHR102W	KIC1	0,842	0,562	1,498	2	1	3	1

YCL025C	AGP1	0,818	0,546	1,498	1	1	1	1
YPR025C	CCL1	0,835	0,559	1,494	4	3	4	2
YNL039W	BDP1	0,844	0,566	1,491	5	6	7	7
YJL049W	YJL049W	0,882	0,601	1,468	2	3	5	5
YER001W	MNN1	0,616	0,421	1,463	2	2	2	3
YLR262C	YPT6	0,951	0,65	1,463	4	3	5	3
YKL105C	YKL105C	0,807	0,553	1,459	2	2	2	1
YDR505C	PSP1	0,947	0,653	1,450	3	7	2	7
YER100W	UBC6	0,336	0,233	1,442	1	1	1	1
YNL254C	RTC4	0,797	0,553	1,441	3	1	3	1
YNL192W	CHS1	0,616	0,428	1,439	7	5	5	5
YNL048W	ALG11	0,972	0,677	1,436	6	4	5	3
YHR045W	YHR045W	0,795	0,555	1,432	3	3	3	3
YBR179C	FZO1	0,93	0,651	1,429	9	7	8	8
YNL191W	DUG3	0,641	0,451	1,421	2	1	2	1
YKR036C	CAF4	0,814	0,573	1,421	1	1	1	1
YDR170C	SEC7	0,919	0,649	1,416	10	9	10	10
YLR189C	ATG26	0,89	0,63	1,413	1	1	1	1
YBR108W	AIM3	0,959	0,679	1,412	4	8	4	8
YPR008W	HAA1	0,9	0,64	1,406	5	8	4	8
YER128W	YER128W	0,961	0,688	1,397	3	6	3	5
YMR015C	ERG5	0,356	0,256	1,391	11	5	9	6
YDR096W	GIS1	0,753	0,542	1,389	2	5	1	7
YLR095C	IOC2	0,892	0,644	1,385	5	3	5	4
YJL173C	RFA3	0,632	0,457	1,383	3	4	3	4
YBR102C	EXO84	0,822	0,595	1,382	3	7	5	4
YOR276W	CAF20	0,83	0,601	1,381	13	16	15	13
YML071C	COG8	0,737	0,534	1,380	5	1	4	3
YNL221C	POP1	0,829	0,601	1,379	1	2	1	2
YHR057C	CPR2	0,631	0,458	1,378	3	3	2	3
YDR457W	TOM1	0,91	0,666	1,366	7	2	6	4
YPL074W	YTA6	0,78	0,571	1,366	2	1	3	3
YJL158C	CIS3	0,867	0,635	1,365	7	3	7	4
YNL261W	ORC5	0,804	0,589	1,365	1	1	1	1
YKR018C	YKR018C	0,954	0,701	1,361	2	8	2	6
YJR033C	RAV1	0,996	0,736	1,353	2	2	1	1
YFR031C	SMC2	0,962	0,715	1,345	5	5	4	2
YBR123C	TFC1	0,871	0,649	1,342	3	3	3	2
YHR206W	SKN7	0,818	0,61	1,341	6	8	4	8

YGR295C	COS6	0,806	0,603	1,337
YBR170C	NPL4	0,958	0,717	1,336
YBL085W	BOI1	0,998	0,747	1,336
YLR378C	SEC61	0,922	0,691	1,334
YBL004W	UTP20	0,753	0,565	1,333
YMR233W	TRI1	0,794	0,596	1,332
YMR054W	STV1	0,846	0,637	1,328
YDL045W-A	MRP10	0,815	0,614	1,327
YNL288W	CAF40	0,889	0,67	1,327
YDR310C	SUM1	0,969	0,733	1,322
YER088C	DOT6	0,633	0,479	1,322
YOL060C	MAM3	0,652	0,494	1,320
YDR449C	UTP6	0,958	0,727	1,318
YMR295C	YMR295C	0,767	0,583	1,316
YMR255W	GFD1	0,588	0,449	1,310
YER083C	GET2	0,839	0,641	1,309
YMR076C	PDS5	0,824	0,63	1,308
YJL052W	TDH1	0,931	0,712	1,308
YIL123W	SIM1	0,546	0,418	1,306
YOL141W	PPM2	0,859	0,658	1,305
YKL096W	CWP1	0,305	0,234	1,303
YDR464W	SPP41	0,592	0,455	1,301
YLR356W	ATG33	0,761	0,586	1,299
YPL053C	KTR6	0,659	0,508	1,297
YKR093W	PTR2	0,557	0,43	1,295
YBL023C	MCM2	0,955	0,738	1,294
YDR270W	CCC2	0,674	0,521	1,294
YPR155C	NCA2	0,793	0,614	1,292
YKL186C	MTR2	0,295	0,23	1,283
YLR209C	PNP1	0,974	0,761	1,280
YEL018W	EAF5	0,888	0,697	1,274
YBR188C	NTC20	0,754	0,592	1,274
YMR294W	JNM1	0,801	0,629	1,273
YBR283C	SSH1	0,78	0,616	1,266
YDR097C	MSH6	0,769	0,609	1,263
YDR055W	PST1	0,468	0,371	1,261
YBR244W	GPX2	0,96	0,762	1,260
YMR272C	SCS7	0,559	0,444	1,259
YBR242W	YBR242W	0,706	0,561	1,258

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5	3	6	4
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7	3	8	4
6	5	8	6

YER155C	BEM2	0,848	0,675	1,256	14	10	14	9
YDR017C	KCS1	0,861	0,688	1,251	4	8	5	6
YHR161C	YAP1801	0,986	0,789	1,250	5	3	5	5
YNL186W	UBP10	0,768	0,615	1,249	10	14	9	14
YNL049C	SFB2	0,92	0,737	1,248	4	1	5	1
YHR205W	SCH9	0,925	0,743	1,245	9	8	8	7
YDR398W	UTP5	0,773	0,621	1,245	3	5	3	5
YML100W	TSL1	0,954	0,767	1,244	12	12	11	12
YBR069C	TAT1	0,675	0,543	1,243	5	5	5	6
YAL053W	FLC2	0,751	0,605	1,241	4	5	3	5
YPR189W	SKI3	0,882	0,711	1,241	13	11	10	9
YDR392W	SPT3	0,887	0,716	1,239	1	2	1	2
YPL082C	MOT1	0,875	0,707	1,238	6	4	6	2
YLR068W	FYV7	0,788	0,637	1,237	6	7	7	8
YMR148W	OSW5	0,912	0,739	1,234	4	2	3	2
YML115C	VAN1	0,721	0,585	1,232	3	2	2	3
YKR042W	UTH1	0,487	0,396	1,230	16	11	18	9
YOR138C	RUP1	0,768	0,625	1,229	4	3	4	4
YNL253W	TEX1	0,806	0,656	1,229	3	1	4	1
YDR016C	DAD1	0,828	0,674	1,228	1	1	1	1
YER172C	BRR2	0,874	0,712	1,228	5	5	7	6
YIR022W	SEC11	0,877	0,715	1,227	4	2	3	1
YMR296C	LCB1	0,909	0,742	1,225	10	11	10	8
YCR086W	CSM1	0,795	0,649	1,225	1	3	1	3
YDR476C	YDR476C	0,932	0,763	1,221	5	4	4	4
YNL084C	END3	0,968	0,793	1,221	14	14	13	14
YML128C	MSC1	0,936	0,768	1,219	12	17	13	21
YPL031C	PHO85	0,807	0,663	1,217	5	7	5	8
YJL165C	HAL5	0,872	0,717	1,216	4	5	4	5
YNL021W	HDA1	0,701	0,577	1,215	1	1	1	1
YJR133W	XPT1	0,99	0,815	1,215	7	12	5	12
YNL163C	RIA1	0,816	0,672	1,214	16	13	17	9
YMR208W	ERG12	1	0,825	1,212	7	6	8	7
YDR232W	HEM1	0,659	0,544	1,211	16	22	16	18
YIL104C	SHQ1	0,643	0,532	1,209	3	2	4	3
YPR154W	PIN3	0,674	0,558	1,208	2	6	1	6
YDR477W	SNF1	0,916	0,76	1,205	14	15	14	16
YJL183W	MNN11	0,854	0,71	1,203	9	6	7	6
YNR010W	CSE2	0,891	0,741	1,202	3	5	4	6

YPL032C	SVL3	0,93	0,774	1,202	14	8	14	11
YIL035C	CKA1	0,903	0,752	1,201	6	5	5	5
YKL173W	SNU114	0,85	0,709	1,199	6	4	8	5
YER105C	NUP157	0,892	0,746	1,196	6	8	7	5
YKL156W	RPS27A	0,798	0,669	1,193	46	29	47	28
YFR006W	YFR006W	0,91	0,764	1,191	8	12	8	14
YKL007W	CAP1	0,944	0,793	1,190	12	14	11	14
YER131W	RPS26B	0,983	0,826	1,190	6	4	6	3
YDR089W	YDR089W	0,39	0,328	1,189	3	3	4	3
YHR171W	ATG7	0,831	0,699	1,189	1	1	1	1
YOR164C	GET4	0,923	0,777	1,188	7	10	8	10
YOR270C	VPH1	0,898	0,756	1,188	19	13	19	13
YBR029C	CDS1	0,863	0,727	1,187	2	3	2	3
YOR370C	MRS6	0,838	0,706	1,187	8	5	5	6
YDL117W	CYK3	0,91	0,767	1,186	3	1	4	2
YDR330W	UBX5	0,905	0,763	1,186	2	6	4	6
YHL002W	HSE1	0,687	0,58	1,184	4	5	5	4
YAL001C	TFC3	0,84	0,71	1,183	2	2	2	2
YBR281C	DUG2	0,711	0,601	1,183	6	1	6	3
YEL050C	RML2	0,546	0,462	1,182	1	4	2	4
YOL087C	YOL087C	0,839	0,71	1,182	2	5	3	4
YJR088C	EMC2	0,937	0,793	1,182	7	4	5	3
YAL032C	PRP45	0,827	0,7	1,181	5	6	5	7
YOL045W	PSK2	0,65	0,551	1,180	3	2	3	2
YDL015C	TSC13	0,913	0,774	1,180	5	3	6	4
YBR202W	MCM7	0,309	0,262	1,179	5	4	6	3
YNL321W	VNX1	0,855	0,725	1,179	5	2	6	4
YOR124C	UBP2	0,934	0,792	1,179	5	3	5	2
YOR126C	IAH1	0,999	0,848	1,178	8	8	7	10
YOL148C	SPT20	0,95	0,807	1,177	3	2	1	2
YNR024W	MPP6	0,771	0,655	1,177	5	2	5	2
YEL011W	GLC3	0,76	0,646	1,176	1	1	1	1
YMR061W	RNA14	0,923	0,785	1,176	7	6	9	6
YKR046C	PET10	0,823	0,701	1,174	33	23	31	26
YFL004W	VTC2	0,938	0,799	1,174	19	16	19	15
YER111C	SWI4	0,732	0,624	1,173	8	3	6	3
YGR274C	TAF1	0,888	0,757	1,173	3	6	1	7
YBR081C	SPT7	0,922	0,786	1,173	3	7	3	5
YIR008C	PRI1	0,955	0,816	1,170	10	11	7	10

YNL307C	MCK1	0,949	0,811	1,170	19	24	18	24
YJR099W	YUH1	0,594	0,508	1,169	1	5	1	4
YOR251C	TUM1	0,919	0,786	1,169	10	16	13	15
YOL006C	TOP1	0,865	0,74	1,169	8	10	9	9
YGR215W	RSM27	0,803	0,688	1,167	4	6	4	5
YPL154C	PEP4*	0,126	0,108	1,167	2	4	2	4
YLR439W	MRPL4	0,992	0,851	1,166	4	4	3	4
YLR167W	RPS31	0,811	0,696	1,165	47	35	45	35
YMR250W	GAD1	0,969	0,832	1,165	6	8	3	8
YJR103W	URA8	0,941	0,809	1,163	3	5	3	5
YLL010C	PSR1	0,607	0,522	1,163	3	1	2	1
YER169W	RPH1	0,796	0,685	1,162	3	5	6	5
YPL125W	KAP120	0,864	0,744	1,161	6	2	6	4
YMR196W	YMR196W	0,7	0,603	1,161	3	2	3	2
YPR133C	SPN1	0,96	0,827	1,161	20	25	21	24
YOL009C	MDM12	0,297	0,256	1,160	1	1	1	1
YDL110C	TMA17	0,682	0,588	1,160	8	12	9	11
YMR237W	BCH1	0,871	0,752	1,158	9	5	9	5
YDR031W	MIC14	0,952	0,822	1,158	2	4	3	4
YIL155C	GUT2	0,814	0,703	1,158	12	20	15	22
YER095W	RAD51	0,785	0,678	1,158	5	3	5	3
YLL013C	PUF3	0,964	0,833	1,157	10	14	10	13
YGL210W	YPT32	0,839	0,726	1,156	4	3	5	4
YBR192W	RIM2	0,895	0,775	1,155	6	3	4	3
YOR210W	RPB10	0,978	0,848	1,153	11	14	12	12
YEL007W	YEL007W	0,718	0,623	1,152	3	6	4	5
YKL215C	OXF1	0,932	0,809	1,152	4	5	4	3
YOL008W	COQ10	0,821	0,713	1,151	1	1	1	1
YGR125W	YGR125W	0,905	0,786	1,151	4	1	3	1
YKR003W	OSH6	0,961	0,835	1,151	13	8	11	7
YPR188C	MLC2	0,527	0,458	1,151	6	12	4	11
YGR245C	SDA1	0,785	0,683	1,149	14	13	14	13
YDR141C	DOP1	0,958	0,834	1,149	6	3	5	4
YOL111C	MDY2	0,992	0,864	1,148	11	16	9	16
YOR360C	PDE2	0,863	0,752	1,148	1	1	1	1
YNL284C	MRPL10	0,728	0,635	1,146	22	23	19	21
YLR133W	CKI1	0,892	0,779	1,145	8	8	8	7
YPR133W-A	TOM5	0,9	0,786	1,145	4	3	4	3
YHR137W	ARO9	0,94	0,821	1,145	13	16	13	17

YER047C	SAP1	0,902	0,788	1,145	11	7	8	8
YFL041W	FET5	0,728	0,636	1,145	8	10	7	10
YNR017W	TIM23	0,949	0,83	1,143	9	12	8	10
YNL330C	RPD3	0,702	0,614	1,143	7	12	8	10
YDR192C	NUP42	0,798	0,698	1,143	2	4	2	4
YJL076W	NET1	0,847	0,741	1,143	36	34	34	31
YLR373C	VID22	0,882	0,772	1,142	3	3	4	3
YKR037C	SPC34	0,754	0,66	1,142	2	4	2	4
YDR407C	TRS120	0,827	0,724	1,142	1	2	1	2
YDR497C	ITR1	0,444	0,389	1,141	11	7	11	5
YKL074C	MUD2	0,854	0,749	1,140	4	4	3	3
YAL025C	MAK16	0,816	0,716	1,140	2	5	2	5
YPL086C	ELP3	0,906	0,795	1,140	14	12	13	16
YNL323W	LEM3	0,874	0,767	1,140	3	3	2	3
YER072W	VTC1	0,829	0,728	1,139	2	3	2	2
YOL034W	SMC5	0,905	0,796	1,137	4	7	5	4
YJR042W	NUP85	0,892	0,785	1,136	3	2	4	2
YBL038W	MRPL16	0,612	0,539	1,135	2	1	2	1
YMR130W	YMR130W	0,984	0,867	1,135	5	3	3	4
YPL195W	APL5	0,751	0,662	1,134	4	5	5	4
YDR481C	PHO8	0,937	0,826	1,134	3	3	3	4
YGR266W	YGR266W	0,846	0,746	1,134	5	6	4	3
YNL219C	ALG9	0,678	0,598	1,134	4	3	3	3
YLR129W	DIP2	0,873	0,77	1,134	12	7	13	6
YNL227C	JJJ1	0,933	0,823	1,134	4	2	4	3
YGL228W	SHE10	0,927	0,818	1,133	8	8	8	11
YJL087C	TRL1	0,976	0,862	1,132	3	5	4	6
YGL019W	CKB1	0,905	0,8	1,131	3	6	5	6
YBR233W-A	DAD3	0,923	0,817	1,130	2	2	2	2
YKL103C	LAP4	0,995	0,881	1,129	7	19	8	18
YML025C	YML6	0,947	0,839	1,129	11	13	9	15
YPL184C	MRN1	0,782	0,693	1,128	6	7	5	8
YGL221C	NIF3	0,972	0,862	1,128	11	13	8	11
YGL115W	SNF4	0,993	0,881	1,127	7	8	4	9
YOR197W	MCA1	0,994	0,882	1,127	14	18	12	18
YIL106W	MOB1	0,888	0,788	1,127	6	8	6	8
YHR190W	ERG9	0,962	0,854	1,126	13	10	12	8
YBR279W	PAF1	0,981	0,871	1,126	12	25	14	25
YLR410W	VIP1	0,904	0,803	1,126	17	23	18	25

YOR275C	RIM20	0,761	0,676	1,126
YGL151W	NUT1	0,896	0,796	1,126
YIL103W	DPH1	0,744	0,661	1,126
YBR059C	AKL1	0,996	0,885	1,125
YPR019W	MCM4	0,942	0,838	1,124
YER087W	AIM10	0,97	0,863	1,124
YMR197C	VTI1	0,781	0,695	1,124
YBL032W	HEK2	0,857	0,763	1,123
YKR068C	BET3	0,767	0,683	1,123
YCR051W	YCR051W	0,877	0,781	1,123
YNL312W	RFA2	0,8	0,713	1,122
YJL061W	NUP82	0,922	0,822	1,122
YOL053W	AIM39	0,897	0,8	1,121
YMR105C	PGM2	0,835	0,745	1,121
YNR026C	SEC12	0,875	0,781	1,120
YKL154W	SRP102	0,89	0,795	1,119
YMR165C	PAH1	0,817	0,73	1,119
YDR493W	MZM1	0,876	0,783	1,119
YJL174W	KRE9	0,859	0,768	1,118
YOR101W	RAS1	0,963	0,861	1,118
YOR340C	RPA43	0,921	0,824	1,118
YDR211W	GCD6	0,922	0,825	1,118
YBR086C	IST2	0,879	0,787	1,117
YBL033C	RIB1	0,786	0,704	1,116
YDR328C	SKP1	0,915	0,82	1,116
YCL057C-A	YCL057C-A	0,93	0,834	1,115
YNL004W	HRB1	0,951	0,853	1,115
YGL141W	HUL5	0,713	0,64	1,114
YPL030W	TRM44	0,894	0,803	1,113
YMR230W	RPS10B	0,887	0,797	1,113
YGR163W	GTR2	0,912	0,82	1,112
YBR160W	CDC28	0,919	0,827	1,111
YLR268W	SEC22	0,812	0,731	1,111
YIL117C	PRM5	0,355	0,32	1,109
YOR327C	SNC2	0,764	0,689	1,109
YBL051C	PIN4	0,877	0,791	1,109
YLR438C-A	LSM3	0,961	0,867	1,108
YLR181C	VTA1	0,983	0,887	1,108
YLR347C	KAP95	0,8	0,722	1,108

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5	5	4	4
15	11	17	11

YDR436W	PPZ2	0,946	0,854	1,108	2	1	2	1
YLR178C	TFS1	0,998	0,901	1,108	11	14	9	13
YAL021C	CCR4	0,929	0,839	1,107	9	14	10	15
YOR290C	SNF2	0,961	0,868	1,107	5	6	4	5
YKR002W	PAP1	0,87	0,786	1,107	3	4	3	4
YDR519W	FPR2	0,86	0,777	1,107	7	11	6	11
YAL060W	BDH1	0,985	0,89	1,107	15	22	12	20
YGL174W	BUD13	0,841	0,76	1,107	2	6	2	6
YGR100W	MDR1	0,728	0,658	1,106	3	2	3	2
YMR202W	ERG2	0,605	0,547	1,106	2	2	2	2
YHR001W-A	QCR10	0,544	0,492	1,106	2	4	4	5
YCR084C	TUP1	0,953	0,862	1,106	21	26	23	27
YML108W	YML108W	0,988	0,894	1,105	2	4	2	4
YHR106W	TRR2	0,873	0,79	1,105	2	4	2	3
YOR155C	ISN1	0,906	0,82	1,105	2	9	2	9
YNR006W	VPS27	0,799	0,724	1,104	7	12	7	10
YML032C	RAD52	0,74	0,671	1,103	7	6	6	5
YGR090W	UTP22	0,859	0,779	1,103	28	18	26	19
YJR059W	PTK2	0,776	0,704	1,102	7	10	8	8
YDR354W	TRP4	0,921	0,836	1,102	6	9	4	10
YDL165W	CDC36	0,995	0,904	1,101	2	5	3	5
YGR191W	HIP1	0,747	0,679	1,100	2	2	3	2
YLL032C	YLL032C	0,892	0,811	1,100	4	1	3	1
YMR047C	NUP116	0,917	0,834	1,100	13	19	16	19
YBL090W	MRP21	0,999	0,909	1,099	12	9	9	13
YOR157C	PUP1	0,905	0,824	1,098	12	8	8	10
YOL142W	RRP40	0,936	0,853	1,097	4	3	5	3
YKR081C	RPF2	0,959	0,874	1,097	21	13	16	13
YNL180C	RHO5	0,886	0,808	1,097	8	7	7	6
YPR051W	MAK3	0,625	0,57	1,096	4	6	5	5
YFL023W	BUD27	0,968	0,883	1,096	13	19	12	21
YDR261C-D	YDR261C-D	0,24	0,219	1,096	1	2	2	2
YGR005C	TFG2	0,917	0,837	1,096	3	6	3	6
YER004W	FMP52	1	0,913	1,095	10	17	12	14
YDR363W-A	SEM1	0,851	0,777	1,095	6	4	6	4
YDR169C	STB3	0,721	0,659	1,094	8	8	6	9
YPL117C	IDI1	0,943	0,862	1,094	13	24	15	22
YMR129W	POM152	0,84	0,768	1,094	14	15	12	13
YHL031C	GOS1	0,902	0,825	1,093	3	4	3	4

YMR266W	RSN1	0,705	0,645	1,093	7	4	8	3
YDR311W	TFB1	0,941	0,861	1,093	1	9	2	9
YBR003W	COQ1	0,944	0,864	1,093	8	20	12	20
YKL067W	YNK1	0,956	0,875	1,093	16	14	16	14
YGL087C	MMS2	0,945	0,865	1,092	4	8	6	6
YHR198C	AIM18	0,975	0,893	1,092	7	7	7	7
YMR302C	YME2	0,943	0,864	1,091	17	15	13	11
YDR084C	TVP23	0,876	0,803	1,091	1	1	2	1
YPL001W	HAT1	0,975	0,894	1,091	7	8	8	10
YPL228W	CET1	0,89	0,818	1,088	14	23	15	22
YDR346C	SVF1	0,943	0,867	1,088	20	23	13	26
YMR109W	MYO5	0,934	0,859	1,087	18	21	16	18
YLR260W	LCB5	0,99	0,911	1,087	2	1	1	1
YLR396C	VPS33	0,815	0,75	1,087	3	2	4	2
YER022W	SRB4	0,96	0,884	1,086	5	6	6	6
YGR048W	UFD1	0,739	0,681	1,085	5	5	5	5
YKR026C	GCN3	0,957	0,882	1,085	9	11	9	10
YOR127W	RGA1	0,741	0,683	1,085	4	6	3	6
YMR124W	YMR124W	0,856	0,789	1,085	9	10	12	12
YJL153C	INO1	0,899	0,829	1,084	34	29	32	27
YHR046C	INM1	0,928	0,856	1,084	8	8	7	8
YJL098W	SAP185	0,759	0,701	1,083	5	6	4	7
YGR049W	SCM4	0,826	0,763	1,083	2	2	2	3
YDR348C	YDR348C	0,842	0,778	1,082	8	13	8	13
YGR116W	SPT6	0,909	0,84	1,082	26	34	31	36
YBL028C	YBL028C	0,489	0,452	1,082	9	8	7	6
YGL167C	PMR1	0,836	0,773	1,082	6	9	7	9
YMR192W	GYL1	0,834	0,772	1,080	1	4	1	4
YLR185W	RPL37A	0,929	0,86	1,080	44	28	43	35
YDL064W	UBC9	0,952	0,882	1,079	4	9	5	8
YHR143W-A	RPC10	0,885	0,82	1,079	15	7	14	7
YCR004C	YCP4	0,845	0,783	1,079	25	14	25	11
YNL327W	EGT2	0,355	0,329	1,079	2	3	1	3
YPR052C	NHP6A	0,865	0,802	1,079	15	8	14	8
YHR111W	UBA4	0,838	0,777	1,079	3	3	2	5
YDR214W	AHA1	0,968	0,898	1,078	20	31	17	28
YBL047C	EDE1	0,933	0,866	1,077	62	70	52	73
YNL088W	TOP2	0,783	0,727	1,077	9	8	7	7
YPL235W	RVB2	0,926	0,86	1,077	30	29	24	30

YDL144C	YDL144C	0,814	0,756	1,077
YOR217W	RFC1	0,829	0,77	1,077
YLR132C	YLR132C	0,873	0,811	1,076
YHR021C	RPS27B	0,848	0,788	1,076
YML009C	MRPL39	0,472	0,439	1,075
YOR065W	CYT1	0,944	0,878	1,075
YEL060C	PRB1	0,873	0,812	1,075
YPL037C	EGD1	0,904	0,841	1,075
YDL053C	PBP4	0,848	0,789	1,075
YMR220W	ERG8	0,951	0,885	1,075
YPL013C	MRPS16	0,982	0,914	1,074
YBR103W	SIF2	0,889	0,828	1,074
YNR023W	SNF12	0,936	0,872	1,073
YPL094C	SEC62	0,937	0,873	1,073
YDR248C	YDR248C	0,974	0,908	1,073
YPL128C	TBF1	0,949	0,885	1,072
YMR058W	FET3	0,729	0,68	1,072
YJR118C	ILM1	0,804	0,75	1,072
YGL091C	NBP35	0,836	0,78	1,072
YGR229C	SMI1	0,837	0,781	1,072
YKR060W	UTP30	0,914	0,853	1,072
YDR068W	DOS2	0,886	0,827	1,071
YBR085C-A	YBR085C-A	0,497	0,464	1,071
YDR381C-A	YDR381C-A	0,756	0,706	1,071
YLR351C	NIT3	0,938	0,876	1,071
YOR254C	SEC63	0,915	0,855	1,070
YMR178W	YMR178W	0,905	0,846	1,070
YMR228W	MTF1	0,798	0,746	1,070
YEL047C	YEL047C	0,8	0,748	1,070
YML125C	PGA3	0,988	0,924	1,069
YOR153W	PDR5	0,79	0,739	1,069
YGL137W	SEC27	0,883	0,826	1,069
YDL205C	HEM3	0,976	0,913	1,069
YBR016W	YBR016W	0,855	0,8	1,069
YBL075C	SSA3	0,902	0,844	1,069
YLR257W	YLR257W	0,731	0,684	1,069
YOR288C	MPD1	0,949	0,888	1,069
YGL041W-A	YGL041W-A	0,711	0,666	1,068
YDR168W	CDC37	0,901	0,844	1,068

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YHR099W	TRA1	0,822	0,77	1,068
YOL102C	TPT1	0,922	0,864	1,067
YFR024C-A	LSB3	0,845	0,792	1,067
YJL123C	MTC1	0,975	0,914	1,067
YJL145W	SFH5	0,975	0,914	1,067
YOR280C	FSH3	0,897	0,841	1,067
YLR342W	FKS1	0,773	0,725	1,066
YOR362C	PRE10	0,953	0,894	1,066
YGR267C	FOL2	0,94	0,882	1,066
YNL297C	MON2	0,876	0,822	1,066
YDR289C	RTT103	0,879	0,825	1,065
YML069W	POB3	0,962	0,903	1,065
YDR033W	MRH1	0,855	0,803	1,065
YKR084C	HBS1	0,939	0,882	1,065
YMR183C	SSO2	0,928	0,872	1,064
YER080W	AIM9	0,915	0,86	1,064
YBR151W	APD1	0,958	0,901	1,063
YMR301C	ATM1	0,859	0,808	1,063
YEL017W	GTT3	0,963	0,906	1,063
YNL264C	PDR17	0,886	0,834	1,062
YFR011C	AIM13	0,756	0,712	1,062
YPL050C	MNN9	0,985	0,928	1,061
YNL287W	SEC21	0,883	0,832	1,061
YLR077W	FMP25	0,711	0,67	1,061
YMR261C	TPS3	0,972	0,916	1,061
YPR028W	YOP1	0,854	0,805	1,061
YPR148C	YPR148C	0,978	0,922	1,061
YDL189W	RBS1	0,77	0,726	1,061
YMR298W	LIP1	0,861	0,812	1,060
YPL273W	SAM4	0,861	0,812	1,060
YNL290W	RFC3	0,865	0,816	1,060
YML001W	YPT7	0,8	0,755	1,060
YDR155C	CPR1	0,947	0,894	1,059
YGR001C	YGR001C	0,834	0,788	1,058
YDR032C	PST2	0,93	0,879	1,058
YPL085W	SEC16	0,899	0,85	1,058
YOR112W	CEX1	0,844	0,798	1,058
YGL200C	EMP24	0,865	0,818	1,057
YDL052C	SLC1	0,928	0,878	1,057

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YMR075W	RCO1	0,951	0,9	1,057	7	14	5	8
YBR009C	HHF1	0,934	0,884	1,057	19	16	14	16
YOR253W	NAT5	0,863	0,817	1,056	10	14	11	18
YBR142W	MAK5	0,883	0,836	1,056	23	18	21	19
YLR370C	ARC18	0,849	0,804	1,056	9	12	9	11
YDR358W	GGA1	0,837	0,793	1,055	7	6	7	7
YMR315W	YMR315W	0,992	0,94	1,055	29	30	30	31
YPL243W	SRP68	0,86	0,815	1,055	26	18	27	17
YOR119C	RIO1	0,69	0,654	1,055	2	4	1	6
YPL266W	DIM1	0,892	0,846	1,054	8	10	6	10
YLR100W	ERG27	0,897	0,851	1,054	6	9	5	7
YNR029C	YNR029C	0,997	0,946	1,054	4	8	6	9
YDR300C	PRO1	0,943	0,895	1,054	12	17	13	15
YOR089C	VPS21	0,689	0,654	1,054	6	5	6	4
YCL014W	BUD3	0,868	0,824	1,053	12	10	10	10
YFR037C	RSC8	0,891	0,846	1,053	22	31	22	34
YJL171C	YJL171C	0,955	0,907	1,053	6	4	5	4
YJL112W	MDV1	0,784	0,745	1,052	9	7	8	9
YKR070W	YKR070W	0,929	0,883	1,052	3	2	2	2
YML057W	CMP2	0,912	0,867	1,052	18	16	17	15
YNL277W	MET2	0,49	0,466	1,052	9	13	10	12
YBR126C	TPS1	0,942	0,896	1,051	19	17	18	18
YDR001C	NTH1	0,786	0,748	1,051	10	12	8	13
YER177W	BMH1	0,911	0,867	1,051	50	51	49	51
YGL119W	COQ8	0,896	0,853	1,050	4	5	3	4
YDR518W	EUG1	0,86	0,819	1,050	10	13	8	12
YMR024W	MRPL3	0,987	0,94	1,050	16	13	17	16
YLR186W	EMG1	0,93	0,886	1,050	14	22	15	20
YPL232W	SSO1	0,851	0,811	1,049	15	15	14	15
YBR294W	SUL1	0,491	0,468	1,049	12	9	11	7
YLR412W	BER1	0,858	0,818	1,049	2	4	2	5
YHR132W-A	IGO2	0,842	0,803	1,049	2	4	3	4
YLR291C	GCD7	0,933	0,89	1,048	6	6	5	7
YEL034W	HYP2	0,934	0,891	1,048	80	75	79	76
YGR076C	MRPL25	0,807	0,77	1,048	14	11	15	11
YLR430W	SEN1	0,774	0,739	1,047	6	5	6	4
YLR262C-A	TMA7	0,885	0,845	1,047	7	10	8	13
YDR062W	LCB2	0,845	0,807	1,047	5	5	5	5
YDR390C	UBA2	0,897	0,857	1,047	8	14	7	14

YDL056W	MBP1	0,785	0,75	1,047
YGR103W	NOP7	0,922	0,881	1,047
YDR483W	KRE2	0,676	0,646	1,046
YDR177W	UBC1	0,924	0,883	1,046
YHR072W	ERG7	0,836	0,799	1,046
YCL057W	PRD1	0,904	0,864	1,046
YOR195W	SLK19	0,453	0,433	1,046
YKL024C	URA6	0,911	0,871	1,046
YHR034C	PIH1	0,937	0,896	1,046
YLR028C	ADE16	0,825	0,789	1,046
YMR086W	YMR086W	0,826	0,79	1,046
YLR398C	SKI2	0,877	0,839	1,045
YHR088W	RPF1	0,739	0,707	1,045
YDL160C	DHH1	0,855	0,818	1,045
YGR111W	YGR111W	0,926	0,886	1,045
YOR272W	YTM1	0,982	0,94	1,045
YMR201C	RAD14	0,889	0,851	1,045
YGR130C	YGR130C	0,759	0,727	1,044
YKL151C	YKL151C	0,997	0,955	1,044
YNL045W	LAP2	0,811	0,777	1,044
YAL036C	RBG1	0,859	0,823	1,044
YDL088C	ASM4	0,914	0,876	1,043
YCR060W	TAH1	0,872	0,836	1,043
YKL179C	COY1	0,899	0,862	1,043
YKL025C	PAN3	0,802	0,769	1,043
YCL028W	RNQ1	0,973	0,933	1,043
YNL079C	TPM1	0,929	0,891	1,043
YDR361C	BCP1	0,834	0,8	1,043
YBR058C	UBP14	0,69	0,662	1,042
YJR085C	YJR085C	0,914	0,877	1,042
YKL112W	ABF1	0,846	0,812	1,042
YGR148C	RPL24B	0,897	0,861	1,042
YPR048W	TAH18	0,899	0,863	1,042
YOR361C	PRT1	0,907	0,871	1,041
YDR430C	CYM1	0,986	0,947	1,041
YDL130W-A	STF1	0,885	0,85	1,041
YGR271C-A	EFG1	0,887	0,852	1,041
YER101C	AST2	0,888	0,853	1,041
YNL005C	MRP7	0,89	0,855	1,041

2	4	3	4
29	31	27	29
6	11	6	11
15	21	13	20
4	4	4	4
22	45	20	46
6	21	5	20
10	14	12	16
7	7	7	11
25	26	26	28
22	27	25	23
21	14	19	15
11	14	13	14
24	32	27	33
3	6	4	6
25	30	23	27
1	2	1	2
59	38	54	38
1	2	2	2
9	20	10	19
21	18	21	17
4	5	5	5
1	3	1	3
12	12	13	10
2	4	2	4
3	8	4	9
20	25	26	23
6	12	9	14
10	14	12	10
1	2	2	2
6	11	6	12
8	7	7	6
7	2	7	5
51	68	47	70
33	37	29	37
7	3	6	4
9	17	8	16
5	6	3	6
12	13	13	14

YBR269C	FMP21	0,612	0,588	1,041	9	11	11	11
YLL021W	SPA2	0,819	0,787	1,041	30	22	31	21
YNL207W	RIO2	0,798	0,767	1,040	5	4	4	4
YBR112C	CYC8	0,78	0,75	1,040	12	22	13	22
YPR187W	RPO26	0,966	0,929	1,040	9	9	10	10
YDR175C	RSM24	0,969	0,932	1,040	8	11	6	11
YBL041W	PRE7	0,923	0,888	1,039	16	19	13	18
YNL298W	CLA4	0,818	0,787	1,039	4	6	4	6
YPL012W	RRP12	0,845	0,813	1,039	24	14	24	15
YGR017W	YGR017W	0,951	0,915	1,039	4	5	4	4
YGL207W	SPT16	0,846	0,814	1,039	40	37	35	34
YHR066W	SSF1	0,9	0,866	1,039	7	6	6	7
YER042W	MXR1	0,857	0,825	1,039	12	19	15	20
YNL059C	ARP5	0,911	0,877	1,039	11	9	13	10
YER012W	PRE1	0,919	0,885	1,038	6	6	6	8
YIL137C	TMA108	0,84	0,809	1,038	9	16	8	15
YKL117W	SBA1	0,961	0,926	1,038	15	10	13	10
YOR211C	MGM1	0,961	0,926	1,038	11	17	14	18
YDL171C	GLT1	0,831	0,801	1,037	58	69	63	66
YCL035C	GRX1	0,888	0,856	1,037	8	9	9	10
YOR132W	VPS17	0,866	0,835	1,037	6	9	4	10
YPL245W	YPL245W	0,783	0,755	1,037	2	3	1	3
YGL105W	ARC1	0,926	0,893	1,037	50	52	53	57
YLR212C	TUB4	0,819	0,79	1,037	1	2	1	2
YNL243W	SLA2	0,848	0,818	1,037	31	19	28	18
YBL069W	AST1	0,851	0,821	1,037	5	7	5	6
YBL026W	LSM2	0,884	0,853	1,036	3	7	3	7
YER019C-A	SBH2	0,856	0,826	1,036	6	6	6	6
YML030W	AIM31	0,799	0,771	1,036	2	2	2	2
YHR027C	RPN1	0,887	0,856	1,036	34	34	30	34
YDR502C	SAM2	0,899	0,868	1,036	76	48	72	47
YNL016W	PUB1	0,913	0,882	1,035	12	11	8	11
YCR090C	YCR090C	0,944	0,912	1,035	2	7	3	7
YGR082W	TOM20	0,829	0,801	1,035	6	6	7	6
YCL043C	PDI1	0,861	0,832	1,035	59	64	58	62
YMR092C	AIP1	0,891	0,861	1,035	13	19	15	20
YHR081W	LRP1	0,892	0,862	1,035	14	11	13	11
YBL003C	HTA2	0,895	0,865	1,035	24	18	26	15
YBR205W	KTR3	0,896	0,866	1,035	2	4	1	4

YDL019C	OSH2	0,812	0,785	1,034	7	13	10	14
YKL128C	PMU1	0,908	0,878	1,034	6	10	7	11
YBL061C	SKT5	0,639	0,618	1,034	7	6	7	8
YMR039C	SUB1	0,917	0,887	1,034	5	14	6	14
YBR162W-A	YSY6	0,766	0,741	1,034	2	2	2	2
YDL058W	USO1	0,92	0,89	1,034	14	15	17	15
YGL092W	NUP145	0,862	0,834	1,034	21	20	20	21
YER120W	SCS2	0,895	0,866	1,033	24	23	26	22
YKL113C	RAD27	0,93	0,9	1,033	11	10	8	9
YIL002W-A	YIL002W-A	0,714	0,691	1,033	6	8	7	8
YIR037W	HYR1	0,933	0,903	1,033	16	21	13	22
YLR147C	SMD3	0,999	0,967	1,033	1	3	1	3
YPR144C	NOC4	0,931	0,902	1,032	10	8	11	10
YKR035W-A	DID2	0,838	0,812	1,032	13	5	11	5
YCL050C	APA1	0,903	0,875	1,032	34	37	31	35
YER154W	OXA1	0,743	0,72	1,032	6	6	5	7
YHR073W	OSH3	0,841	0,815	1,032	13	13	11	12
YPL146C	NOP53	0,907	0,879	1,032	22	16	20	15
YDR074W	TPS2	0,847	0,821	1,032	27	37	32	35
YLR321C	SFH1	0,915	0,887	1,032	2	4	3	4
YDR515W	SLF1	0,854	0,828	1,031	11	13	10	12
YML028W	TSA1	0,92	0,892	1,031	25	22	24	24
YHR084W	STE12	0,628	0,609	1,031	3	5	4	5
YGL037C	PNC1	0,864	0,838	1,031	11	16	10	14
YML050W	AIM32	0,801	0,777	1,031	3	1	3	1
YPL180W	TCO89	0,869	0,843	1,031	4	6	2	6
YNL209W	SSB2	0,84	0,815	1,031	30	22	31	21
YDR320C	SWA2	0,813	0,789	1,030	8	15	9	13
YDR054C	CDC34	0,578	0,561	1,030	1	1	1	1
YDL022W	GPD1	0,864	0,839	1,030	21	23	23	21
YIR004W	DJP1	0,868	0,843	1,030	24	29	20	29
YNL037C	IDH1	0,906	0,88	1,030	38	37	36	38
YGL014W	PUF4	0,84	0,816	1,029	12	18	12	17
YCL031C	RRP7	0,876	0,851	1,029	10	11	7	11
YPR035W	GLN1	0,777	0,755	1,029	23	26	21	23
YNL189W	SRP1	0,885	0,86	1,029	25	20	26	15
YDR490C	PKH1	0,714	0,694	1,029	2	3	2	3
YNL169C	PSD1	0,715	0,695	1,029	7	3	7	4
YJL055W	YJL055W	0,935	0,909	1,029	14	17	12	17

YPL063W	TIM50	0,87	0,846	1,028	22	24	18	23
YML078W	CPR3	0,943	0,917	1,028	30	22	29	28
YML072C	TCB3	0,836	0,813	1,028	45	34	49	35
YLR387C	REH1	0,807	0,785	1,028	12	12	12	12
YNL067W	RPL9B	0,92	0,895	1,028	2	2	2	2
YIR001C	SGN1	0,892	0,868	1,028	8	10	8	10
YCL019W	YCL019W	0,526	0,512	1,027	8	12	8	13
YKL210W	UBA1	0,867	0,844	1,027	53	67	52	69
YGR106C	VOA1	0,381	0,371	1,027	2	5	3	5
YGR132C	PHB1	0,926	0,902	1,027	19	22	19	23
YBR096W	YBR096W	0,854	0,832	1,026	2	2	2	2
YML102W	CAC2	0,896	0,873	1,026	2	5	2	3
YBR146W	MRPS9	0,902	0,879	1,026	16	18	11	16
YLL034C	RIX7	0,944	0,92	1,026	14	16	13	16
YMR072W	ABF2	0,945	0,921	1,026	21	21	21	21
YHR200W	RPN10	0,87	0,848	1,026	8	12	9	12
YML056C	IMD4	0,873	0,851	1,026	19	18	16	15
YLR206W	ENT2	0,841	0,82	1,026	7	10	8	10
YHR098C	SFB3	0,817	0,797	1,025	11	12	12	11
YGL201C	MCM6	0,741	0,723	1,025	8	12	11	14
YEL013W	VAC8	0,827	0,807	1,025	19	12	20	11
YGL107C	RMD9	0,912	0,89	1,025	8	9	11	11
YOR207C	RET1	0,75	0,732	1,025	13	9	14	10
YAL033W	POP5	0,917	0,895	1,025	3	4	1	3
YFR053C	HXK1	0,797	0,778	1,024	37	43	37	41
YMR318C	ADH6	0,897	0,876	1,024	23	39	28	39
YER025W	GCD11	0,857	0,837	1,024	50	56	46	55
YHR001W	OSH7	0,865	0,845	1,024	16	29	14	26
YBL059C-A	CMC2	0,752	0,735	1,023	12	10	12	13
YBL011W	SCT1	0,841	0,822	1,023	3	1	3	1
YOR308C	SNU66	0,851	0,832	1,023	2	3	3	3
YDL040C	NAT1	0,898	0,878	1,023	21	31	20	29
YMR044W	IOC4	0,724	0,708	1,023	1	2	1	2
YKL213C	DOA1	0,819	0,801	1,022	13	14	12	14
YKL201C	MNN4	0,729	0,713	1,022	12	8	10	5
YBR078W	ECM33	0,739	0,723	1,022	28	17	25	17
YIL136W	OM45	0,885	0,866	1,022	22	26	21	26
YDR251W	PAM1	0,801	0,784	1,022	7	11	8	10
YOR151C	RPB2	0,711	0,696	1,022	20	22	19	21

YJL148W	RPA34	0,927	0,908	1,021	11	9	11	11
YLR247C	IRC20	0,586	0,574	1,021	1	1	1	1
YJL167W	ERG20	0,934	0,915	1,021	42	34	48	39
YNL010W	YNL010W	0,892	0,874	1,021	23	35	25	32
YFR001W	LOC1	0,855	0,838	1,020	15	9	15	11
YCR077C	PAT1	0,858	0,841	1,020	17	14	15	13
YDR079C-A	TFB5	0,625	0,613	1,020	1	4	2	5
YHR104W	GRE3	0,945	0,927	1,019	15	25	14	27
YPR161C	SGV1	0,738	0,724	1,019	11	8	11	7
YJR143C	PMT4	0,849	0,833	1,019	9	5	7	5
YML010W	SPT5	0,796	0,781	1,019	30	43	36	46
YNL149C	PGA2	0,858	0,842	1,019	7	5	7	7
YMR147W	YMR147W	0,699	0,686	1,019	5	2	4	3
YLR150W	STM1	0,861	0,845	1,019	98	72	91	70
YIL075C	RPN2	0,821	0,806	1,019	27	38	27	36
YMR172W	HOT1	0,779	0,765	1,018	1	2	1	2
YDR296W	MHR1	0,844	0,829	1,018	4	9	4	10
YLR166C	SEC10	0,738	0,725	1,018	3	3	2	3
YBR104W	YMC2	0,922	0,906	1,018	4	2	3	2
YBR199W	KTR4	0,405	0,398	1,018	6	2	7	3
YLR203C	MSS51	0,93	0,914	1,018	10	15	14	15
YDR139C	RUB1	0,939	0,923	1,017	4	4	4	4
YGR097W	ASK10	0,766	0,753	1,017	11	10	12	6
YJR105W	ADO1	0,9	0,885	1,017	77	52	76	50
YKL029C	MAE1	0,785	0,772	1,017	31	35	30	34
YLR182W	SWI6	0,667	0,656	1,017	4	5	4	4
YJL033W	HCA4	0,851	0,837	1,017	23	18	20	18
YJL136C	RPS21B	0,854	0,84	1,017	50	33	47	29
YNL111C	CYB5	0,981	0,965	1,017	6	4	5	3
YBR017C	KAP104	0,8	0,787	1,017	8	7	7	10
YER123W	YCK3	0,925	0,91	1,016	6	2	6	1
YPR033C	HTS1	0,864	0,85	1,016	40	40	39	40
YGL055W	OLE1	0,372	0,366	1,016	20	12	16	12
YJL081C	ARP4	0,942	0,927	1,016	6	11	6	8
YLL040C	VPS13	0,755	0,743	1,016	10	9	11	10
YLR314C	CDC3	0,823	0,81	1,016	25	37	28	37
YGR124W	ASN2	0,889	0,875	1,016	38	36	36	36
YCL016C	DCC1	0,767	0,755	1,016	2	4	3	4
YGL244W	RTF1	0,772	0,76	1,016	12	15	14	15

YDL124W	YDL124W	0,849	0,836	1,016	51	55	48	52
YER136W	GDI1	0,915	0,901	1,016	27	40	26	37
YPL139C	UME1	0,852	0,839	1,015	10	17	7	15
YKR025W	RPC37	0,856	0,843	1,015	14	18	9	16
YAL005C	SSA1	0,863	0,85	1,015	38	37	41	37
YKL181W	PRS1	0,935	0,921	1,015	11	18	13	16
YGR262C	BUD32	0,87	0,857	1,015	4	6	5	6
YNL137C	NAM9	0,897	0,884	1,015	17	16	15	17
YDR101C	ARX1	0,899	0,886	1,015	21	27	22	30
YCR028C-A	RIM1	0,91	0,897	1,014	23	17	22	17
YFR051C	RET2	0,856	0,844	1,014	17	27	19	24
YBR155W	CNS1	1	0,986	1,014	16	26	16	24
YDR432W	NPL3	0,931	0,918	1,014	10	10	13	10
YDR012W	RPL4B	0,937	0,924	1,014	9	5	8	6
YNR022C	MRPL50	0,585	0,577	1,014	4	6	3	6
YDR224C	HTB1	0,879	0,867	1,014	43	31	42	32
YOR215C	AIM41	0,882	0,87	1,014	12	19	10	19
YLR335W	NUP2	0,812	0,801	1,014	46	48	43	48
YOR243C	PUS7	0,889	0,877	1,014	28	40	30	39
YDR091C	RLI1	0,894	0,882	1,014	42	41	37	42
YHR051W	COX6	0,835	0,824	1,013	15	22	17	21
YKL027W	YKL027W	0,837	0,826	1,013	9	11	8	11
YDR129C	SAC6	0,843	0,832	1,013	34	34	36	32
YDR150W	NUM1	0,855	0,844	1,013	30	40	30	38
YLR301W	YLR301W	0,947	0,935	1,013	15	22	11	23
YML127W	RSC9	0,793	0,783	1,013	11	6	10	8
YPR002W	PDH1	0,952	0,94	1,013	3	10	4	9
YGR254W	ENO1	0,878	0,867	1,013	64	32	62	40
YEL031W	SPF1	0,879	0,868	1,013	31	22	31	22
YGR232W	NAS6	0,885	0,874	1,013	3	9	4	9
YOR141C	ARP8	0,815	0,805	1,012	8	9	11	8
YLR104W	LCL2	0,906	0,895	1,012	5	1	5	1
YHR039C-A	VMA10	0,837	0,827	1,012	23	15	26	15
YMR112C	MED11	0,758	0,749	1,012	4	4	3	4
YDR529C	QCR7	0,856	0,846	1,012	26	12	26	10
YPR129W	SCD6	0,794	0,785	1,011	10	17	9	15
YBL007C	SLA1	0,89	0,88	1,011	23	35	25	35
YOL005C	RPB11	0,891	0,881	1,011	5	13	8	12
YDL140C	RPO21	0,714	0,706	1,011	46	45	44	44

YEL020W-A	TIM9	0,994	0,983	1,011	16	13	16	14
YGR244C	LSC2	0,916	0,906	1,011	46	42	43	48
YOL027C	MDM38	0,938	0,928	1,011	24	26	21	24
YIL126W	STH1	0,846	0,837	1,011	15	17	15	15
YKL126W	YPK1	0,851	0,842	1,011	11	12	12	14
YKL145W	RPT1	0,856	0,847	1,011	15	18	12	18
YDR292C	SRP101	0,868	0,859	1,010	18	24	22	24
YBR256C	RIB5	0,97	0,96	1,010	11	14	8	13
YHR043C	DOG2	0,876	0,867	1,010	2	7	3	7
YMR309C	NIP1	0,889	0,88	1,010	42	34	40	33
YNL201C	PSY2	0,803	0,795	1,010	3	4	2	3
YGL064C	MRH4	0,932	0,923	1,010	6	8	6	9
YPR103W	PRE2	0,829	0,821	1,010	5	9	6	9
YJL012C	VTC4	0,726	0,719	1,010	13	9	12	12
YMR193W	MRPL24	0,726	0,719	1,010	17	17	14	15
YDL195W	SEC31	0,837	0,829	1,010	68	71	62	68
YHR197W	RIX1	0,74	0,733	1,010	11	7	11	8
YDR316W	OMS1	0,953	0,944	1,010	4	3	4	3
YML016C	PPZ1	0,848	0,84	1,010	11	7	11	6
YOR230W	WTM1	0,857	0,849	1,009	44	44	43	45
YNL074C	MLF3	0,543	0,538	1,009	3	5	2	5
YDR172W	SUP35	0,873	0,865	1,009	38	46	37	41
YDL136W	RPL35B	0,877	0,869	1,009	90	54	85	49
YCL040W	GLK1	0,881	0,873	1,009	36	34	42	33
YBR169C	SSE2	0,882	0,874	1,009	8	15	7	16
YNL160W	YGP1	0,78	0,773	1,009	17	14	16	15
YOL041C	NOP12	0,792	0,785	1,009	38	34	40	36
YGR173W	RBG2	0,797	0,79	1,009	13	15	12	17
YIL108W	YIL108W	0,919	0,911	1,009	12	6	11	6
YIL010W	DOT5	0,805	0,798	1,009	15	14	13	11
YBL036C	YBL036C	0,932	0,924	1,009	18	21	13	18
YPL118W	MRP51	0,937	0,929	1,009	10	17	10	18
YAL030W	SNC1	0,82	0,813	1,009	3	3	3	5
YLR229C	CDC42	0,835	0,828	1,008	8	9	7	7
YGL056C	SDS23	0,844	0,837	1,008	10	13	12	13
YIL076W	SEC28	0,848	0,841	1,008	14	14	10	14
YBR154C	RPB5	0,852	0,845	1,008	12	14	12	16
YER068W	MOT2	0,744	0,738	1,008	11	8	10	10
YDR447C	RPS17B	0,869	0,862	1,008	96	47	91	49

YNL058C	YNL058C	0,382	0,379	1,008
YJR083C	ACF4	0,782	0,776	1,008
YFL018C	LPD1	0,934	0,927	1,008
YGR235C	YGR235C	0,674	0,669	1,007
YDR381W	YRA1	0,834	0,828	1,007
YKL035W	UGP1	0,844	0,838	1,007
YLR438W	CAR2	0,857	0,851	1,007
YKL152C	GPM1	0,859	0,853	1,007
YKL142W	MRP8	0,88	0,874	1,007
YEL052W	AFG1	0,903	0,897	1,007
YHR005C-A	TIM10	0,911	0,905	1,007
YJL130C	URA2	0,774	0,769	1,007
YPL215W	CBP3	0,975	0,969	1,006
YNL015W	PBI2	0,981	0,975	1,006
YNL173C	MDG1	0,846	0,841	1,006
YBL092W	RPL32	0,888	0,883	1,006
YDR156W	RPA14	0,892	0,887	1,006
YDR454C	GUK1	0,901	0,896	1,006
YMR070W	MOT3	0,744	0,74	1,005
YDR303C	RSC3	0,95	0,945	1,005
YPR191W	QCR2	0,975	0,97	1,005
YDR380W	ARO10	0,395	0,393	1,005
YGR186W	TFG1	0,802	0,798	1,005
YLR118C	YLR118C	0,812	0,808	1,005
YBR245C	ISW1	0,826	0,822	1,005
YHL011C	PRS3	0,827	0,823	1,005
YMR304W	UBP15	0,839	0,835	1,005
YOR322C	LDB19	0,867	0,863	1,005
YLR293C	GSP1	0,878	0,874	1,005
YHL034C	SBP1	0,89	0,886	1,005
YNR053C	NOG2	0,683	0,68	1,004
YPL132W	COX11	0,916	0,912	1,004
YGR207C	YGR207C	0,94	0,936	1,004
YDL125C	HNT1	0,841	0,838	1,004
YKL157W	APE2	0,863	0,86	1,003
YGL135W	RPL1B	0,875	0,872	1,003
YKR001C	VPS1	0,888	0,885	1,003
YNL055C	POR1	0,948	0,945	1,003
YCL024W	KCC4	0,762	0,76	1,003

1	1	2	1
6	7	7	8
56	54	53	55
5	7	7	7
25	23	27	23
36	39	36	40
52	45	57	46
149	115	146	112
30	36	29	37
8	8	5	7
24	21	26	22
151	135	151	144
14	6	12	9
10	9	10	9
16	21	18	21
81	61	77	54
8	10	10	10
44	31	40	32
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10	6	7	6
67	43	65	42
14	14	13	14
27	27	21	25
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38	34	35	28
5	7	7	5
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36	37	37	37
34	27	34	29
26	27	25	28
2	3	3	2
28	29	32	30
19	22	17	22
43	52	39	51
76	62	78	55
44	56	37	53
47	42	41	42
4	3	4	4

YAL038W	CDC19	0,857	0,855	1,002	261	220	259	225
YDR099W	BMH2	0,865	0,863	1,002	9	14	10	13
YFL038C	YPT1	0,869	0,867	1,002	11	7	10	6
YKL196C	YKT6	0,885	0,883	1,002	10	8	13	8
YLR131C	ACE2	0,485	0,484	1,002	4	2	2	3
YOR374W	ALD4	0,989	0,987	1,002	56	58	55	61
YGL150C	INO80	0,775	0,774	1,001	10	8	9	8
YLR221C	RSA3	0,785	0,784	1,001	8	7	9	9
YMR226C	YMR226C	0,845	0,844	1,001	37	28	35	31
YGR056W	RSC1	0,863	0,862	1,001	2	2	2	1
YMR142C	RPL13B	0,864	0,863	1,001	91	57	89	60
YHR128W	FUR1	0,865	0,864	1,001	20	23	19	24
YGL206C	CHC1	0,869	0,868	1,001	64	62	65	57
YDR424C	DYN2	0,87	0,869	1,001	4	10	6	8
YLR153C	ACS2	0,873	0,872	1,001	59	58	59	57
YOR117W	RPT5	0,873	0,872	1,001	50	53	48	53
YMR242C	RPL20A	0,875	0,874	1,001	74	58	78	62
YGR187C	HGH1	0,884	0,883	1,001	7	13	7	15
YER074W	RPS24A	0,887	0,886	1,001	89	57	89	54
YOL109W	ZEO1	0,917	0,916	1,001	33	21	32	22
YGL130W	CEG1	0,942	0,941	1,001	4	10	2	10
YDL031W	DBP10	0,915	0,915	1,000	30	42	26	37
YDL147W	RPN5	0,882	0,882	1,000	16	22	19	23
YDR237W	MRPL7	0,955	0,955	1,000	10	11	11	13
YDR408C	ADE8	0,842	0,842	1,000	11	10	11	9
YDR533C	HSP31	0,934	0,934	1,000	20	23	18	23
YER182W	FMP10	0,82	0,82	1,000	4	4	3	4
YGR159C	NSR1	0,804	0,804	1,000	21	21	21	25
YGR261C	APL6	0,839	0,839	1,000	11	7	8	6
YHR074W	QNS1	0,8	0,8	1,000	8	9	9	9
YJL080C	SCP160	0,888	0,888	1,000	154	140	149	131
YJR070C	LIA1	0,852	0,852	1,000	40	35	36	35
YKR014C	YPT52	0,991	0,991	1,000	8	10	6	8
YLR328W	NMA1	0,952	0,952	1,000	7	4	6	6
YNL313C	EMW1	0,934	0,934	1,000	10	13	12	16
YPR105C	COG4	0,927	0,927	1,000	4	2	3	3
YDL174C	DLD1	0,935	0,936	0,999	30	30	28	28
YBR085W	AAC3	0,933	0,934	0,999	1	1	1	1
YER055C	HIS1	0,914	0,915	0,999	27	32	31	31

YBR084C-A	RPL19A	0,877	0,878	0,999	84	41	79	41
YMR074C	YMR074C	0,874	0,875	0,999	9	11	9	8
YOR369C	RPS12	0,865	0,866	0,999	47	32	48	28
YMR029C	FAR8	0,862	0,863	0,999	3	9	4	9
YHR169W	DBP8	0,849	0,85	0,999	5	5	6	5
YNL231C	PDR16	0,827	0,828	0,999	13	21	13	19
YOR332W	VMA4	0,806	0,807	0,999	66	55	63	58
YOR181W	LAS17	0,788	0,789	0,999	7	5	5	5
YBR273C	UBX7	0,668	0,669	0,999	7	10	3	10
YBR225W	YBR225W	0,502	0,503	0,998	1	1	1	1
YKL192C	ACP1	0,955	0,957	0,998	6	4	5	4
YFL016C	MDJ1	0,859	0,861	0,998	14	23	15	20
YMR219W	ESC1	0,81	0,812	0,998	9	10	9	12
YMR110C	HFD1	0,956	0,959	0,997	11	13	10	10
YDR280W	RRP45	0,926	0,929	0,997	3	7	3	7
YGR209C	TRX2	0,893	0,896	0,997	18	13	20	15
YKL206C	ADD66	0,874	0,877	0,997	2	5	3	5
YLR027C	AAT2	0,869	0,872	0,997	56	68	61	65
YPR132W	RPS23B	0,865	0,868	0,997	66	51	64	50
YCR093W	CDC39	0,815	0,818	0,996	18	22	21	22
YPR173C	VPS4	0,792	0,795	0,996	8	16	10	17
YLR163C	MAS1	0,788	0,791	0,996	17	23	20	24
YML092C	PRE8	0,957	0,961	0,996	23	19	23	21
YKL091C	YKL091C	0,903	0,907	0,996	1	3	1	3
YHR121W	LSM12	0,894	0,898	0,996	13	16	10	15
YLR303W	MET17	0,889	0,893	0,996	127	99	131	99
YDR037W	KRS1	0,875	0,879	0,995	79	74	81	79
YER091C	MET6	0,872	0,876	0,995	357	263	363	261
YML126C	ERG13	0,852	0,856	0,995	44	33	40	36
YGL111W	NSA1	0,826	0,83	0,995	16	12	16	12
YNR074C	AIF1	0,934	0,939	0,995	1	6	2	7
YDL046W	NPC2	0,893	0,898	0,994	1	1	2	1
YLR359W	ADE13	0,888	0,893	0,994	32	37	34	39
YGR180C	RNR4	0,881	0,886	0,994	35	46	34	48
YGR204W	ADE3	0,875	0,88	0,994	94	94	94	97
YJL190C	RPS22A	0,871	0,876	0,994	42	44	43	43
YPL010W	RET3	0,853	0,858	0,994	8	6	10	4
YJR046W	TAH11	0,852	0,857	0,994	1	1	1	1
YDL185W	VMA1	0,831	0,836	0,994	127	136	133	135

YIL093C	RSM25	0,993	0,999	0,994
YLL026W	HSP104	0,811	0,816	0,994
YNL208W	YNL208W	0,783	0,788	0,994
YCR072C	RSA4	0,915	0,921	0,993
YBL022C	PIM1	0,906	0,912	0,993
YLR250W	SSP120	0,743	0,748	0,993
YGR034W	RPL26B	0,888	0,894	0,993
YJR094W-A	RPL43B	0,888	0,894	0,993
YKL006W	RPL14A	0,888	0,894	0,993
YER117W	RPL23B	0,879	0,885	0,993
YHR203C	RPS4B	0,879	0,885	0,993
YGR194C	XKS1	0,875	0,881	0,993
YDR050C	TPI1	0,84	0,846	0,993
YOR187W	TUF1	0,964	0,971	0,993
YOR061W	CKA2	0,826	0,832	0,993
YFR044C	DUG1	0,912	0,919	0,992
YJL189W	RPL39	0,884	0,891	0,992
YDR507C	GIN4	0,505	0,509	0,992
YDL075W	RPL31A	0,881	0,888	0,992
YGL245W	GUS1	0,875	0,882	0,992
YPR036W	VMA13	0,859	0,866	0,992
YER110C	KAP123	0,844	0,851	0,992
YHR087W	RTC3	0,958	0,966	0,992
YNL123W	NMA111	0,832	0,839	0,992
YDR221W	GTB1	0,815	0,822	0,991
YGL171W	ROK1	0,808	0,815	0,991
YOR175C	ALE1	0,808	0,815	0,991
YNR051C	BRE5	0,892	0,9	0,991
YNL131W	TOM22	0,887	0,895	0,991
YFL022C	FRS2	0,87	0,878	0,991
YGL001C	ERG26	0,868	0,876	0,991
YER133W	GLC7	0,831	0,839	0,990
YDR044W	HEM13	0,83	0,838	0,990
YGR231C	PHB2	0,921	0,93	0,990
YLR401C	DUS3	0,806	0,814	0,990
YMR140W	SIP5	0,894	0,903	0,990
YNR021W	YNR021W	0,888	0,897	0,990
YBR041W	FAT1	0,885	0,894	0,990
YNR035C	ARC35	0,885	0,894	0,990

8	15	9	15
68	80	64	81
9	5	9	5
8	6	9	5
39	48	36	46
3	10	3	9
82	55	83	49
44	30	41	30
70	56	74	56
37	34	33	35
96	86	100	85
2	5	3	5
61	69	60	70
42	40	43	35
10	17	13	19
39	43	41	40
15	12	14	12
23	13	26	16
60	35	58	27
69	74	73	73
37	32	33	33
52	56	55	55
8	7	7	7
19	22	17	23
9	5	7	7
11	14	12	15
3	2	3	1
19	28	15	30
15	9	17	10
56	48	57	50
16	18	13	17
7	16	6	17
6	17	8	18
26	18	26	21
11	19	13	18
2	2	2	3
15	12	13	9
5	5	4	4
17	14	14	16

YCL054W	SPB1	0,784	0,792	0,990	32	27	28	28
YML063W	RPS1B	0,877	0,886	0,990	95	77	93	67
YKL216W	URA1	0,779	0,787	0,990	77	77	73	72
YHR127W	YHR127W	0,867	0,876	0,990	5	6	5	7
YDR188W	CCT6	0,864	0,873	0,990	36	39	35	37
YMR229C	RRP5	0,863	0,872	0,990	99	99	94	103
YOR204W	DED1	0,859	0,868	0,990	49	37	48	32
YBR221C	PDB1	0,849	0,858	0,990	29	28	31	29
YLR432W	IMD3	0,849	0,858	0,990	63	54	59	54
YPL028W	ERG10	0,902	0,912	0,989	51	45	48	39
YDR135C	YCF1	0,804	0,813	0,989	13	7	11	6
YDR320C-A	DAD4	0,801	0,81	0,989	2	2	2	2
YDL213C	NOP6	0,889	0,899	0,989	5	10	7	11
YGL143C	MRF1	0,886	0,896	0,989	1	3	1	3
YPL131W	RPL5	0,883	0,893	0,989	67	40	65	41
YGL189C	RPS26A	0,882	0,892	0,989	58	53	57	51
YDR002W	YRB1	0,868	0,878	0,989	38	32	36	33
YLR180W	SAM1	0,862	0,872	0,989	142	111	139	118
YKL054C	DEF1	0,852	0,862	0,988	40	31	41	31
YDL100C	GET3	0,845	0,855	0,988	22	29	22	30
YIL142W	CCT2	0,84	0,85	0,988	60	43	55	43
YCL010C	SGF29	0,832	0,842	0,988	5	3	3	4
YLR295C	ATP14	0,742	0,751	0,988	6	13	6	14
YPL263C	KEL3	0,892	0,903	0,988	4	2	3	4
YDL181W	INH1	0,877	0,888	0,988	8	4	8	6
YOL049W	GSH2	0,868	0,879	0,987	12	20	10	20
YGR085C	RPL11B	0,864	0,875	0,987	67	40	70	45
YBR118W	TEF2	0,857	0,868	0,987	356	276	343	268
YPL231W	FAS2	0,853	0,864	0,987	241	196	237	185
YDR353W	TRR1	0,852	0,863	0,987	60	52	61	45
YGR019W	UGA1	0,846	0,857	0,987	20	24	21	20
YLR043C	TRX1	0,922	0,934	0,987	35	33	29	30
YBR037C	SCO1	0,918	0,93	0,987	6	5	6	5
YOR074C	CDC21	0,823	0,834	0,987	4	12	8	13
YGL031C	RPL24A	0,894	0,906	0,987	65	56	61	54
YGR027C	RPS25A	0,879	0,891	0,987	37	20	35	24
YJL034W	KAR2	0,876	0,888	0,986	72	75	82	75
YNL121C	TOM70	0,939	0,952	0,986	59	59	58	58
YOR241W	MET7	0,862	0,874	0,986	9	16	8	18

YHR042W	NCP1	0,85	0,862	0,986	28	30	30	30
YMR009W	ADI1	0,637	0,646	0,986	5	8	5	8
YPL049C	DIG1	0,773	0,784	0,986	8	11	10	10
YEL032W	MCM3	0,627	0,636	0,986	9	23	8	23
YLR096W	KIN2	0,966	0,98	0,986	4	2	4	4
YBR048W	RPS11B	0,89	0,903	0,986	66	42	66	55
YMR194W	RPL36A	0,881	0,894	0,985	65	46	63	41
YIL033C	BCY1	0,88	0,893	0,985	30	29	29	29
YPL061W	ALD6	0,877	0,89	0,985	160	121	150	120
YLR022C	SDO1	0,87	0,883	0,985	3	11	3	10
YGR202C	PCT1	0,867	0,88	0,985	7	11	10	10
YNL302C	RPS19B	0,864	0,877	0,985	6	6	6	6
YER089C	PTC2	0,909	0,923	0,985	19	16	20	17
YKL182W	FAS1	0,838	0,851	0,985	199	159	187	158
YOL077C	BRX1	0,832	0,845	0,985	19	20	21	23
YMR300C	ADE4	0,951	0,966	0,984	17	17	17	17
YFR016C	YFR016C	0,76	0,772	0,984	15	26	17	26
YML008C	ERG6	0,817	0,83	0,984	39	44	41	43
YMR311C	GLC8	0,744	0,756	0,984	14	15	16	16
YFR049W	YMR31	0,679	0,69	0,984	12	7	12	5
YKR095W-A	PCC1	0,861	0,875	0,984	4	4	4	4
YDL208W	NHP2	0,915	0,93	0,984	18	14	14	14
YER090W	TRP2	0,852	0,866	0,984	37	39	36	38
YPR104C	FHL1	0,827	0,841	0,983	2	2	2	4
YER023W	PRO3	0,881	0,896	0,983	37	30	36	30
YEL015W	EDC3	0,88	0,895	0,983	15	10	17	9
YER176W	ECM32	0,875	0,89	0,983	14	7	12	7
YNL216W	RAP1	0,812	0,826	0,983	15	17	13	17
YHR010W	RPL27A	0,868	0,883	0,983	92	44	90	44
YNL239W	LAP3	0,902	0,918	0,983	27	22	22	19
YLR223C	IFH1	0,393	0,4	0,983	2	3	1	5
YJR125C	ENT3	0,785	0,799	0,982	18	21	20	22
YOL127W	RPL25	0,894	0,91	0,982	76	53	75	48
YHR020W	YHR020W	0,89	0,906	0,982	80	67	74	70
YOR198C	BFR1	0,942	0,959	0,982	98	62	101	67
YGR089W	NNF2	0,771	0,785	0,982	3	2	2	1
YDL131W	LYS21	0,823	0,838	0,982	10	14	9	14
YOR171C	LCB4	0,656	0,668	0,982	7	6	7	6
YGL253W	HXK2	0,861	0,877	0,982	72	66	70	63

YOR216C	RUD3	0,858	0,874	0,982	7	17	9	19
YER021W	RPN3	0,801	0,816	0,982	19	18	20	20
YJR045C	SSC1	0,907	0,924	0,982	169	126	164	124
YMR011W	HXT2	0,32	0,326	0,982	2	1	2	1
YFR031C-A	RPL2A	0,851	0,867	0,982	157	116	155	118
YCR088W	ABP1	0,85	0,866	0,982	48	60	47	58
YKL061W	BLI1	0,739	0,753	0,981	1	4	2	5
YNL175C	NOP13	0,839	0,855	0,981	30	44	34	45
YDR356W	SPC110	0,785	0,8	0,981	14	23	11	23
YBR034C	HMT1	0,889	0,906	0,981	14	14	13	16
YJL128C	PBS2	0,782	0,797	0,981	14	10	11	9
YGL065C	ALG2	0,729	0,743	0,981	6	6	7	4
YDR368W	YPR1	0,829	0,845	0,981	19	29	25	29
YLR259C	HSP60	0,93	0,948	0,981	180	110	185	109
YOR310C	NOP58	0,878	0,895	0,981	60	47	59	50
YER125W	RSP5	0,825	0,841	0,981	12	15	13	16
YIL118W	RHO3	0,875	0,892	0,981	8	8	9	8
YHR179W	OYE2	0,772	0,787	0,981	35	39	32	37
YGR192C	TDH3	0,873	0,89	0,981	371	292	370	279
YBR079C	RPG1	0,87	0,887	0,981	123	116	126	107
YLR172C	DPH5	0,818	0,834	0,981	11	10	10	12
YER002W	NOP16	0,814	0,83	0,981	13	12	11	12
YER056C-A	RPL34A	0,863	0,88	0,981	70	47	71	45
YER048C	CAJ1	0,857	0,874	0,981	23	32	17	30
YBR191W	RPL21A	0,903	0,921	0,980	45	38	45	36
YKL014C	URB1	0,898	0,916	0,980	12	7	11	7
YNR046W	TRM112	0,847	0,864	0,980	3	4	3	4
YPR020W	ATP20	0,946	0,965	0,980	3	8	4	8
YOL086C	ADH1	0,846	0,863	0,980	189	146	177	148
YLR075W	RPL10	0,845	0,862	0,980	76	63	72	67
YJL131C	AIM23	0,889	0,907	0,980	3	6	4	6
YLR380W	CSR1	0,838	0,855	0,980	17	17	20	18
YLR447C	VMA6	0,786	0,802	0,980	6	10	6	10
YJL109C	UTP10	0,83	0,847	0,980	21	15	23	16
YGR112W	SHY1	0,926	0,945	0,980	5	7	4	6
YCL009C	ILV6	0,871	0,889	0,980	33	33	32	34
YOR224C	RPB8	0,87	0,888	0,980	5	7	5	6
YPR137W	RRP9	0,869	0,887	0,980	6	15	7	14
YDL166C	FAP7	0,856	0,874	0,979	6	8	6	8

YGL078C	DBP3	0,856	0,874	0,979	46	48	40	52
YHR007C	ERG11	0,375	0,383	0,979	26	24	24	22
YFR032C-A	RPL29	0,937	0,957	0,979	19	15	19	13
YDL178W	DLD2	0,883	0,902	0,979	35	26	35	28
YML111W	BUL2	0,836	0,854	0,979	5	3	4	2
YMR145C	NDE1	0,836	0,854	0,979	58	43	59	48
YIL036W	CST6	0,645	0,659	0,979	11	12	10	11
YFR028C	CDC14	0,826	0,844	0,979	6	8	5	8
YLR388W	RPS29A	0,868	0,887	0,979	33	28	31	30
YGL103W	RPL28	0,864	0,883	0,978	83	62	83	61
YNL147W	LSM7	0,953	0,974	0,978	2	4	2	4
YML094W	GIM5	0,86	0,879	0,978	18	12	14	13
YNL178W	RPS3	0,859	0,878	0,978	83	65	80	64
YHL038C	CBP2	0,948	0,969	0,978	5	3	4	3
YMR188C	MRPS17	0,902	0,922	0,978	12	12	11	12
YBR231C	SWC5	0,54	0,552	0,978	3	6	4	6
YGL148W	ARO2	0,855	0,874	0,978	47	55	47	50
YOR336W	KRE5	0,809	0,827	0,978	8	4	9	5
YBR127C	VMA2	0,807	0,825	0,978	75	68	75	76
YGL049C	TIF4632	0,848	0,867	0,978	29	26	25	27
YJR111C	YJR111C	0,801	0,819	0,978	4	3	4	2
YIL091C	UTP25	0,932	0,953	0,978	16	21	17	21
YGR264C	MES1	0,84	0,859	0,978	47	57	52	53
YGR136W	LSB1	0,482	0,493	0,978	5	11	5	10
YMR205C	PFK2	0,829	0,848	0,978	82	73	78	74
YBR084W	MIS1	0,869	0,889	0,978	37	53	34	52
YDR233C	RTN1	0,868	0,888	0,977	39	28	40	27
YBR196C	PGI1	0,867	0,887	0,977	112	79	112	73
YHR149C	SKG6	0,475	0,486	0,977	2	1	2	1
YOL040C	RPS15	0,862	0,882	0,977	71	60	79	59
YCR053W	THR4	0,857	0,877	0,977	69	67	67	63
YJR007W	SUI2	0,892	0,913	0,977	22	33	20	36
YMR079W	SEC14	0,892	0,913	0,977	32	34	28	31
YBR035C	PDX3	0,882	0,903	0,977	10	19	10	19
YDL066W	IDP1	0,878	0,899	0,977	62	61	62	62
YHR068W	DYS1	0,836	0,856	0,977	34	42	31	40
YPL196W	OXR1	0,708	0,725	0,977	2	1	2	1
YLR009W	RLP24	0,666	0,682	0,977	19	16	18	12
YML120C	NDI1	0,914	0,936	0,976	40	34	42	37

YDR148C	KGD2	0,896	0,918	0,976
YPR069C	SPE3	0,849	0,87	0,976
YML086C	ALO1	0,887	0,909	0,976
YNL274C	GOR1	0,921	0,944	0,976
YGR061C	ADE6	0,879	0,901	0,976
YPL145C	KES1	0,879	0,901	0,976
YDR028C	REG1	0,793	0,813	0,975
YIL041W	GVP36	0,905	0,928	0,975
YLR029C	RPL15A	0,862	0,884	0,975
YPL160W	CDC60	0,822	0,843	0,975
YKL081W	TEF4	0,86	0,882	0,975
YKR043C	YKR043C	0,816	0,837	0,975
YLR448W	RPL6B	0,891	0,914	0,975
YHR208W	BAT1	0,812	0,833	0,975
YDR189W	SLY1	0,888	0,911	0,975
YPL129W	TAF14	0,81	0,831	0,975
YJL069C	UTP18	0,809	0,83	0,975
YOR096W	RPS7A	0,885	0,908	0,975
YGL009C	LEU1	0,846	0,868	0,975
YKL085W	MDH1	0,922	0,946	0,975
YBR149W	ARA1	0,844	0,866	0,975
YDR450W	RPS18A	0,877	0,9	0,974
YER099C	PRS2	0,91	0,934	0,974
YNL157W	IGO1	0,755	0,775	0,974
YNL052W	COX5A	0,594	0,61	0,974
YLR148W	PEP3	0,776	0,797	0,974
YNL040W	YNL040W	0,886	0,91	0,974
YLR249W	YEF3	0,812	0,834	0,974
YDR069C	DOA4	0,659	0,677	0,973
YNL151C	RPC31	0,804	0,826	0,973
YOL057W	YOL057W	0,873	0,897	0,973
YEL044W	IES6	0,908	0,933	0,973
YCR043C	YCR043C	0,652	0,67	0,973
YGL238W	CSE1	0,796	0,818	0,973
YFL045C	SEC53	0,904	0,929	0,973
YLR195C	NMT1	0,864	0,888	0,973
YNL202W	SPS19	0,9	0,925	0,973
YIL022W	TIM44	0,931	0,957	0,973
YGL234W	ADE5,7	0,855	0,879	0,973

21	22	24	20
24	28	24	28
23	15	21	14
17	18	16	18
67	68	71	70
33	53	38	49
12	12	12	11
62	58	63	59
67	60	63	57
121	98	123	96
79	76	79	72
9	13	8	11
70	50	70	47
74	56	74	61
15	19	16	21
9	16	9	17
10	13	9	14
101	80	105	71
111	78	110	88
57	40	59	46
23	30	22	26
39	37	40	38
6	8	6	7
12	10	12	10
7	5	6	5
4	4	3	5
6	7	6	8
297	240	298	246
5	3	4	2
3	7	4	7
16	28	14	28
7	4	7	3
2	1	2	1
7	4	8	6
54	40	56	45
18	28	19	28
3	5	2	4
32	33	31	32
55	50	52	47

YBL064C	PRX1	0,921	0,947	0,973	15	17	16	13
YLL024C	SSA2	0,848	0,872	0,972	262	206	260	196
YCR012W	PGK1	0,879	0,904	0,972	267	177	255	173
YNL308C	KRI1	0,872	0,897	0,972	22	24	19	24
YHR183W	GND1	0,903	0,929	0,972	69	69	70	63
YMR186W	HSC82	0,861	0,886	0,972	139	123	149	124
YOR128C	ADE2	0,894	0,92	0,972	33	38	32	37
YLR286C	CTS1	0,48	0,494	0,972	2	5	3	5
YCL059C	KRR1	0,855	0,88	0,972	15	27	18	27
YNL135C	FPR1	0,887	0,913	0,972	28	20	29	22
YKL073W	LHS1	0,92	0,947	0,971	23	36	24	37
YPL239W	YAR1	0,816	0,84	0,971	17	16	16	18
YLR325C	RPL38	0,878	0,904	0,971	53	31	53	28
YBR263W	SHM1	0,877	0,903	0,971	57	57	54	53
YCR047C	BUD23	0,741	0,763	0,971	4	2	3	2
YGR234W	YHB1	0,804	0,828	0,971	70	62	73	60
YMR212C	EFR3	0,831	0,856	0,971	5	3	4	3
YOR317W	FAA1	0,93	0,958	0,971	41	46	39	44
YDR164C	SEC1	0,83	0,855	0,971	4	6	4	6
YMR012W	CLU1	0,857	0,883	0,971	65	87	62	82
YKL001C	MET14	0,888	0,915	0,970	33	27	35	27
YLR389C	STE23	0,886	0,913	0,970	14	19	15	17
YPR183W	DPM1	0,918	0,946	0,970	24	20	20	20
YGR032W	GSC2	0,686	0,707	0,970	1	1	1	1
YDR088C	SLU7	0,618	0,637	0,970	2	7	5	6
YKL080W	VMA5	0,811	0,836	0,970	38	33	35	35
YBR189W	RPS9B	0,871	0,898	0,970	70	79	70	75
YOR063W	RPL3	0,869	0,896	0,970	177	136	187	132
YJR009C	TDH2	0,802	0,827	0,970	34	28	38	34
YKL211C	TRP3	0,865	0,892	0,970	31	34	29	34
YDL112W	TRM3	0,863	0,89	0,970	10	9	11	11
YHR049W	FSH1	0,892	0,92	0,970	34	31	28	32
YOR091W	TMA46	0,792	0,817	0,969	17	24	17	24
YER164W	CHD1	0,755	0,779	0,969	23	14	22	15
YIL078W	THS1	0,874	0,902	0,969	49	58	46	58
YJR075W	HOC1	0,684	0,706	0,969	6	4	6	4
YJR060W	CBF1	0,807	0,833	0,969	16	17	14	15
YCR073W-A	SOL2	0,837	0,864	0,969	8	8	7	8
YPR181C	SEC23	0,831	0,858	0,969	23	21	21	23

YLR290C	YLR290C	0,922	0,952	0,968	2	2	1	2
YPR088C	SRP54	0,767	0,792	0,968	17	27	16	24
YBR177C	EHT1	0,859	0,887	0,968	20	16	18	19
YJL121C	RPE1	0,859	0,887	0,968	22	26	27	24
YNL007C	SIS1	0,825	0,852	0,968	22	31	21	31
YMR067C	UBX4	0,791	0,817	0,968	16	16	15	17
YGR123C	PPT1	0,845	0,873	0,968	7	14	11	15
YLL045C	RPL8B	0,871	0,9	0,968	128	96	131	94
YGR222W	PET54	0,931	0,962	0,968	1	1	1	1
YKL172W	EBP2	0,9	0,93	0,968	34	28	33	30
YOR356W	YOR356W	0,925	0,956	0,968	21	28	19	28
YNL134C	YNL134C	0,894	0,924	0,968	38	34	41	37
YOR142W	LSC1	0,921	0,952	0,967	44	43	43	37
YKR071C	DRE2	0,412	0,426	0,967	24	22	28	25
YGL097W	SRM1	0,912	0,943	0,967	9	18	10	16
YOL145C	CTR9	0,966	0,999	0,967	15	14	14	14
YGR178C	PBP1	0,847	0,876	0,967	36	39	35	39
YGL173C	KEM1	0,872	0,902	0,967	61	54	58	57
YJR117W	STE24	0,887	0,918	0,966	5	4	6	6
YHL015W	RPS20	0,885	0,916	0,966	51	34	50	33
YOR259C	RPT4	0,852	0,882	0,966	26	24	25	24
YDR367W	KEI1	0,88	0,911	0,966	1	1	1	1
YPR041W	TIF5	0,879	0,91	0,966	57	52	59	53
YDR304C	CPR5	0,878	0,909	0,966	13	19	11	19
YML093W	UTP14	0,679	0,703	0,966	16	22	18	23
YDR111C	ALT2	0,933	0,966	0,966	2	3	3	3
YBL076C	ILS1	0,845	0,875	0,966	71	63	74	67
YNL122C	YNL122C	0,752	0,779	0,965	3	3	5	3
YCR005C	CIT2	0,362	0,375	0,965	7	15	6	15
YER043C	SAH1	0,888	0,92	0,965	93	61	100	58
YOR001W	RRP6	0,775	0,803	0,965	18	20	21	20
YMR203W	TOM40	0,911	0,944	0,965	24	24	22	23
YPR125W	YLH47	0,855	0,886	0,965	7	9	8	10
YCR030C	SYP1	0,854	0,885	0,965	19	20	20	23
YDL229W	SSB1	0,853	0,884	0,965	311	206	303	197
YGL123W	RPS2	0,851	0,882	0,965	111	73	110	69
YLL031C	GPI13	0,711	0,737	0,965	4	2	3	2
YGR285C	ZUO1	0,869	0,901	0,964	61	49	59	46
YGR162W	TIF4631	0,86	0,892	0,964	62	53	57	55

YGL026C	TRP5	0,806	0,836	0,964	78	82	79	83
YKL214C	YRA2	0,806	0,836	0,964	13	9	7	10
YPL271W	ATP15	0,831	0,862	0,964	16	8	14	9
YGL012W	ERG4	0,96	0,996	0,964	3	2	3	3
YOL059W	GPD2	0,744	0,772	0,964	19	18	21	20
YOR143C	THI80	0,929	0,964	0,964	4	6	4	7
YJR002W	MPP10	0,796	0,826	0,964	29	28	25	25
YBL099W	ATP1	0,899	0,933	0,964	85	69	83	65
YMR120C	ADE17	0,846	0,878	0,964	60	61	55	62
YOL066C	RIB2	0,739	0,767	0,963	4	6	2	5
YPL260W	YPL260W	0,868	0,901	0,963	20	24	23	23
YOR232W	MGE1	0,89	0,924	0,963	46	38	46	37
YPR110C	RPC40	0,837	0,869	0,963	30	22	28	21
YNL061W	NOP2	0,863	0,896	0,963	27	32	25	34
YKL204W	EAP1	0,832	0,864	0,963	28	26	27	23
YJL172W	CPS1	0,879	0,913	0,963	15	10	13	12
YMR083W	ADH3	0,871	0,905	0,962	23	29	23	26
YLL001W	DNM1	0,868	0,902	0,962	19	29	23	33
YDL092W	SRP14	0,866	0,9	0,962	10	11	9	11
YNL301C	RPL18B	0,865	0,899	0,962	74	73	65	72
YLR287C-A	RPS30A	0,913	0,949	0,962	19	16	21	16
YER094C	PUP3	0,81	0,842	0,962	7	11	7	10
YJR123W	RPS5	0,885	0,92	0,962	61	53	60	49
YPL093W	NOG1	0,656	0,682	0,962	46	45	47	44
YIL020C	HIS6	0,83	0,863	0,962	7	12	7	11
YMR116C	ASC1	0,83	0,863	0,962	95	86	102	93
YDL078C	MDH3	0,88	0,915	0,962	22	25	19	24
YER006W	NUG1	0,804	0,836	0,962	41	45	42	45
YEL002C	WBP1	0,677	0,704	0,962	5	7	6	7
YGL147C	RPL9A	0,851	0,885	0,962	62	45	61	46
YBR248C	HIS7	0,9	0,936	0,962	30	40	32	42
YKL143W	LTV1	0,899	0,935	0,961	10	11	10	9
YKL033W-A	YKL033W-A	0,845	0,879	0,961	13	18	13	19
YFL005W	SEC4	0,844	0,878	0,961	11	16	12	15
YBR268W	MRPL37	0,818	0,851	0,961	2	5	2	4
YHR196W	UTP9	0,864	0,899	0,961	7	15	11	14
YLL008W	DRS1	0,861	0,896	0,961	19	29	17	28
YJR016C	ILV3	0,81	0,843	0,961	86	88	93	90
YJL138C	TIF2	0,856	0,891	0,961	90	90	91	89

YDL115C	IWR1	0,635	0,661	0,961	4	6	4	6
YPL225W	YPL225W	0,875	0,911	0,960	14	14	15	14
YDR382W	RPP2B	0,802	0,835	0,960	42	42	41	40
YCL045C	EMC1	0,848	0,883	0,960	6	7	6	7
YPL048W	CAM1	0,848	0,883	0,960	17	23	19	22
YNL087W	TCB2	0,847	0,882	0,960	15	13	16	12
YOL077W-A	ATP19	0,435	0,453	0,960	6	4	6	4
YJR144W	MGM101	0,845	0,88	0,960	16	20	14	18
YDR127W	ARO1	0,869	0,905	0,960	68	83	70	84
YLR089C	ALT1	0,724	0,754	0,960	18	26	18	27
YKL060C	FBA1	0,843	0,878	0,960	299	232	309	234
YOL121C	RPS19A	0,867	0,903	0,960	95	61	100	63
YJR077C	MIR1	0,914	0,952	0,960	35	30	37	31
YPL009C	TAE2	0,862	0,898	0,960	10	14	8	14
YIL074C	SER33	0,861	0,897	0,960	38	42	39	42
YOL139C	CDC33	0,902	0,94	0,960	24	24	24	27
YBR025C	OLA1	0,829	0,864	0,959	48	48	47	47
YFR052W	RPN12	0,876	0,913	0,959	13	17	12	16
YBR080C	SEC18	0,826	0,861	0,959	28	35	29	37
YBR218C	PYC2	0,825	0,86	0,959	16	14	15	15
YPR108W	RPN7	0,872	0,909	0,959	16	18	13	19
YDL236W	PHO13	0,87	0,907	0,959	17	20	21	21
YOR209C	NPT1	0,87	0,907	0,959	33	33	36	30
YPL004C	LSP1	0,799	0,833	0,959	56	47	54	45
YKL082C	RRP14	0,822	0,857	0,959	16	22	19	19
YDR238C	SEC26	0,796	0,83	0,959	23	20	26	19
YER073W	ALD5	0,819	0,854	0,959	58	60	48	58
YIL053W	RHR2	0,912	0,951	0,959	99	73	96	70
YPR029C	APL4	0,768	0,801	0,959	11	7	12	7
YNL162W	RPL42A	0,906	0,945	0,959	42	29	34	25
YBR286W	APE3	0,813	0,848	0,959	51	43	50	39
YPR143W	RRP15	0,808	0,843	0,958	12	11	14	10
YJL005W	CYR1	0,738	0,77	0,958	5	7	6	7
YMR189W	GCV2	0,803	0,838	0,958	27	38	27	36
YBR006W	UGA2	0,87	0,908	0,958	4	6	4	5
YJL020C	BBC1	0,8	0,835	0,958	32	45	34	47
YDL198C	GGC1	0,89	0,929	0,958	21	25	21	24
YER159C	BUR6	0,772	0,806	0,958	4	2	3	2
YGR211W	ZPR1	0,84	0,877	0,958	23	30	17	31

YER003C	PMI40	0,884	0,923	0,958	52	50	53	50
YOR354C	MSC6	0,906	0,946	0,958	17	20	14	20
YHR174W	ENO2	0,859	0,897	0,958	393	276	383	255
YGR214W	RPS0A	0,836	0,873	0,958	19	18	17	18
YOL123W	HRP1	0,813	0,849	0,958	15	19	15	20
YHR117W	TOM71	0,903	0,943	0,958	12	15	11	16
YDL103C	QRI1	0,856	0,894	0,957	32	41	32	38
YOR293W	RPS10A	0,875	0,914	0,957	33	20	31	19
YOR133W	EFT1	0,85	0,888	0,957	212	164	210	175
YBR031W	RPL4A	0,849	0,887	0,957	179	132	184	131
YGR054W	YGR054W	0,847	0,885	0,957	38	41	37	43
YLR441C	RPS1A	0,891	0,931	0,957	27	15	24	15
YOR286W	RDL2	0,868	0,907	0,957	19	15	19	20
YLR191W	PEX13	0,488	0,51	0,957	1	3	2	4
YJL200C	ACO2	0,838	0,876	0,957	36	49	36	46
YDR190C	RVB1	0,857	0,896	0,956	34	35	33	39
YER156C	YER156C	0,878	0,918	0,956	17	24	17	24
YDR486C	VPS60	0,812	0,849	0,956	4	5	4	3
YPL226W	NEW1	0,809	0,846	0,956	57	70	57	72
YGR167W	CLC1	0,807	0,844	0,956	21	27	24	29
YFR030W	MET10	0,87	0,91	0,956	107	84	107	83
YGR155W	CYS4	0,848	0,887	0,956	119	72	130	74
YER052C	HOM3	0,847	0,886	0,956	38	38	41	36
YPL173W	MRPL40	0,954	0,998	0,956	19	13	25	23
YML070W	DAK1	0,844	0,883	0,956	31	42	31	37
YNL124W	NAF1	0,649	0,679	0,956	4	6	4	5
YBR172C	SMY2	0,735	0,769	0,956	15	22	16	23
YER081W	SER3	0,925	0,968	0,956	13	12	13	11
YNL241C	ZWF1	0,881	0,922	0,956	50	61	50	60
YDR212W	TCP1	0,858	0,898	0,955	22	22	22	22
YDR388W	RVS167	0,81	0,848	0,955	18	20	20	18
YNL044W	YIP3	0,785	0,822	0,955	8	10	6	8
YBR265W	TSC10	0,763	0,799	0,955	2	2	1	2
YDR299W	BFR2	0,826	0,865	0,955	15	18	15	21
YBR011C	IPP1	0,868	0,909	0,955	84	67	85	68
YBL030C	PET9	0,91	0,953	0,955	37	38	43	35
YNL177C	MRPL22	0,888	0,93	0,955	9	12	7	10
YGL195W	GCN1	0,803	0,841	0,955	44	37	42	39
YMR031C	YMR031C	0,8	0,838	0,955	72	69	70	63

YKL155C	RSM22	0,841	0,881	0,955	14	9	14	9
YHR076W	PTC7	0,862	0,903	0,955	15	18	14	17
YDR158W	HOM2	0,861	0,902	0,955	72	59	77	59
YGL008C	PMA1	0,88	0,922	0,954	143	75	145	81
YPR004C	AIM45	0,919	0,963	0,954	19	22	18	22
YER102W	RPS8B	0,852	0,893	0,954	89	57	88	52
YCL017C	NFS1	0,747	0,783	0,954	5	10	7	13
YKR095W	MLP1	0,788	0,826	0,954	37	45	32	42
YOR375C	GDH1	0,829	0,869	0,954	92	71	92	70
YGL099W	LSG1	0,828	0,868	0,954	23	25	24	26
YOR267C	HRK1	0,765	0,802	0,954	17	15	19	14
YLR060W	FRS1	0,868	0,91	0,954	50	58	53	56
YDR391C	YDR391C	0,909	0,953	0,954	4	5	4	6
YOR260W	GCD1	0,805	0,844	0,954	6	6	6	6
YDL063C	YDL063C	0,908	0,952	0,954	2	2	4	2
YBR015C	MNN2	0,818	0,858	0,953	18	16	17	15
YGR037C	ACB1	0,838	0,879	0,953	14	17	15	18
YLR044C	PDC1	0,817	0,857	0,953	270	244	284	247
YLR355C	ILV5	0,856	0,898	0,953	119	102	119	100
YDL135C	RDI1	0,835	0,876	0,953	11	13	11	12
YOR007C	SGT2	0,832	0,873	0,953	47	42	44	42
YKL088W	CAB3	0,932	0,978	0,953	5	11	4	11
YBL050W	SEC17	0,828	0,869	0,953	14	20	16	18
YHR008C	SOD2	0,806	0,846	0,953	21	23	21	25
YDR165W	TRM82	0,823	0,864	0,953	16	27	15	29
YNL141W	AAH1	0,841	0,883	0,952	25	24	24	24
YPR118W	MRI1	0,879	0,923	0,952	16	22	19	21
YHR019C	DED81	0,855	0,898	0,952	42	51	41	50
YOR298C-A	MBF1	0,754	0,792	0,952	55	43	54	42
YDR071C	PAA1	0,813	0,854	0,952	28	25	27	25
YBR039W	ATP3	0,926	0,973	0,952	45	37	40	35
YOR020W-A	YOR020W-A	0,886	0,931	0,952	3	3	2	2
YDR119W	VBA4	0,883	0,928	0,952	3	4	4	2
YLR084C	RAX2	0,921	0,968	0,951	2	3	2	3
YGL145W	TIP20	0,742	0,78	0,951	5	4	6	6
YDR174W	HMO1	0,835	0,878	0,951	30	22	29	23
YBR171W	SEC66	0,912	0,959	0,951	4	7	4	6
YEL022W	GEA2	0,834	0,877	0,951	9	6	12	6
YOR239W	ABP140	0,832	0,875	0,951	13	23	13	22

YOR311C	DGK1	0,753	0,792	0,951	5	2	4	1
YFR033C	QCR6	0,924	0,972	0,951	14	12	16	12
YJR104C	SOD1	0,749	0,788	0,951	43	24	39	24
YDL001W	RMD1	0,824	0,867	0,950	3	1	2	2
YER078C	ICP55	0,822	0,865	0,950	3	9	2	10
YPR145W	ASN1	0,822	0,865	0,950	63	72	69	69
YML073C	RPL6A	0,879	0,925	0,950	25	17	26	19
YKL191W	DPH2	0,916	0,964	0,950	7	11	5	11
YMR290C	HAS1	0,819	0,862	0,950	18	29	18	31
YIL043C	CBR1	0,857	0,902	0,950	11	16	15	17
YNL085W	MKT1	0,835	0,879	0,950	15	17	15	17
YGR094W	VAS1	0,85	0,895	0,950	80	76	83	76
YCL037C	SRO9	0,792	0,834	0,950	42	31	42	33
YLR340W	RPP0	0,865	0,911	0,950	65	60	67	61
YDR345C	HXT3	0,747	0,787	0,949	6	9	7	9
YJR010W	MET3	0,82	0,864	0,949	55	52	59	52
YAL035W	FUN12	0,857	0,903	0,949	53	54	51	56
YDR312W	SSF2	0,836	0,881	0,949	11	14	12	15
YMR276W	DSK2	0,685	0,722	0,949	6	10	9	10
YNL069C	RPL16B	0,851	0,897	0,949	101	74	106	74
YPR167C	MET16	0,684	0,721	0,949	16	20	17	19
YMR314W	PRE5	0,868	0,915	0,949	22	25	23	21
YER149C	PEA2	0,794	0,837	0,949	12	12	16	13
YDR419W	RAD30	0,903	0,952	0,949	1	1	1	1
YGR181W	TIM13	0,866	0,913	0,949	15	11	13	10
YLL023C	POM33	0,68	0,717	0,948	1	1	1	1
YER165W	PAB1	0,863	0,91	0,948	105	96	111	97
YGL043W	DST1	0,878	0,926	0,948	21	19	21	17
YJL184W	GON7	0,768	0,81	0,948	2	3	3	3
YDL060W	TSR1	0,877	0,925	0,948	16	14	14	15
YMR308C	PSE1	0,893	0,942	0,948	15	17	16	17
YAR002W	NUP60	0,563	0,594	0,948	28	23	29	23
YLL018C	DPS1	0,835	0,881	0,948	59	58	58	59
YPL237W	SUI3	0,889	0,938	0,948	39	53	35	48
YOR116C	RPO31	0,688	0,726	0,948	12	13	12	12
YHR192W	YHR192W	0,866	0,914	0,947	2	4	2	4
YKL056C	TMA19	0,847	0,894	0,947	39	30	37	30
YBR289W	SNF5	0,682	0,72	0,947	3	3	2	3
YFR002W	NIC96	0,824	0,87	0,947	16	16	15	18

YGR063C	SPT4	0,716	0,756	0,947	3	3	4	3
YOR167C	RPS28A	0,821	0,867	0,947	25	14	27	15
YHR146W	CRP1	0,799	0,844	0,947	23	31	25	31
YDL084W	SUB2	0,852	0,9	0,947	39	42	40	42
YPR089W	YPR089W	0,744	0,786	0,947	1	1	1	1
YJL014W	CCT3	0,849	0,897	0,946	33	46	35	41
YHL033C	RPL8A	0,884	0,934	0,946	26	18	24	17
YER020W	GPA2	0,936	0,989	0,946	1	1	1	1
YGR086C	PIL1	0,812	0,858	0,946	67	57	68	55
YDR086C	SSS1	0,792	0,837	0,946	6	2	6	3
YJL041W	NSP1	0,827	0,874	0,946	60	60	67	60
YIL109C	SEC24	0,826	0,873	0,946	13	20	16	21
YPR074C	TKL1	0,861	0,91	0,946	101	76	100	84
YLR276C	DBP9	0,86	0,909	0,946	20	25	19	26
YGL172W	NUP49	0,77	0,814	0,946	7	7	7	7
YPL116W	HOS3	0,802	0,848	0,946	8	15	9	12
YGL202W	ARO8	0,836	0,884	0,946	60	55	59	58
YDR226W	ADK1	0,883	0,934	0,945	91	80	90	82
YLR309C	IMH1	0,812	0,859	0,945	26	31	24	32
YGL157W	ARI1	0,915	0,968	0,945	26	23	23	23
YEL058W	PCM1	0,894	0,946	0,945	14	20	15	19
YGR193C	PDX1	0,859	0,909	0,945	25	29	25	36
YPL090C	RPS6A	0,857	0,907	0,945	116	70	113	73
YLR025W	SNF7	0,889	0,941	0,945	3	10	4	10
YFL039C	ACT1	0,836	0,885	0,945	76	54	74	61
YNL255C	GIS2	0,836	0,885	0,945	15	16	16	18
YKL094W	YJU3	0,852	0,902	0,945	9	13	9	12
YLR277C	YSH1	0,766	0,811	0,945	2	3	3	3
YAR042W	SWH1	0,834	0,883	0,945	10	8	10	5
YDL126C	CDC48	0,779	0,825	0,944	82	86	87	84
YBR089C-A	NHP6B	0,863	0,914	0,944	6	2	4	4
YDL007W	RPT2	0,778	0,824	0,944	28	28	27	28
YHR040W	BCD1	0,71	0,752	0,944	2	3	3	3
YDR377W	ATP17	0,741	0,785	0,944	8	5	8	4
YLR058C	SHM2	0,857	0,908	0,944	125	93	124	89
YNL108C	YNL108C	0,839	0,889	0,944	11	20	10	16
YBR227C	MCX1	0,905	0,959	0,944	16	21	15	20
YOL064C	MET22	0,871	0,923	0,944	26	26	24	26
YDR064W	RPS13	0,868	0,92	0,943	51	30	49	33

YPR163C	TIF3	0,868	0,92	0,943
YBR106W	PHO88	0,817	0,866	0,943
YDR298C	ATP5	0,881	0,934	0,943
YPL111W	CAR1	0,795	0,843	0,943
YMR241W	YHM2	0,828	0,878	0,943
YOR086C	TCB1	0,875	0,928	0,943
YNL259C	ATX1	0,792	0,84	0,943
YER063W	THO1	0,84	0,891	0,943
YNL245C	CWC25	0,609	0,646	0,943
YDL081C	RPP1A	0,834	0,885	0,942
YJR064W	CCT5	0,85	0,902	0,942
YDR335W	MSN5	0,817	0,867	0,942
YIL125W	KGD1	0,882	0,936	0,942
YFR010W	UBP6	0,815	0,865	0,942
YIL105C	SLM1	0,861	0,914	0,942
YAL041W	CDC24	0,682	0,724	0,942
YDR035W	ARO3	0,893	0,948	0,942
YLR354C	TAL1	0,892	0,947	0,942
YNL292W	PUS4	0,826	0,877	0,942
YOR095C	RKI1	0,824	0,875	0,942
YJR137C	MET5	0,806	0,856	0,942
YDR152W	GIR2	0,846	0,899	0,941
YER036C	ARB1	0,844	0,897	0,941
YGL027C	CWH41	0,78	0,829	0,941
YNL267W	PIK1	0,923	0,981	0,941
YML075C	HMG1	0,811	0,862	0,941
YLR057W	YLR057W	0,824	0,876	0,941
YMR102C	YMR102C	0,839	0,892	0,941
YMR235C	RNA1	0,823	0,875	0,941
YEL054C	RPL12A	0,838	0,891	0,941
YAL003W	EFB1	0,836	0,889	0,940
YNL002C	RLP7	0,741	0,788	0,940
YIL009W	FAA3	0,772	0,821	0,940
YIL063C	YRB2	0,85	0,904	0,940
YIR012W	SQT1	0,865	0,92	0,940
YPL023C	MET12	0,8	0,851	0,940
YBR143C	SUP45	0,847	0,901	0,940
YFL037W	TUB2	0,878	0,934	0,940
YGR218W	CRM1	0,845	0,899	0,940

41	33	42	31
19	17	16	18
32	25	33	24
39	36	42	34
10	14	10	14
25	9	24	13
3	4	3	4
15	16	15	14
2	3	2	3
27	24	24	25
53	61	53	59
2	1	2	1
25	38	25	37
25	30	23	26
6	6	6	7
3	6	3	7
44	38	36	37
50	52	49	48
8	14	8	12
20	23	23	23
186	170	185	163
9	10	10	9
51	47	54	43
7	8	10	6
4	4	3	5
20	12	21	11
5	4	4	4
2	2	2	1
28	28	26	29
77	56	78	52
78	67	74	64
27	28	32	27
7	3	7	3
8	15	6	13
6	12	8	12
4	12	3	12
51	52	45	50
19	23	22	19
21	14	20	15

YIL051C	MMF1	0,829	0,882	0,940	41	28	42	28
YOR301W	RAX1	0,61	0,649	0,940	1	2	1	2
YER166W	DNF1	0,795	0,846	0,940	7	11	8	10
YPL079W	RPL21B	0,872	0,928	0,940	6	6	6	6
YDR517W	GRH1	0,794	0,845	0,940	10	4	8	4
YOR341W	RPA190	0,746	0,794	0,940	81	78	73	75
YDL095W	PMT1	0,791	0,842	0,939	13	9	13	12
YDL014W	NOP1	0,822	0,875	0,939	57	52	58	50
YLR429W	CRN1	0,822	0,875	0,939	53	55	64	54
YLR008C	PAM18	0,853	0,908	0,939	7	8	8	7
YOR283W	YOR283W	0,853	0,908	0,939	7	9	7	10
YDL029W	ARP2	0,834	0,888	0,939	20	23	18	19
YCL034W	LSB5	0,787	0,838	0,939	3	8	6	7
YHR070W	TRM5	0,845	0,9	0,939	6	11	6	12
YNL138W	SRV2	0,86	0,916	0,939	29	39	29	38
YBR121C	GRS1	0,888	0,946	0,939	97	93	89	83
YPL127C	HHO1	0,459	0,489	0,939	25	20	26	22
YAL012W	CYS3	0,838	0,893	0,938	58	53	63	51
YPR139C	VPS66	0,806	0,859	0,938	4	3	5	4
YDR428C	BNA7	0,851	0,907	0,938	1	2	1	2
YDL051W	LHP1	0,775	0,826	0,938	23	24	20	24
YOR326W	MYO2	0,789	0,841	0,938	34	27	25	27
YDR297W	SUR2	0,773	0,824	0,938	5	4	4	4
YDR083W	RRP8	0,893	0,952	0,938	9	8	11	7
YLL041C	SDH2	0,798	0,851	0,938	12	14	9	13
YLR216C	CPR6	0,843	0,899	0,938	30	36	30	38
YGL106W	MLC1	0,794	0,847	0,937	13	16	11	14
YBR249C	ARO4	0,836	0,892	0,937	60	58	59	60
YER178W	PDA1	0,806	0,86	0,937	24	38	24	41
YBL039C	URA7	0,805	0,859	0,937	45	52	47	56
YBL058W	SHP1	0,775	0,827	0,937	18	26	17	22
YJR131W	MNS1	0,596	0,636	0,937	2	2	3	2
YDL083C	RPS16B	0,878	0,937	0,937	65	49	69	53
YML048W	GSF2	0,815	0,87	0,937	20	14	19	13
YGL023C	PIB2	0,74	0,79	0,937	7	10	5	9
YDR465C	RMT2	0,799	0,853	0,937	6	7	7	7
YPL169C	MEX67	0,807	0,862	0,936	10	15	6	14
YKL077W	YKL077W	0,803	0,858	0,936	6	10	6	11
YER092W	IES5	0,613	0,655	0,936	7	7	7	8

YCR031C	RPS14A	0,817	0,873	0,936
YJR025C	BNA1	0,874	0,934	0,936
YLR382C	NAM2	0,814	0,87	0,936
YNL104C	LEU4	0,813	0,869	0,936
YMR217W	GUA1	0,856	0,915	0,936
YOR027W	STI1	0,826	0,883	0,935
YJR139C	HOM6	0,854	0,913	0,935
YHR064C	SSZ1	0,849	0,908	0,935
YML035C	AMD1	0,906	0,969	0,935
YNL154C	YCK2	0,733	0,784	0,935
YER057C	HMF1	0,818	0,875	0,935
YLR048W	RPS0B	0,803	0,859	0,935
YDR023W	SES1	0,845	0,904	0,935
YGR240C	PFK1	0,801	0,857	0,935
YLR175W	CBF5	0,813	0,87	0,934
YCL030C	HIS4	0,85	0,91	0,934
YMR267W	PPA2	0,906	0,97	0,934
YLR406C	RPL31B	0,762	0,816	0,934
YNL248C	RPA49	0,832	0,891	0,934
YDR429C	TIF35	0,845	0,905	0,934
YOL149W	DCP1	0,731	0,783	0,934
YJL154C	VPS35	0,829	0,888	0,934
YPL091W	GLR1	0,871	0,933	0,934
YOR261C	RPN8	0,771	0,826	0,933
YPL161C	BEM4	0,855	0,916	0,933
YHR199C	AIM46	0,588	0,63	0,933
YDR011W	SNQ2	0,696	0,746	0,933
YLR200W	YKE2	0,848	0,909	0,933
YLR219W	MSC3	0,834	0,894	0,933
YMR214W	SCJ1	0,874	0,937	0,933
YDL055C	PSA1	0,818	0,877	0,933
YLR179C	YLR179C	0,803	0,861	0,933
YDR060W	MAK21	0,854	0,916	0,932
YBL031W	SHE1	0,537	0,576	0,932
YMR307W	GAS1	0,81	0,869	0,932
YPL115C	BEM3	0,712	0,764	0,932
YKR016W	FCJ1	0,862	0,925	0,932
YJL180C	ATP12	0,833	0,894	0,932
YMR080C	NAM7	0,844	0,906	0,932

95	78	95	76
6	10	5	10
4	3	4	3
57	46	63	45
57	55	56	53
99	85	102	81
78	67	80	65
75	68	78	71
13	11	10	10
8	6	9	7
27	22	26	25
49	37	50	34
62	60	67	55
109	90	114	98
28	31	34	33
104	91	101	92
5	13	8	14
4	4	4	4
37	32	37	25
15	15	15	17
3	6	4	6
3	1	3	1
31	40	26	40
27	17	30	19
5	2	4	1
3	6	3	6
4	4	4	5
11	12	12	13
17	13	17	14
8	12	7	14
71	60	72	59
15	17	18	17
19	29	21	27
1	2	1	1
31	20	31	24
8	7	7	7
18	30	16	30
5	7	5	8
9	12	10	15

YNL132W	KRE33	0,83	0,891	0,932	24	23	22	23
YPR171W	BSP1	0,76	0,816	0,931	6	5	5	3
YOR271C	FSF1	0,881	0,946	0,931	10	10	9	10
YHR193C	EGD2	0,867	0,931	0,931	62	51	62	46
YPR010C	RPA135	0,77	0,827	0,931	40	30	39	30
YHR063C	PAN5	0,797	0,856	0,931	15	19	17	19
YEL055C	POL5	0,851	0,914	0,931	13	11	14	10
YCL018W	LEU2	0,782	0,84	0,931	90	81	87	82
YIL005W	EPS1	0,647	0,695	0,931	8	5	8	5
YDL153C	SAS10	0,795	0,854	0,931	19	14	19	13
YER070W	RNR1	0,484	0,52	0,931	26	26	26	26
YIL021W	RPB3	0,819	0,88	0,931	17	13	15	15
YDL004W	ATP16	0,872	0,937	0,931	30	25	31	23
YDL143W	CCT4	0,803	0,863	0,930	26	28	23	28
YPL249C	GYP5	0,814	0,875	0,930	7	6	7	5
YAL049C	AIM2	0,827	0,889	0,930	7	13	5	11
YBR280C	SAF1	0,879	0,945	0,930	1	1	1	1
YOL098C	YOL098C	0,785	0,844	0,930	23	21	21	22
YLR197W	NOP56	0,838	0,901	0,930	64	67	68	63
YJL008C	CCT8	0,823	0,885	0,930	51	54	44	50
YPL198W	RPL7B	0,874	0,94	0,930	10	4	11	3
YBR222C	PCS60	0,794	0,854	0,930	18	19	15	22
YGR270W	YTA7	0,807	0,868	0,930	5	7	6	7
YKL104C	GFA1	0,873	0,939	0,930	29	37	27	32
YJL071W	ARG2	0,845	0,909	0,930	5	4	4	2
YNL240C	NAR1	0,871	0,937	0,930	2	2	4	2
YPL217C	BMS1	0,8	0,861	0,929	21	28	24	24
YJR017C	ESS1	0,869	0,936	0,928	9	16	7	16
YER082C	UTP7	0,803	0,865	0,928	17	23	20	25
YPR060C	ARO7	0,851	0,917	0,928	11	18	10	16
YJL082W	IML2	0,696	0,75	0,928	1	2	2	2
YHR103W	SBE22	0,296	0,319	0,928	2	1	3	1
YMR297W	PRC1	0,744	0,802	0,928	13	25	14	24
YLR061W	RPL22A	0,87	0,938	0,928	15	13	17	13
YIL133C	RPL16A	0,844	0,91	0,927	49	33	51	29
YNL168C	FMP41	0,818	0,882	0,927	10	11	10	12
YNR043W	MVD1	0,816	0,88	0,927	24	23	24	22
YGL120C	PRP43	0,851	0,918	0,927	18	21	19	16
YOR168W	GLN4	0,824	0,889	0,927	52	67	46	68

YDR293C	SSD1	0,835	0,901	0,927	26	32	31	33
YPL151C	PRP46	0,759	0,819	0,927	1	2	1	3
YHL013C	OTU2	0,859	0,927	0,927	3	6	2	5
YBR111C	YSA1	0,896	0,967	0,927	17	11	18	14
YKL018W	SWD2	0,792	0,855	0,926	8	11	7	8
YOR196C	LIP5	0,665	0,718	0,926	10	11	9	11
YPL240C	HSP82	0,765	0,826	0,926	10	13	11	15
YMR091C	NPL6	0,802	0,866	0,926	12	21	12	22
YBL001C	ECM15	0,764	0,825	0,926	4	7	6	6
YNL071W	LAT1	0,889	0,96	0,926	51	40	55	36
YGL048C	RPT6	0,801	0,865	0,926	33	35	34	33
YLR208W	SEC13	0,8	0,864	0,926	17	18	16	18
YOR335C	ALA1	0,799	0,863	0,926	89	76	82	75
YPR024W	YME1	0,699	0,755	0,926	12	15	13	14
YMR049C	ERB1	0,848	0,916	0,926	31	35	31	37
YHR065C	RRP3	0,81	0,875	0,926	14	14	10	14
YJL117W	PHO86	0,893	0,965	0,925	2	2	2	1
YDR508C	GNP1	0,347	0,375	0,925	5	5	5	5
YIR036C	IRC24	0,878	0,949	0,925	6	10	9	9
YLR384C	IKI3	0,853	0,922	0,925	21	20	24	24
YHL039W	EFM1	0,865	0,935	0,925	5	3	4	2
YNR050C	LYS9	0,852	0,921	0,925	35	43	32	38
YLR192C	HCR1	0,753	0,814	0,925	31	34	32	33
YIL034C	CAP2	0,739	0,799	0,925	5	5	6	6
YLR287C	YLR287C	0,874	0,945	0,925	4	3	2	3
YBR088C	POL30	0,836	0,904	0,925	17	27	17	27
YAL044C	GCV3	0,811	0,877	0,925	13	12	12	13
YPL262W	FUM1	0,857	0,927	0,924	34	36	28	34
YDL226C	GCS1	0,832	0,9	0,924	24	31	28	33
YDR321W	ASP1	0,832	0,9	0,924	15	20	15	20
YLR304C	ACO1	0,78	0,844	0,924	103	104	108	109
YGR152C	RSR1	0,742	0,803	0,924	5	3	5	3
YHR107C	CDC12	0,869	0,941	0,923	24	22	26	23
YOR122C	PFY1	0,816	0,884	0,923	16	19	19	15
YNL268W	LYP1	0,406	0,44	0,923	4	3	6	1
YKL134C	OCT1	0,692	0,75	0,923	3	1	3	2
YGL030W	RPL30	0,87	0,943	0,923	23	27	22	27
YIL062C	ARC15	0,834	0,904	0,923	4	6	5	6
YAL016W	TPD3	0,831	0,901	0,922	13	17	9	15

YDL061C	RPS29B	0,83	0,9	0,922	32	20	30	21
YKR062W	TFA2	0,651	0,706	0,922	7	15	8	16
YER029C	SMB1	0,722	0,783	0,922	4	5	4	6
YNL224C	SQS1	0,731	0,793	0,922	2	1	3	2
YJR069C	HAM1	0,825	0,895	0,922	14	17	14	18
YEL026W	SNU13	0,848	0,92	0,922	16	11	15	9
YGR253C	PUP2	0,812	0,881	0,922	19	15	15	14
YIL044C	AGE2	0,716	0,777	0,921	5	10	6	8
YHR163W	SOL3	0,845	0,917	0,921	18	19	16	21
YGL011C	SCL1	0,831	0,902	0,921	24	22	23	22
YPL137C	GIP3	0,784	0,851	0,921	10	8	7	8
YKR072C	SIS2	0,864	0,938	0,921	15	11	13	12
YPR180W	AOS1	0,869	0,944	0,921	2	7	1	9
YIR038C	GTT1	0,776	0,843	0,921	7	13	10	13
YJR121W	ATP2	0,878	0,954	0,920	112	73	115	70
YNR001C	CIT1	0,82	0,891	0,920	34	38	33	36
YIR006C	PAN1	0,785	0,853	0,920	41	52	44	47
YLL050C	COF1	0,831	0,903	0,920	23	21	23	25
YGL125W	MET13	0,473	0,514	0,920	19	22	24	22
YDR399W	HPT1	0,864	0,939	0,920	14	15	17	15
YOR234C	RPL33B	0,817	0,888	0,920	3	3	3	3
YJL179W	PFD1	0,667	0,725	0,920	9	5	9	7
YDR365C	ESF1	0,828	0,9	0,920	23	25	21	24
YLR106C	MDN1	0,829	0,902	0,919	29	18	25	15
YNL050C	YNL050C	0,863	0,939	0,919	6	7	4	8
YNL096C	RPS7B	0,804	0,875	0,919	43	32	42	32
YOR021C	YOR021C	0,866	0,943	0,918	24	28	21	25
YKL180W	RPL17A	0,853	0,929	0,918	121	69	121	63
YJR113C	RSM7	0,873	0,951	0,918	7	10	8	11
YER114C	BOI2	0,704	0,767	0,918	5	15	5	16
YML131W	YML131W	0,838	0,913	0,918	17	19	17	17
YNL167C	SKO1	0,636	0,693	0,918	4	2	4	2
YMR161W	HLJ1	0,717	0,782	0,917	2	2	1	2
YDL120W	YFH1	0,75	0,818	0,917	4	5	3	3
YGR282C	BGL2	0,397	0,433	0,917	11	12	13	13
YAR007C	RFA1	0,782	0,853	0,917	18	24	14	22
YGR008C	STF2	0,506	0,552	0,917	6	7	6	6
YGR157W	CHO2	0,78	0,851	0,917	9	12	10	12
YIL148W	RPL40A	0,834	0,91	0,916	19	14	20	15

YDR146C	SWI5	0,197	0,215	0,916	2	1	1	1
YFR015C	GSY1	0,777	0,848	0,916	3	2	3	3
YOL061W	PRS5	0,798	0,871	0,916	27	28	27	28
YDL148C	NOP14	0,85	0,928	0,916	20	10	22	9
YGR185C	TYS1	0,836	0,913	0,916	38	35	37	35
YJL186W	MNN5	0,738	0,806	0,916	17	12	19	16
YJR065C	ARP3	0,867	0,947	0,916	15	19	16	17
YGR128C	UTP8	0,758	0,828	0,915	10	16	13	16
YJL026W	RNR2	0,789	0,862	0,915	27	25	26	24
YOR323C	PRO2	0,81	0,885	0,915	27	34	29	31
YOR057W	SGT1	0,734	0,802	0,915	4	8	5	9
YLR337C	VRP1	0,83	0,907	0,915	13	14	18	11
YHR167W	THP2	0,819	0,895	0,915	3	4	2	4
YMR239C	RNT1	0,817	0,893	0,915	5	5	4	6
YHR113W	YHR113W	0,815	0,891	0,915	19	22	17	22
YDR294C	DPL1	0,761	0,832	0,915	11	8	10	8
YKR039W	GAP1	0,332	0,363	0,915	1	1	1	1
YNL306W	MRPS18	0,716	0,783	0,914	4	12	3	12
YER031C	YPT31	0,833	0,911	0,914	7	9	8	10
YMR038C	CCS1	0,744	0,814	0,914	25	21	24	21
YNL006W	LST8	0,754	0,825	0,914	2	2	1	2
YOL124C	TRM11	0,837	0,916	0,914	3	5	4	4
YDR257C	RKM4	0,793	0,868	0,914	4	5	3	4
YLR270W	DCS1	0,835	0,914	0,914	14	22	14	23
YMR008C	PLB1	0,904	0,99	0,913	1	3	1	3
YDR272W	GLO2	0,702	0,769	0,913	16	20	14	16
YOR165W	SEY1	0,848	0,929	0,913	14	16	14	15
YDR412W	RRP17	0,827	0,906	0,913	10	7	13	3
YKL127W	PGM1	0,847	0,928	0,913	13	14	14	15
YPL106C	SSE1	0,836	0,916	0,913	187	147	187	136
YDR266C	YDR266C	0,794	0,87	0,913	14	18	12	17
YKL120W	OAC1	0,803	0,88	0,913	16	15	16	13
YDR395W	SXM1	0,792	0,868	0,912	7	9	7	7
YOR212W	STE4	0,729	0,799	0,912	5	6	4	3
YLR015W	BRE2	0,874	0,958	0,912	3	4	3	5
YIR034C	LYS1	0,8	0,877	0,912	25	37	28	37
YFL021W	GAT1	0,322	0,353	0,912	1	1	1	1
YHR005C	GPA1	0,745	0,817	0,912	7	8	9	6
YJR051W	OSM1	0,827	0,907	0,912	2	4	2	4

YDR487C	RIB3	0,837	0,918	0,912
YJL074C	SMC3	0,785	0,861	0,912
YJL122W	ALB1	0,72	0,79	0,911
YER126C	NSA2	0,473	0,519	0,911
YML110C	COQ5	0,745	0,818	0,911
YGL122C	NAB2	0,816	0,896	0,911
YFL048C	EMP47	0,801	0,88	0,910
YDR019C	GCV1	0,78	0,857	0,910
YNL183C	NPR1	0,83	0,912	0,910
YGR135W	PRE9	0,808	0,888	0,910
YJL176C	SWI3	0,808	0,888	0,910
YDR341C	YDR341C	0,835	0,918	0,910
YBL045C	COR1	0,875	0,962	0,910
YMR149W	SWP1	0,853	0,938	0,909
YDL145C	COP1	0,782	0,86	0,909
YJL060W	BNA3	0,868	0,955	0,909
YNL251C	NRD1	0,697	0,767	0,909
YPL105C	SYH1	0,796	0,876	0,909
YBR208C	DUR1,2	0,783	0,862	0,908
YOR294W	RRS1	0,822	0,905	0,908
YDR378C	LSM6	0,868	0,956	0,908
YHR170W	NMD3	0,796	0,877	0,908
YMR246W	FAA4	0,648	0,714	0,908
YER151C	UBP3	0,814	0,897	0,907
YKL193C	SDS22	0,852	0,939	0,907
YHR138C	YHR138C	0,646	0,712	0,907
YGR175C	ERG1	0,205	0,226	0,907
YOL143C	RIB4	0,732	0,807	0,907
YOL021C	DIS3	0,808	0,891	0,907
YOR206W	NOC2	0,876	0,966	0,907
YIL145C	PAN6	0,837	0,923	0,907
YIL098C	FMC1	0,816	0,9	0,907
YEL071W	DLD3	0,851	0,939	0,906
YDR496C	PUF6	0,84	0,927	0,906
YBR164C	ARL1	0,809	0,893	0,906
YLR319C	BUD6	0,789	0,871	0,906
YIL095W	PRK1	0,721	0,796	0,906
YLR026C	SED5	0,816	0,901	0,906
YDL065C	PEX19	0,815	0,9	0,906

18	19	17	17
19	25	18	25
24	10	23	12
18	19	20	20
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4	8	5	8
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25	29	26	27
4	6	4	5
6	9	9	8
7	6	7	6
5	9	8	8
12	20	6	22

YOR042W	CUE5	0,805	0,889	0,906	14	14	15	17
YKL150W	MCR1	0,872	0,963	0,906	38	39	34	35
YLR330W	CHS5	0,755	0,834	0,905	12	22	13	24
YFR009W	GCN20	0,79	0,873	0,905	26	27	26	27
YDL156W	YDL156W	0,644	0,712	0,904	3	2	3	2
YJL198W	PHO90	0,587	0,649	0,904	3	2	3	2
YHR024C	MAS2	0,899	0,994	0,904	18	18	19	17
YNL233W	BNI4	0,681	0,753	0,904	9	15	8	15
YDR234W	LYS4	0,851	0,941	0,904	20	20	20	23
YJL168C	SET2	0,623	0,689	0,904	5	4	5	5
YDR372C	VPS74	0,755	0,835	0,904	18	19	15	20
YLR222C	UTP13	0,745	0,824	0,904	8	17	11	17
YOR136W	IDH2	0,761	0,842	0,904	36	34	34	33
YIL039W	TED1	0,805	0,891	0,903	2	4	3	5
YJL115W	ASF1	0,87	0,963	0,903	3	5	5	5
YOL010W	RCL1	0,821	0,909	0,903	3	7	1	7
YNL229C	URE2	0,755	0,836	0,903	4	6	4	6
YJL054W	TIM54	0,799	0,885	0,903	10	13	13	13
YHR097C	YHR097C	0,65	0,72	0,903	12	13	10	11
YOR184W	SER1	0,817	0,905	0,903	40	39	41	39
YJL042W	MHP1	0,797	0,883	0,903	10	6	8	7
YNL064C	YDJ1	0,834	0,924	0,903	45	49	45	48
YML011C	RAD33	0,667	0,739	0,903	1	2	1	2
YOR163W	DDP1	0,864	0,958	0,902	4	9	3	9
YCR054C	CTR86	0,835	0,926	0,902	2	2	2	2
YNL041C	COG6	0,734	0,814	0,902	3	6	2	7
YLR420W	URA4	0,723	0,802	0,901	16	32	19	32
YML124C	TUB3	0,704	0,781	0,901	7	8	7	9
YIL149C	MLP2	0,731	0,811	0,901	8	11	9	14
YKR048C	NAP1	0,765	0,849	0,901	27	31	28	30
YNL220W	ADE12	0,828	0,919	0,901	40	51	40	50
YOL039W	RPP2A	0,827	0,918	0,901	43	35	42	34
YDL182W	LYS20	0,831	0,923	0,900	40	40	39	38
YOR108W	LEU9	0,83	0,922	0,900	16	24	19	23
YEL037C	RAD23	0,766	0,851	0,900	7	5	6	7
YER086W	ILV1	0,806	0,896	0,900	41	52	44	50
YNR049C	MSO1	0,752	0,836	0,900	3	3	2	3
YKL053C-A	MDM35	0,832	0,925	0,899	3	6	5	6
YER008C	SEC3	0,662	0,736	0,899	4	2	5	2

YLR244C	MAP1	0,767	0,853	0,899	19	29	20	29
YDR513W	GRX2	0,829	0,922	0,899	18	20	18	18
YLL011W	SOF1	0,686	0,763	0,899	11	11	12	11
YLR002C	NOC3	0,827	0,92	0,899	5	4	5	4
YBL024W	NCL1	0,831	0,925	0,898	37	50	35	51
YOL076W	MDM20	0,742	0,826	0,898	8	3	5	2
YPR168W	NUT2	0,724	0,806	0,898	5	5	3	5
YGL233W	SEC15	0,66	0,735	0,898	2	1	3	1
YFL024C	EPL1	0,554	0,617	0,898	3	2	3	2
YJR014W	TMA22	0,808	0,9	0,898	11	12	11	13
YHR114W	BZZ1	0,834	0,929	0,898	12	14	12	14
YDL074C	BRE1	0,804	0,896	0,897	7	12	9	9
YBR122C	MRPL36	0,821	0,915	0,897	9	8	11	8
YML081C-A	ATP18	0,733	0,817	0,897	6	5	5	5
YDR389W	SAC7	0,731	0,815	0,897	5	3	5	3
YNL247W	YNL247W	0,852	0,95	0,897	41	56	41	51
YMR173W	DDR48	0,737	0,822	0,897	9	9	9	10
YPL204W	HRR25	0,64	0,714	0,896	4	4	4	6
YIL008W	URM1	0,835	0,932	0,896	2	1	3	1
YPR165W	RHO1	0,809	0,903	0,896	9	10	8	10
YHR018C	ARG4	0,813	0,908	0,895	36	29	28	29
YNL112W	DBP2	0,855	0,955	0,895	42	49	47	48
YCL012C	YCL012C	0,641	0,716	0,895	3	2	2	2
YBR111W-A	SUS1	0,564	0,63	0,895	3	4	2	6
YKL040C	NFU1	0,768	0,858	0,895	13	14	13	14
YLR045C	STU2	0,768	0,858	0,895	11	8	9	7
YOR048C	RAT1	0,844	0,943	0,895	8	8	7	10
YMR153W	NUP53	0,784	0,876	0,895	16	15	16	15
YBL103C	RTG3	0,612	0,684	0,895	3	6	2	6
YJL096W	MRPL49	0,87	0,973	0,894	10	9	8	9
YOR304C-A	YOR304C-A	0,657	0,735	0,894	4	5	3	5
YBR198C	TAF5	0,774	0,866	0,894	6	5	4	4
YKR056W	TRM2	0,755	0,845	0,893	19	26	22	25
YPL043W	NOP4	0,694	0,777	0,893	24	28	24	27
YOR252W	TMA16	0,627	0,702	0,893	6	9	6	9
YMR093W	UTP15	0,793	0,888	0,893	7	13	6	13
YLR369W	SSQ1	0,884	0,99	0,893	16	24	16	21
YNL098C	RAS2	0,8	0,896	0,893	26	20	29	19
YOR020C	HSP10	0,883	0,989	0,893	39	20	40	17

YKL212W	SAC1	0,779	0,873	0,892	18	16	17	10
YGR078C	PAC10	0,793	0,889	0,892	14	13	11	14
YMR227C	TAF7	0,793	0,889	0,892	8	11	7	7
YPL143W	RPL33A	0,825	0,925	0,892	39	37	43	38
YPL178W	CBC2	0,824	0,924	0,892	6	8	6	8
YEL046C	GLY1	0,749	0,84	0,892	30	42	29	40
YDR231C	COX20	0,762	0,855	0,891	8	4	8	3
YML106W	URA5	0,827	0,928	0,891	17	26	20	24
YER007C-A	TMA20	0,835	0,937	0,891	15	21	16	20
YLR196W	PWP1	0,81	0,909	0,891	20	37	22	41
YMR043W	MCM1	0,695	0,78	0,891	1	1	1	1
YBL079W	NUP170	0,85	0,954	0,891	13	7	10	7
YDL021W	GPM2	0,768	0,862	0,891	9	13	9	15
YFL047W	RGD2	0,733	0,823	0,891	7	9	5	7
YDR153C	ENT5	0,692	0,777	0,891	11	10	13	12
YLR433C	CNA1	0,822	0,923	0,891	2	3	4	3
YKL069W	YKL069W	0,854	0,959	0,891	5	11	6	11
YGL076C	RPL7A	0,813	0,913	0,890	89	60	89	60
YDL122W	UBP1	0,796	0,894	0,890	9	12	8	12
YGL232W	TAN1	0,851	0,956	0,890	4	10	5	10
YGL006W	PMC1	0,859	0,965	0,890	3	4	3	5
YBR214W	SDS24	0,623	0,7	0,890	4	7	5	7
YKL137W	CMC1	0,36	0,405	0,889	3	5	4	7
YKR067W	GPT2	0,839	0,944	0,889	7	6	6	6
YGL184C	STR3	0,783	0,881	0,889	10	13	10	14
YPR016C	TIF6	0,798	0,898	0,889	5	7	6	7
YML062C	MFT1	0,782	0,88	0,889	7	12	11	9
YOR285W	RDL1	0,781	0,879	0,889	16	16	14	16
YJL050W	MTR4	0,78	0,878	0,888	22	26	20	26
YPL134C	ODC1	0,818	0,921	0,888	1	2	1	2
YLR071C	RGR1	0,69	0,777	0,888	5	1	3	1
YOR321W	PMT3	0,871	0,981	0,888	2	2	3	2
YML055W	SPC2	0,852	0,96	0,888	5	2	5	1
YJL001W	PRE3	0,858	0,967	0,887	8	12	7	12
YML012W	ERV25	0,698	0,787	0,887	7	5	8	6
YDR427W	RPN9	0,835	0,942	0,886	15	25	20	25
YNL119W	NCS2	0,85	0,959	0,886	6	12	6	12
YLR413W	YLR413W	0,739	0,834	0,886	4	4	4	4
YBL056W	PTC3	0,791	0,893	0,886	5	6	5	6

YPR086W	SUA7	0,649	0,733	0,885
YGL223C	COG1	0,834	0,942	0,885
YBR130C	SHE3	0,809	0,914	0,885
YLR113W	HOG1	0,801	0,905	0,885
YPL212C	PUS1	0,807	0,912	0,885
YPL101W	ELP4	0,822	0,929	0,885
YHR147C	MRPL6	0,503	0,569	0,884
YOR051C	ETT1	0,746	0,844	0,884
YDL161W	ENT1	0,729	0,825	0,884
YMR016C	SOK2	0,667	0,755	0,883
YCL033C	MXR2	0,772	0,874	0,883
YOR046C	DBP5	0,764	0,865	0,883
YOR098C	NUP1	0,717	0,812	0,883
YHR052W	CIC1	0,821	0,93	0,883
YFL010C	WWM1	0,757	0,858	0,882
YOR123C	LEO1	0,793	0,899	0,882
YPR018W	RLF2	0,613	0,695	0,882
YOR022C	YOR022C	0,814	0,923	0,882
YFL008W	SMC1	0,746	0,846	0,882
YMR062C	ARG7	0,826	0,937	0,882
YGR013W	SNU71	0,818	0,928	0,881
YML097C	VPS9	0,757	0,859	0,881
YBR082C	UBC4	0,823	0,934	0,881
YDR138W	HPR1	0,709	0,805	0,881
YPR112C	MRD1	0,72	0,818	0,880
YNL166C	BNI5	0,638	0,725	0,880
YOL097C	WRS1	0,811	0,922	0,880
YKL016C	ATP7	0,721	0,82	0,879
YLR390W-A	CCW14	0,284	0,323	0,879
YLR038C	COX12	0,699	0,795	0,879
YDR227W	SIR4	0,734	0,835	0,879
YIR021W	MRS1	0,821	0,934	0,879
YGR277C	CAB4	0,835	0,95	0,879
YOR145C	PNO1	0,697	0,793	0,879
YHR029C	YHI9	0,853	0,971	0,878
YBR236C	ABD1	0,809	0,921	0,878
YKR028W	SAP190	0,683	0,778	0,878
YAR015W	ADE1	0,85	0,969	0,877
YAL019W	FUN30	0,699	0,797	0,877

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13	12	12	9
10	13	10	14
2	7	2	7
11	9	13	9
22	28	23	31
9	7	11	7

YJR034W	PET191	0,875	0,998	0,877	4	7	3	5
YCR016W	YCR016W	0,832	0,949	0,877	10	16	7	16
YFR004W	RPN11	0,732	0,835	0,877	14	18	15	16
YBR023C	CHS3	0,71	0,81	0,877	3	4	3	2
YER127W	LCP5	0,823	0,939	0,876	7	9	8	8
YNL244C	SUI1	0,822	0,938	0,876	18	16	22	16
YPL126W	NAN1	0,806	0,92	0,876	17	25	16	24
YER168C	CCA1	0,741	0,846	0,876	3	8	5	9
YBR288C	APM3	0,804	0,918	0,876	1	1	1	1
YJL111W	CCT7	0,804	0,918	0,876	34	35	33	36
YGL169W	SUA5	0,739	0,844	0,876	1	7	1	7
YGR087C	PDC6	0,702	0,802	0,875	1	1	1	1
YLR017W	MEU1	0,812	0,928	0,875	6	16	9	14
YPL188W	POS5	0,791	0,904	0,875	5	9	5	10
YKL009W	MRT4	0,818	0,935	0,875	19	22	16	22
YJL039C	NUP192	0,752	0,86	0,874	8	5	9	4
YDL190C	UFD2	0,792	0,906	0,874	9	6	7	7
YNL075W	IMP4	0,791	0,905	0,874	8	11	7	9
YLL029W	FRA1	0,735	0,841	0,874	2	6	1	7
YPL078C	ATP4	0,754	0,864	0,873	26	24	30	24
YJL002C	OST1	0,724	0,83	0,872	8	10	9	10
YOL012C	HTZ1	0,743	0,852	0,872	3	3	4	4
YOR087W	YVC1	0,782	0,897	0,872	2	2	2	2
YHR158C	KEL1	0,761	0,873	0,872	19	34	22	32
YGR072W	UPF3	0,774	0,888	0,872	3	2	4	2
YLR364W	GRX8	0,825	0,947	0,871	6	9	7	9
YEL042W	GDA1	0,735	0,844	0,871	16	18	15	19
YGL153W	PEX14	0,745	0,856	0,870	8	9	8	8
YMR108W	ILV2	0,761	0,875	0,870	80	76	85	79
YKR082W	NUP133	0,78	0,897	0,870	15	19	18	17
YNL118C	DCP2	0,751	0,864	0,869	16	33	16	35
YGL057C	GEP7	0,723	0,832	0,869	1	4	2	3
YKL139W	CTK1	0,745	0,858	0,868	4	4	5	5
YEL040W	UTR2	0,572	0,659	0,868	9	6	8	7
YDL097C	RPN6	0,769	0,886	0,868	17	32	16	33
YML004C	GLO1	0,65	0,749	0,868	12	14	13	13
YDL225W	SHS1	0,792	0,913	0,867	20	32	22	31
YKL047W	YKL047W	0,764	0,881	0,867	7	5	6	4
YGR117C	YGR117C	0,626	0,722	0,867	5	6	4	7

YFL036W	RPO41	0,586	0,676	0,867	3	2	4	3
YDL192W	ARF1	0,832	0,96	0,867	6	12	8	12
YNR018W	AIM38	0,428	0,494	0,866	4	7	4	6
YPL211W	NIP7	0,849	0,98	0,866	12	19	12	16
YOL038W	PRE6	0,751	0,867	0,866	19	18	19	19
YKL079W	SMY1	0,781	0,902	0,866	2	3	2	3
YDR229W	IVY1	0,684	0,79	0,866	3	7	1	7
YMR236W	TAF9	0,729	0,842	0,866	2	5	4	3
YBR026C	ETR1	0,805	0,93	0,866	24	20	23	19
YKR066C	CCP1	0,862	0,996	0,865	16	30	14	30
YJR072C	NPA3	0,746	0,862	0,865	7	10	6	9
YGR145W	ENP2	0,712	0,823	0,865	15	18	19	21
YBR229C	ROT2	0,853	0,986	0,865	6	3	5	4
YMR128W	ECM16	0,813	0,94	0,865	13	10	11	11
YCR087C-A	YCR087C-A	0,819	0,947	0,865	7	6	7	6
YOR103C	OST2	0,799	0,924	0,865	3	3	3	3
YGR002C	SWC4	0,681	0,788	0,864	3	5	3	4
YEL038W	UTR4	0,821	0,95	0,864	7	14	6	12
YNL100W	AIM37	0,686	0,794	0,864	5	5	5	4
YGL073W	HSF1	0,78	0,903	0,864	8	9	7	9
YJR148W	BAT2	0,779	0,902	0,864	5	11	7	10
YHR025W	THR1	0,839	0,972	0,863	11	12	12	11
YDR258C	HSP78	0,856	0,992	0,863	28	59	32	55
YOL090W	MSH2	0,791	0,917	0,863	11	8	9	8
YKL178C	STE3	0,301	0,349	0,862	3	3	2	3
YML105C	SEC65	0,771	0,894	0,862	12	13	11	12
YER180C-A	SLO1	0,694	0,805	0,862	2	4	2	4
YDL098C	SNU23	0,768	0,891	0,862	4	5	7	5
YMR027W	YMR027W	0,805	0,934	0,862	13	16	15	16
YIL115C	NUP159	0,79	0,917	0,862	32	35	33	35
YNL051W	COG5	0,583	0,677	0,861	1	3	3	3
YGL112C	TAF6	0,676	0,785	0,861	2	4	2	5
YGR275W	RTT102	0,769	0,893	0,861	6	7	7	7
YAL059W	ECM1	0,749	0,87	0,861	16	11	17	10
YLR363W-A	YLR363W-A	0,58	0,674	0,861	7	4	6	4
YEL051W	VMA8	0,734	0,853	0,860	11	9	13	11
YNL035C	YNL035C	0,703	0,817	0,860	2	4	2	4
YHR216W	IMD2	0,775	0,901	0,860	11	15	10	15
YBR092C	PHO3	0,658	0,765	0,860	12	12	14	14

YHR012W	VPS29	0,786	0,914	0,860	2	6	4	6
YOL094C	RFC4	0,782	0,91	0,859	5	8	4	7
YHR089C	GAR1	0,817	0,951	0,859	13	15	11	14
YGL083W	SCY1	0,835	0,973	0,858	8	2	9	4
YDR167W	TAF10	0,691	0,806	0,857	6	8	7	8
YMR146C	TIF34	0,75	0,875	0,857	34	42	34	33
YGR210C	YGR210C	0,753	0,879	0,857	5	8	6	9
YER122C	GLO3	0,735	0,858	0,857	28	37	28	36
YOR006C	TSR3	0,794	0,927	0,857	4	3	3	3
YBR247C	ENP1	0,799	0,933	0,856	20	24	18	24
YBR109C	CMD1	0,785	0,917	0,856	8	12	10	13
YBR101C	FES1	0,654	0,764	0,856	11	16	9	17
YMR125W	STO1	0,729	0,852	0,856	15	10	17	13
YNL113W	RPC19	0,791	0,925	0,855	6	10	8	10
YGL004C	RPN14	0,749	0,876	0,855	3	3	3	4
YNR013C	PHO91	0,772	0,903	0,855	5	2	5	4
YPR190C	RPC82	0,742	0,868	0,855	9	12	8	11
YKL122C	SRP21	0,76	0,89	0,854	10	12	10	10
YBR095C	RXT2	0,687	0,805	0,853	6	6	7	6
YDL082W	RPL13A	0,779	0,914	0,852	2	3	3	4
YFR013W	IOC3	0,784	0,92	0,852	9	7	7	6
YOR176W	HEM15	0,824	0,967	0,852	12	18	11	19
YKL005C	BYE1	0,645	0,757	0,852	1	1	1	1
YML085C	TUB1	0,799	0,938	0,852	20	20	20	21
YCR009C	RVS161	0,776	0,911	0,852	12	13	14	12
YDR021W	FAL1	0,741	0,87	0,852	1	4	2	4
YJR135W-A	TIM8	0,837	0,983	0,851	13	6	10	5
YLR143W	YLR143W	0,683	0,803	0,851	4	8	6	9
YLL048C	YBT1	0,812	0,955	0,850	24	19	20	17
YBR057C	MUM2	0,498	0,586	0,850	1	4	1	5
YDL130W	RPP1B	0,718	0,845	0,850	13	8	14	9
YDL164C	CDC9	0,667	0,785	0,850	3	7	3	8
YOR287C	RRP36	0,672	0,791	0,850	4	4	7	4
YGR083C	GCD2	0,75	0,883	0,849	8	15	8	15
YPL218W	SAR1	0,755	0,889	0,849	7	9	6	8
YDR322C-A	TIM11	0,676	0,796	0,849	2	1	3	1
YCR026C	NPP1	0,623	0,734	0,849	1	1	1	1
YDL202W	MRPL11	0,78	0,919	0,849	6	13	4	13
YDR324C	UTP4	0,767	0,904	0,848	14	12	12	14

YHR094C	HXT1	0,479	0,565	0,848
YER049W	TPA1	0,773	0,912	0,848
YML079W	YML079W	0,816	0,963	0,847
YLR452C	SST2	0,603	0,712	0,847
YER148W	SPT15	0,557	0,658	0,847
YHR135C	YCK1	0,656	0,775	0,846
YER009W	NTF2	0,804	0,95	0,846
YLR248W	RCK2	0,773	0,914	0,846
YFL017C	GNA1	0,722	0,854	0,845
YHR112C	YHR112C	0,797	0,943	0,845
YDR362C	TFC6	0,757	0,896	0,845
YDL111C	RRP42	0,798	0,945	0,844
YGL050W	TYW3	0,727	0,861	0,844
YOL070C	NBA1	0,569	0,674	0,844
YNL103W	MET4	0,325	0,385	0,844
YNL271C	BNI1	0,777	0,922	0,843
YJR076C	CDC11	0,776	0,921	0,843
YOR039W	CKB2	0,763	0,906	0,842
YPR062W	FCY1	0,725	0,862	0,841
YMR033W	ARP9	0,808	0,961	0,841
YLR397C	AFG2	0,786	0,936	0,840
YML022W	APT1	0,775	0,923	0,840
YHL004W	MRP4	0,762	0,908	0,839
YDR394W	RPT3	0,746	0,889	0,839
YML034W	SRC1	0,777	0,926	0,839
YPL208W	RKM1	0,765	0,912	0,839
YML074C	FPR3	0,798	0,952	0,838
YHR056C	RSC30	0,709	0,846	0,838
YOR056C	NOB1	0,638	0,762	0,837
YLR450W	HMG2	0,715	0,854	0,837
YER019W	ISC1	0,509	0,608	0,837
YCR002C	CDC10	0,767	0,917	0,836
YBR215W	HPC2	0,693	0,829	0,836
YJR019C	TES1	0,735	0,88	0,835
YPR034W	ARP7	0,785	0,94	0,835
YFL046W	FMP32	0,747	0,895	0,835
YML036W	CGI121	0,781	0,936	0,834
YGL191W	COX13	0,428	0,513	0,834
YGR009C	SEC9	0,69	0,828	0,833

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3	9	5	11
7	10	6	7

YGL190C	CDC55	0,695	0,835	0,832	5	14	6	14
YDR485C	VPS72	0,769	0,924	0,832	1	3	1	3
YPL265W	DIP5	0,489	0,588	0,832	3	3	2	1
YOL052C	SPE2	0,802	0,965	0,831	6	13	6	9
YPL210C	SRP72	0,814	0,98	0,831	14	21	13	20
YKR007W	MEH1	0,745	0,897	0,831	5	2	5	4
YHR060W	VMA22	0,73	0,879	0,830	2	5	1	5
YJL192C	SOP4	0,753	0,907	0,830	3	3	4	4
YDR264C	AKR1	0,693	0,835	0,830	3	2	5	3
YPR175W	DPB2	0,687	0,828	0,830	5	3	5	3
YGL203C	KEX1	0,812	0,979	0,829	8	9	9	11
YAL023C	PMT2	0,739	0,891	0,829	11	7	13	9
YGR208W	SER2	0,738	0,89	0,829	8	12	7	13
YOR109W	INP53	0,785	0,947	0,829	10	16	11	16
YMR260C	TIF11	0,76	0,918	0,828	14	16	9	16
YIL064W	SEE1	0,59	0,714	0,826	2	3	2	3
YJL010C	NOP9	0,733	0,889	0,825	6	13	6	14
YBR159W	IFA38	0,768	0,932	0,824	9	9	9	9
YIR024C	YIR024C	0,747	0,907	0,824	4	4	3	4
YAL044W-A	YAL044W-A	0,69	0,838	0,823	4	3	5	3
YNL310C	ZIM17	0,677	0,823	0,823	3	4	2	5
YDL132W	CDC53	0,702	0,854	0,822	10	11	9	9
YHR133C	NSG1	0,748	0,91	0,822	6	4	6	3
YOL080C	REX4	0,746	0,908	0,822	4	4	5	5
YCL029C	BIK1	0,74	0,901	0,821	4	9	5	8
YNR003C	RPC34	0,613	0,747	0,821	6	9	5	9
YBL054W	TOD6	0,512	0,624	0,821	10	15	11	13
YNL155W	YNL155W	0,392	0,478	0,820	3	4	5	3
YER027C	GAL83	0,815	0,995	0,819	1	2	1	2
YOR303W	CPA1	0,655	0,8	0,819	9	11	8	12
YBL101C	ECM21	0,79	0,967	0,817	3	4	2	3
YPL084W	BRO1	0,663	0,812	0,817	12	12	11	14
YJL101C	GSH1	0,667	0,817	0,816	15	15	16	16
YMR259C	YMR259C	0,675	0,827	0,816	4	1	3	1
YDR047W	HEM12	0,758	0,929	0,816	8	6	7	6
YGR055W	MUP1	0,59	0,725	0,814	11	8	13	11
YDR539W	FDC1	0,592	0,728	0,813	6	4	7	4
YDR161W	YDR161W	0,795	0,978	0,813	9	11	11	11
YKL032C	IXR1	0,558	0,687	0,812	12	13	10	12

YKR069W	MET1	0,727	0,896	0,811	19	26	14	26
YHR058C	MED6	0,628	0,774	0,811	1	3	2	4
YDR494W	RSM28	0,679	0,837	0,811	6	8	8	10
YKL068W	NUP100	0,771	0,951	0,811	13	21	13	19
YBR267W	REI1	0,612	0,755	0,811	14	19	11	16
YGR104C	SRB5	0,808	0,997	0,810	1	1	1	1
YDL076C	RXT3	0,73	0,902	0,809	4	7	3	6
YOL126C	MDH2	0,474	0,586	0,809	2	6	3	6
YMR099C	YMR099C	0,749	0,926	0,809	18	28	21	28
YOL016C	CMK2	0,791	0,979	0,808	3	2	4	2
YOR036W	PEP12	0,675	0,836	0,807	6	2	6	2
YNL032W	SIW14	0,665	0,824	0,807	2	5	1	5
YFR040W	SAP155	0,718	0,89	0,807	2	1	3	1
YIL131C	FKH1	0,546	0,677	0,806	3	3	3	3
YKR080W	MTD1	0,673	0,835	0,806	8	14	12	15
YPR135W	CTF4	0,759	0,943	0,805	8	6	6	5
YLR051C	FCF2	0,621	0,772	0,804	4	7	5	7
YDR201W	SPC19	0,651	0,811	0,803	2	4	2	4
YER017C	AFG3	0,667	0,831	0,803	12	8	12	8
YOR367W	SCP1	0,557	0,694	0,803	4	9	3	9
YDL167C	NRP1	0,711	0,886	0,802	4	3	5	3
YBR049C	REB1	0,719	0,897	0,802	15	23	16	25
YDR098C	GRX3	0,677	0,845	0,801	4	7	4	7
YPR091C	YPR091C	0,789	0,986	0,800	13	6	9	6
YNL256W	FOL1	0,753	0,943	0,799	7	8	7	9
YMR285C	NGL2	0,767	0,961	0,798	4	4	5	4
YOR222W	ODC2	0,755	0,947	0,797	4	8	6	8
YGL213C	SKI8	0,768	0,964	0,797	6	5	6	5
YGL197W	MDS3	0,603	0,757	0,797	2	1	3	1
YDR333C	YDR333C	0,677	0,85	0,796	1	1	2	1
YDR373W	FRQ1	0,673	0,845	0,796	1	2	1	2
YGR169C-A	YGR169C-A	0,714	0,897	0,796	6	6	4	5
YJL140W	RPB4	0,658	0,827	0,796	6	8	5	8
YBL016W	FUS3	0,505	0,635	0,795	2	4	2	5
YGL187C	COX4	0,668	0,84	0,795	12	17	12	16
YOR265W	RBL2	0,755	0,95	0,795	9	11	9	11
YML103C	NUP188	0,781	0,984	0,794	7	7	6	8
YLR399C	BDF1	0,644	0,812	0,793	10	23	14	21
YNL091W	NST1	0,701	0,884	0,793	7	7	7	6

YMR131C	RRB1	0,712	0,898	0,793
YNL272C	SEC2	0,667	0,843	0,791
YNL062C	GCD10	0,744	0,941	0,791
YNL129W	NRK1	0,706	0,894	0,790
YOR014W	RTS1	0,623	0,789	0,790
YLR074C	BUD20	0,441	0,559	0,789
YEL024W	RIP1	0,615	0,78	0,788
YKR089C	TGL4	0,492	0,624	0,788
YGR020C	VMA7	0,7	0,888	0,788
YGL040C	HEM2	0,754	0,957	0,788
YPR011C	YPR011C	0,733	0,932	0,786
YKL114C	APN1	0,769	0,978	0,786
YDR145W	TAF12	0,706	0,898	0,786
YMR097C	MTG1	0,395	0,503	0,785
YJR024C	MDE1	0,556	0,71	0,783
YNL197C	WHI3	0,738	0,943	0,783
YNL031C	HHT2	0,711	0,909	0,782
YGL066W	SGF73	0,563	0,72	0,782
YPL016W	SWI1	0,776	0,996	0,779
YPL207W	TYW1	0,531	0,682	0,779
YOL067C	RTG1	0,723	0,929	0,778
YMR216C	SKY1	0,599	0,771	0,777
YHL014C	YLF2	0,705	0,908	0,776
YLR188W	MDL1	0,329	0,426	0,772
YIL083C	CAB2	0,678	0,879	0,771
YBR166C	TYR1	0,743	0,965	0,770
YHL020C	OPI1	0,421	0,547	0,770
YNL027W	CRZ1	0,723	0,94	0,769
YDR163W	CWC15	0,338	0,44	0,768
YAL015C	NTG1	0,633	0,826	0,766
YHR108W	GGA2	0,733	0,957	0,766
YOR043W	WHI2	0,738	0,964	0,766
YDL223C	HBT1	0,646	0,844	0,765
YDR397C	NCB2	0,598	0,783	0,764
YOL032W	OPI10	0,655	0,858	0,763
YKR057W	RPS21A	0,637	0,836	0,762
YGR092W	DBF2	0,564	0,741	0,761
YBR073W	RDH54	0,379	0,498	0,761
YKR023W	YKR023W	0,696	0,915	0,761

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1	2	1	3
9	7	7	7

YER134C	YER134C	0,684	0,904	0,757	7	12	9	12
YDL188C	PPH22	0,616	0,816	0,755	2	2	2	2
YBR030W	RKM3	0,682	0,904	0,754	2	1	1	2
YIR003W	AIM21	0,657	0,871	0,754	18	23	22	26
YIL138C	TPM2	0,666	0,883	0,754	10	14	12	15
YPL190C	NAB3	0,662	0,879	0,753	4	15	3	15
YER014W	HEM14	0,626	0,833	0,752	4	4	5	4
YLR407W	YLR407W	0,356	0,474	0,751	3	4	3	3
YHR083W	SAM35	0,675	0,899	0,751	3	3	4	3
YGR021W	YGR021W	0,745	0,993	0,750	3	4	3	4
YOR347C	PYK2	0,646	0,862	0,749	6	10	5	9
YML045W	YML045W	0,502	0,67	0,749	37	30	38	31
YER048W-A	ISD11	0,633	0,845	0,749	4	7	4	7
YNL281W	HCH1	0,652	0,871	0,749	16	19	17	18
YDL121C	YDL121C	0,538	0,719	0,748	3	2	2	2
YNR034W	SOL1	0,727	0,973	0,747	2	6	2	6
YPR058W	YMC1	0,458	0,613	0,747	1	2	1	3
YDL047W	SIT4	0,656	0,88	0,745	2	5	3	5
YJR057W	CDC8	0,706	0,949	0,744	1	4	1	4
YIL007C	NAS2	0,629	0,846	0,743	3	2	4	4
YBR140C	IRA1	0,697	0,938	0,743	2	1	2	2
YKL190W	CNB1	0,714	0,961	0,743	3	1	3	2
YDL207W	GLE1	0,736	0,992	0,742	4	2	4	2
YNL068C	FKH2	0,451	0,608	0,742	1	2	1	2
YJL201W	ECM25	0,693	0,935	0,741	2	2	2	1
YGR081C	SLX9	0,486	0,656	0,741	13	10	13	11
YKL135C	APL2	0,672	0,909	0,739	7	10	9	10
YGL110C	CUE3	0,683	0,926	0,738	3	2	4	2
YJL053W	PEP8	0,701	0,952	0,736	5	6	3	7
YBL035C	POL12	0,727	0,988	0,736	8	13	8	10
YPL191C	YPL191C	0,639	0,871	0,734	1	1	1	1
YNL265C	IST1	0,665	0,907	0,733	4	3	3	3
YHR028C	DAP2	0,648	0,885	0,732	3	7	3	7
YKL042W	SPC42	0,594	0,812	0,732	3	7	3	7
YEL003W	GIM4	0,68	0,93	0,731	3	7	3	7
YJL141C	YAK1	0,668	0,915	0,730	3	2	2	2
YDR061W	YDR061W	0,701	0,961	0,729	1	8	1	7
YKR024C	DBP7	0,683	0,937	0,729	5	11	8	11
YDR484W	VPS52	0,664	0,912	0,728	2	2	3	2

YGR138C	TPO2	0,38	0,522	0,728
YGL101W	YGL101W	0,595	0,82	0,726
YMR135C	GID8	0,679	0,937	0,725
YOR221C	MCT1	0,657	0,909	0,723
YGR028W	MSP1	0,552	0,764	0,723
YDR110W	FOB1	0,589	0,816	0,722
YNR037C	RSM19	0,543	0,753	0,721
YLR059C	REX2	0,62	0,861	0,720
YHR214C-B	YHR214C-B	0,562	0,781	0,720
YNR038W	DBP6	0,584	0,813	0,718
YDR262W	YDR262W	0,323	0,45	0,718
YHL007C	STE20	0,649	0,905	0,717
YLR119W	SRN2	0,543	0,76	0,714
YMR244C-A	YMR244C-A	0,659	0,923	0,714
YGR260W	TNA1	0,549	0,77	0,713
YKL195W	MIA40	0,679	0,957	0,710
YBL042C	FUI1	0,412	0,581	0,709
YML017W	PSP2	0,626	0,884	0,708
YGL017W	ATE1	0,523	0,739	0,708
YOL051W	GAL11	0,44	0,623	0,706
YML067C	ERV41	0,593	0,841	0,705
YJR161C	COS5	0,422	0,6	0,703
YBR233W	PBP2	0,626	0,892	0,702
YFL044C	OTU1	0,614	0,876	0,701
YEL043W	YEL043W	0,631	0,905	0,697
YIL112W	HOS4	0,669	0,967	0,692
YOL030W	GAS5	0,574	0,83	0,692
YBR068C	BAP2	0,298	0,431	0,691
YCR069W	CPR4	0,286	0,414	0,691
YGL181W	GTS1	0,536	0,781	0,686
YKR074W	AIM29	0,638	0,93	0,686
YPR169W	JIP5	0,533	0,777	0,686
YHL024W	RIM4	0,369	0,541	0,682
YDL150W	RPC53	0,523	0,768	0,681
YGL117W	YGL117W	0,562	0,828	0,679
YER103W	SSA4	0,557	0,821	0,678
YDR041W	RSM10	0,656	0,969	0,677
YFR025C	HIS2	0,645	0,953	0,677
YNL133C	FYV6	0,32	0,473	0,677

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YNL212W	VID27	0,575	0,852	0,675	7	12	11	13
YMR171C	EAR1	0,465	0,691	0,673	2	1	1	2
YLR033W	RSC58	0,654	0,974	0,671	5	11	5	10
YKL184W	SPE1	0,472	0,704	0,670	4	9	5	10
YLR086W	SMC4	0,646	0,966	0,669	3	2	3	2
YMR215W	GAS3	0,345	0,516	0,669	10	12	12	14
YEL066W	HPA3	0,639	0,956	0,668	3	6	5	5
YOR075W	UFE1	0,658	0,988	0,666	1	2	1	2
YDR038C	ENA5	0,498	0,748	0,666	5	8	8	8
YLR300W	EXG1	0,381	0,573	0,665	7	10	10	11
YDL102W	POL3	0,554	0,836	0,663	4	3	5	5
YGR250C	YGR250C	0,428	0,648	0,660	5	13	5	13
YGR252W	GCN5	0,474	0,72	0,658	4	7	4	10
YFL007W	BLM10	0,633	0,964	0,657	5	1	5	1
YNL262W	POL2	0,644	0,984	0,654	4	2	4	1
YIL038C	NOT3	0,534	0,818	0,653	5	15	7	16
YOR045W	TOM6	0,616	0,945	0,652	1	3	2	3
YDR059C	UBC5	0,496	0,765	0,648	3	3	4	3
YMR037C	MSN2	0,551	0,85	0,648	6	9	4	8
YNL110C	NOP15	0,628	0,971	0,647	7	9	7	8
YBR135W	CKS1	0,446	0,69	0,646	1	2	1	2
YGL005C	COG7	0,455	0,706	0,644	4	7	3	9
YLR052W	IES3	0,579	0,901	0,643	2	7	4	6
YLR006C	SSK1	0,463	0,724	0,640	1	3	2	3
YJR097W	JJJ3	0,477	0,748	0,638	1	2	2	2
YIL019W	FAF1	0,54	0,847	0,638	7	3	8	3
YBR007C	DSF2	0,432	0,682	0,633	2	3	2	5
YBL055C	YBL055C	0,594	0,939	0,633	3	8	2	8
YMR021C	MAC1	0,387	0,612	0,632	2	1	2	1
YFR047C	BNA6	0,55	0,87	0,632	2	6	1	7
YOL004W	SIN3	0,476	0,755	0,630	10	8	6	8
YBR200W	BEM1	0,535	0,849	0,630	4	11	4	11
YKL022C	CDC16	0,503	0,804	0,626	2	2	2	2
YMR098C	ATP25	0,476	0,761	0,625	3	1	4	1
YGL013C	PDR1	0,612	0,989	0,619	2	1	2	2
YDL067C	COX9	0,449	0,73	0,615	4	3	4	4
YBR042C	CST26	0,499	0,816	0,612	2	1	2	1
YPL107W	YPL107W	0,379	0,622	0,609	2	6	3	5
YGL094C	PAN2	0,575	0,952	0,604	1	1	1	1

YLR063W	YLR063W	0,566	0,938	0,603
YGR255C	COQ6	0,451	0,751	0,601
YCR057C	PWP2	0,558	0,934	0,597
YHR069C	RRP4	0,544	0,911	0,597
YDR349C	YPS7	0,578	0,968	0,597
YDL141W	BPL1	0,588	0,985	0,597
YBR197C	YBR197C	0,386	0,647	0,597
YBL068W	PRS4	0,563	0,95	0,593
YNR040W	YNR040W	0,541	0,915	0,591
YNL258C	DSL1	0,326	0,552	0,591
YHR030C	SLT2	0,58	0,983	0,590
YDR531W	CAB1	0,552	0,936	0,590
YER056C	FCY2	0,368	0,627	0,587
YDR246W	TRS23	0,482	0,824	0,585
YGL246C	RAI1	0,565	0,967	0,584
YIL135C	VHS2	0,465	0,798	0,583
YHR090C	YNG2	0,28	0,482	0,581
YLR092W	SUL2	0,39	0,674	0,579
YOL082W	ATG19	0,404	0,699	0,578
YJR053W	BFA1	0,471	0,818	0,576
YKL058W	TOA2	0,506	0,88	0,575
YKR090W	PXL1	0,435	0,762	0,571
YDL157C	YDL157C	0,404	0,711	0,568
YPL183C	RTT10	0,43	0,762	0,564
YNL260C	YNL260C	0,444	0,79	0,562
YBR212W	NGR1	0,39	0,701	0,556
YBR275C	RIF1	0,539	0,971	0,555
YOL069W	NUF2	0,386	0,709	0,544
YFR034C	PHO4	0,276	0,507	0,544
YOR085W	OST3	0,449	0,828	0,542
YKL063C	YKL063C	0,536	0,99	0,541
YJR091C	JSN1	0,392	0,729	0,538
YBR061C	TRM7	0,47	0,879	0,535
YJR142W	YJR142W	0,496	0,929	0,534
YIL140W	AXL2	0,417	0,785	0,531
YER040W	GLN3	0,496	0,959	0,517
YJR066W	TOR1	0,499	0,971	0,514
YDL219W	DTD1	0,453	0,893	0,507
YFR041C	ERJ5	0,363	0,725	0,501

2	3	2	3
3	5	3	5
4	8	4	7
5	8	8	7
1	1	1	1
4	7	6	8
2	3	2	2
7	9	7	8
3	3	4	4
3	2	3	2
5	8	3	6
3	3	2	2
4	5	4	4
2	4	5	5
2	7	2	7
3	1	3	1
1	1	1	2
15	14	19	17
2	1	3	1
2	1	2	1
2	2	1	2
1	3	2	2
5	3	2	2
5	3	6	4
1	5	2	4
3	5	4	5
3	2	1	2
1	3	1	4
2	3	4	2
3	1	4	1
3	2	2	2
2	1	2	1
3	4	3	4
1	3	2	4
5	3	5	3
1	1	1	1
2	2	2	2
4	8	4	8
3	3	3	4

YDL010W	GRX6	0,426	0,852	0,500	3	3	4	3
YMR291W	YMR291W	0,286	0,572	0,500	3	5	3	4
YOR037W	CYC2	0,47	0,941	0,499	1	1	2	2
YMR002W	MIC17	0,408	0,82	0,498	6	4	6	3
YBL005W-B	YBL005W-B	0,337	0,686	0,491	1	5	2	6
YGL084C	GUP1	0,447	0,912	0,490	1	1	2	1
YJL011C	RPC17	0,477	0,982	0,486	3	10	3	10
YER016W	BIM1	0,394	0,818	0,482	1	6	3	7
YMR313C	TGL3	0,34	0,706	0,482	1	1	2	1
YAL007C	ERP2	0,439	0,924	0,475	2	4	2	4
YMR059W	SEN15	0,205	0,437	0,469	1	2	2	2
YNR015W	SMM1	0,389	0,832	0,468	3	8	3	7
YLR093C	NYV1	0,371	0,797	0,465	2	1	2	1
YCR034W	FEN1	0,409	0,887	0,461	3	3	4	3
YOR017W	PET127	0,323	0,704	0,459	3	3	3	3
YMR113W	FOL3	0,404	0,886	0,456	2	3	1	3
YHR148W	IMP3	0,322	0,718	0,448	3	3	3	4
YIR005W	IST3	0,342	0,765	0,447	1	1	2	1
YLR395C	COX8	0,227	0,516	0,440	1	2	2	2
YAR014C	BUD14	0,247	0,581	0,425	2	3	1	2
YMR278W	PGM3	0,339	0,809	0,419	9	20	6	19
YIL157C	COA1	0,264	0,66	0,400	1	1	2	1
YBR038W	CHS2	0,329	0,841	0,391	1	1	2	1
YJL097W	PHS1	0,374	0,958	0,390	1	1	2	2
YDR510W	SMT3	0,318	0,821	0,387	8	12	9	12
YBL006C	LDB7	0,281	0,733	0,383	2	2	2	2
YNL090W	RHO2	0,368	0,972	0,379	2	1	2	1
YGL108C	YGL108C	0,313	0,829	0,378	2	2	1	2
YKL041W	VPS24	0,327	0,874	0,374	3	9	4	8
YPR067W	ISA2	0,325	0,876	0,371	2	2	1	2
YOL122C	SMF1	0,319	0,861	0,370	1	1	1	1
YMR121C	RPL15B	0,331	0,906	0,365	1	1	2	1
YGR129W	SYF2	0,244	0,7	0,349	4	7	1	6
YNR048W	YNR048W	0,296	0,85	0,348	1	1	1	1
YPL065W	VPS28	0,225	0,653	0,345	1	3	3	3
YML121W	GTR1	0,292	0,883	0,331	1	2	2	2
YLR120C	YPS1	0,303	0,932	0,325	4	3	5	3
YOL093W	TRM10	0,238	0,74	0,322	1	5	2	5
YIL114C	POR2	0,249	0,893	0,279	2	2	2	4

YJR026W	YJR026W	0,194	0,706	0,275
YDR092W	UBC13	0,202	0,772	0,262
YDR308C	SRB7	0,197	0,773	0,255
YBR087W	RFC5	0,221	0,895	0,247
YDR245W	MNN10	0,177	0,741	0,239
YMR289W	ABZ2	0,206	0,902	0,228
YPL019C	VTC3	0,223	0,982	0,227
YGL054C	ERV14	0,188	0,913	0,206
YPL214C	THI6	0,169	0,829	0,204
YPL007C	TFC8	0,162	0,819	0,198
YNL036W	NCE103	0,061	0,31	0,197
YGR177C	ATF2	0,114	0,709	0,161
YLR275W	SMD2	0,138	0,91	0,152
YDL128W	VCX1	0,081	0,536	0,151
YOR220W	RCN2	0,095	0,717	0,132
YDR200C	VPS64	0,074	0,712	0,104
YJR130C	STR2	0,093	0,963	0,097
YFL034C-A	RPL22B	0,062	0,824	0,075
YOL007C	CSI2	0,01	0,298	0,034
YPL038W	MET31	0,01	0,441	0,023
YLL012W	YEH1	0,01	0,494	0,020
YGR238C	KEL2	0,01	0,539	0,019
YPR184W	GDB1	0,01	0,54	0,019
YOR189W	IES4	0,01	0,545	0,018
YIL156W-B	YIL156W-B	0,01	0,581	0,017
YPL070W	MUK1	0,01	0,597	0,017
YMR052W	FAR3	0,01	0,609	0,016
YJL133W	MRS3	0,01	0,62	0,016
YPL124W	SPC29	0,01	0,676	0,015
YFR036W	CDC26	0,01	0,678	0,015
YMR288W	HSH155	0,01	0,691	0,014
YDR357C	CNL1	0,01	0,698	0,014
YDL043C	PRP11	0,01	0,7	0,014
YDR339C	FCF1	0,01	0,732	0,014
YGR007W	ECT1	0,01	0,733	0,014
YMR022W	UBC7	0,01	0,739	0,014
YLR363C	NMD4	0,01	0,758	0,013
YIL061C	SNP1	0,01	0,761	0,013
YDR480W	DIG2	0,01	0,766	0,013

1	1	1	1
1	2	2	2
2	4	2	4
3	5	2	5
2	2	2	3
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2	2	2	2
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4	5	2	5
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1	4	0	4
1	2	0	3
2	4	0	3
1	3	0	3
1	1	0	1
1	2	0	2

YDL042C	SIR2	0,01	0,785	0,013	1	5	0	3
YBR175W	SWD3	0,01	0,786	0,013	1	1	0	1
YNL083W	SAL1	0,01	0,798	0,013	1	1	0	1
YJL030W	MAD2	0,01	0,819	0,012	1	1	0	1
YCR015C	YCR015C	0,01	0,829	0,012	1	1	0	1
YPL046C	ELC1	0,01	0,84	0,012	2	2	0	2
YLR361C-A	YLR361C-A	0,01	0,844	0,012	1	2	0	2
YHR003C	YHR003C	0,01	0,845	0,012	1	4	0	4
YOR173W	DCS2	0,01	0,85	0,012	2	1	0	1
YGL156W	AMS1	0,01	0,851	0,012	1	1	0	1
YHR144C	DCD1	0,01	0,853	0,012	1	2	0	2
YGR158C	MTR3	0,01	0,86	0,012	1	5	0	5
YDL006W	PTC1	0,01	0,862	0,012	1	1	0	1
YLR078C	BOS1	0,01	0,864	0,012	1	1	0	1
YGR047C	TFC4	0,01	0,871	0,011	1	1	0	1
YGL164C	YRB30	0,01	0,887	0,011	2	4	0	4
YPL064C	CWC27	0,01	0,901	0,011	1	1	0	1
YPL170W	DAP1	0,01	0,908	0,011	1	5	0	5
YPR179C	HDA3	0,01	0,91	0,011	1	5	0	5
YER071C	YER071C	0,01	0,947	0,011	3	3	0	4
YDR416W	SYF1	0,01	0,961	0,010	1	1	0	1
YDR013W	PSF1	0,01	0,978	0,010	1	4	0	3

Appendix Table S5 - related to Figure EV2:

Gene Ontology Analysis of Cellular Processes and Cellular Components from 76 proteins with reduced turnover in Dsc mutants.

GO terms with less than 2 genes in the dataset were not reported.

GOID	GO term	Adjusted p-value (FDR)	Enrichment	Frequency	Genome Frequency	
GO:0006629	lipid metabolic process	0,099755517	2,57	9 out of 76 genes, 11.8%	296 of 6433 genes, 4.6%	NUS1,MSS4,LCB3,YEH2,ERG3,ORM2,FLC1,PIS1,ANT1
GO:0055085	transmembrane transport	0,109828283	2,53	7 out of 76 genes, 9.2%	234 of 6433 genes, 3.6%	PHO87,FTR1,MPC1,PEX4,SAM37,AQR1,PEX25
GO:0061024	membrane organization	0,109828283	2,40	8 out of 76 genes, 10.5%	282 of 6433 genes, 4.4%	DRS2,DNF2,UGO1,YPP1,NEO1,SAM37,DNF3,VPS16
GO:006399	tRNA metabolic process	0,123021299	2,33	5 out of 76 genes, 6.6%	182 of 6433 genes, 2.8%	QRI7,MSM1,AIR1,RPM2,MOD5
GO:007005	mitochondrion organization	0,109828283	2,24	7 out of 76 genes, 9.2%	265 of 6433 genes, 4.1%	OM14,QRI7,UGO1,COA3,RPM2,SAM37,BUL1
GO:006605	protein targeting	0,109828283	2,21	8 out of 76 genes, 10.5%	307 of 6433 genes, 4.8%	OM14,PEX4,YPP1,POM34,SPC3,SAM37,VPS16,PEX25
GO:0016192	vesicle-mediated transport	0,123021299	1,93	8 out of 76 genes, 10.5%	351 of 6433 genes, 5.5%	DRS2,DNF2,YPP1,NEO1,TVP18,ERP4,SLY41,VPS16
GO:007010	cytoskeleton organization	0,204495159	1,78	5 out of 76 genes, 6.6%	238 of 6433 genes, 3.7%	AIM14,SPC97,NDC80,POM34,SHE4
GO:007165	signal transduction	0,204495159	1,76	5 out of 76 genes, 6.6%	240 of 6433 genes, 3.7%	STE50,LRG1,KSP1,LCB3,IRA2
GO:0022618	ribonucleoprotein complex assembly	0,216699419	1,66	3 out of 76 genes, 3.9%	153 of 6433 genes, 2.4%	DRS2,PRP9,PRP8
GO:0030154	cell differentiation	0,22065489	1,59	3 out of 76 genes, 3.9%	160 of 6433 genes, 2.5%	MSS4,SHE4,SPO24
GO:0042592	homeostatic process	0,210336116	1,53	5 out of 76 genes, 6.6%	276 of 6433 genes, 4.3%	FTR1,YRF1-3,HMX1,ORM2,VHS3
GO:006461	protein complex assembly	0,210336116	1,50	5 out of 76 genes, 6.6%	282 of 6433 genes, 4.4%	SPC97,NDC80,COA3,SAM37,VPS16
GO:006397	mRNA processing	0,227818146	1,49	3 out of 76 genes, 3.9%	170 of 6433 genes, 2.6%	PRP9,PRP8,RPM2

GO:0051186	cofactor metabolic process	0,231789595	1,42	3 out of 76 genes, 3.9%	179 of 6433 genes, 2.8%	HMX1,VHS3,HEM4
GO:0071554	cell wall organization or biogenesis	0,24345729	1,28	3 out of 76 genes, 3.9%	198 of 6433 genes, 3.1%	LRG1,YEH2,FLC1
GO:0006464	cellular protein modification process	0,204495159	1,27	10 out of 76 genes, 13.2%	665 of 6433 genes, 10.3%	PSY4,STE50,NUS1,GCN2,PEX4,KSP1,UBP7,HIR3,BUL1,ALG5
GO:0000003	reproduction	0,210336116	1,27	7 out of 76 genes, 9.2%	467 of 6433 genes, 7.3%	DRS2,STE50,LRG1,DNF2,MSS4,DNF3,SHE4
GO:0048646	anatomical structure formation involved in morphogenesis	0,275924488	1,24	2 out of 76 genes, 2.6%	137 of 6433 genes, 2.1%	MSS4,SPO24
GO:0034655	nucleobase-containing compound catabolic process	0,275924488	1,16	2 out of 76 genes, 2.6%	146 of 6433 genes, 2.3%	AIR1,POL32
GO:0006950	response to stress	0,210336116	1,13	9 out of 76 genes, 11.8%	672 of 6433 genes, 10.4%	PSY4,STE50,HTL1,GCN2,RTT107,POL32,HMX1,ORM2,IRA2
GO:0048856	anatomical structure development	0,275924488	1,06	2 out of 76 genes, 2.6%	160 of 6433 genes, 2.5%	MSS4,SPO24
GO:0040007	growth	0,275924488	1,03	2 out of 76 genes, 2.6%	165 of 6433 genes, 2.6%	STE50,KSP1
GO:0007034	vacuolar transport	0,275924488	1,01	2 out of 76 genes, 2.6%	168 of 6433 genes, 2.6%	YPP1,VPS16
GO:0006351	transcription, DNA-templated	0,211197146	1,01	8 out of 76 genes, 10.5%	673 of 6433 genes, 10.5%	ROX3,HTL1,SAS4,HIR3,TOF2,RPM2,SIN4,MOD5
GO:0051276	chromosome organization	0,216699419	0,92	6 out of 76 genes, 7.9%	554 of 6433 genes, 8.6%	HTL1,SAS4,YRF1-3,HIR3,TOF2,MOD5
GO:0044281	small molecule metabolic process	0,211197146	0,88	7 out of 76 genes, 9.2%	675 of 6433 genes, 10.5%	PHO87,NUS1,MSM1,ERG3,IRA2,VHS3,ANT1
GO:00	cell cycle	0,211197146	0,79	6 out of 76	644 of 6433	PSY4,MSS4,GCN2,RTT107,HIR3,POM34

07049				genes, 7.9%	genes, 10.0%	
GO:0006259	DNA metabolic process	0,210336116	0,56	3 out of 76 genes, 3.9%	453 of 6433 genes, 7.0%	YRF1-3,RTT107,POL32
GO:0006412	translation	0,123021299	0,47	4 out of 76 genes, 5.3%	727 of 6433 genes, 11.3%	GCN2,MSM1,COA3,RPM2

GO term set: generic GO-slim: Components						
GOID	GO term	Adjusted p-value (FDR)	Enrichment	Frequency	Genome Frequency	
GO:0005777	peroxisome	0,158347118	3,34	3 out of 76 genes, 3.9%	76 of 6433 genes, 1.2%	PEX4,PEX25,ANT1
GO:0005886	plasma membrane	0,016735143	2,57	12 out of 76 genes, 15.8%	395 of 6433 genes, 6.1%	PHO87,YDL012C,DNF2,MSS4,FTR1,YPP1,YOR1,YEH2, DNF3,BUL1,AQR1,MSB1
GO:0005783	endoplasmic reticulum	0,010121824	2,34	17 out of 76 genes, 22.4%	615 of 6433 genes, 9.6%	DRS2,NUS1,DNF2,YSP2,AIM14,LCB3,ERG3,SPC3,HMX1,ORM2,DNF3,IRA2,ERP4,SLY41,FLC1,ALG5,PIS1
GO:0005794	Golgi apparatus	0,160654653	2,13	5 out of 76 genes, 6.6%	199 of 6433 genes, 3.1%	DRS2,NEO1,TVP18,DNF3,PIS1
GO:0005635	nuclear envelope	0,184478129	2,06	3 out of 76 genes, 3.9%	123 of 6433 genes, 1.9%	NUS1,POM34,HMX1
GO:0005768	endosome	0,200889434	1,78	3 out of 76 genes, 3.9%	143 of 6433 genes, 2.2%	YPP1,NEO1,VPS16
GO:0005730	nucleolus	0,200889434	1,29	5 out of 76 genes, 6.6%	329 of 6433 genes, 5.1%	CGR1,YGR283C,AIR1,TOF2,MOD5
GO:0005739	mitochondrion	0,184478129	1,15	16 out of 76 genes, 21.1%	1178 of 6433 genes, 18.3%	OM14,QRI7,LRG1,YSP2,UGO1,MPC1,MSM1,COA3,TOF2,YLR419W,RPM2,SAM37,IRA2,MSB1,MOD5,PIS1
GO:0043234	protein complex	0,184478129	1,11	15 out of 76 genes, 19.7%	1147 of 6433 genes, 17.8%	DRS2,ROX3,HTL1,SAS4,FTR1,SPC97,AIR1,NDC80,HIR3,POM34,SPC3,SAM37,SIN4,VHS3,VPS16
GO:0005623	cell	0,057243774	1,09	73 out of 76 genes, 96.1%	5680 of 6433 genes, 88.3%	DRS2,PSY4,ROX3,OM14,YPT10,STE50,HTL1,PHO87,YDL012C,PRP9,QRI7,NUS1,LRG1,DNF2,SAS4,MSS4,GCN2,YSP2,YDR415C,UGO1,FTR1,CGR1,MPC1,AIM14,PEX4,MSM1,YPP1,YOR1,YGR283C,YRF1-3, KSP1, RTT107, PRP8, SPC97, NEO1,AIR1,NDC80,UBP7,COA3,LCB3,POL32,HIR3,TO

						F2,POM34,YEH2,ERG3,SPC3,HMX1,ORM2,YLR419W,RPM2,SAM37,TVP18,DNF3,BUL1,AQR1,YNL234W,SIN4,IRA2,ERP4,SHE4,VHS3,CMR2,MSB1,MOD5,SLY41,VPS16,PEX25,FLC1,ALG5,SPO24,PIS1,ANT1
GO:0005773	vacuole	0,200889434	1,08	6 out of 76 genes, 7.9%	470 of 6433 genes, 7.3%	YPT10,YDR415C,AQR1,YNL234W,VPS16,FLC1
GO:0005622	intracellular	0,184478129	1,03	67 out of 76 genes, 88.2%	5511 of 6433 genes, 85.7%	DRS2,PSY4,ROX3,OM14,YPT10,STE50,HTL1,PRP9,QRI7,NUS1,LRG1,DNF2,SAS4,MSS4,GCN2,YSP2,YDR415C,UGO1,CGR1,MPC1,AIM14,PEX4,MSM1,YPP1,YGR283C,YRF1-3,KSP1,RTT107,PRP8,SPC97,NEO1,AIR1,NDC80,UBP7,COA3,LCB3,POL32,HIR3,TOF2,POM34,ERG3,SPC3,HMX1,ORM2,YLR419W,RPM2,SAM37,TVP18,DNF3,BUL1,AQR1,YNL234W,SIN4,IRA2,ERP4,SHE4,VHS3,CMR2,MSB1,MOD5,SLY41,VPS16,PEX25,FLC1,ALG5,PIS1,ANT1
GO:0005737	cytoplasm	0,184478129	1,00	51 out of 76 genes, 67.1%	4309 of 6433 genes, 67%	DRS2,PSY4,OM14,YPT10,STE50,QRI7,NUS1,LRG1,DNF2,GCN2,YSP2,YDR415C,UGO1,MPC1,AIM14,PEX4,MSM1,YPP1,YGR283C,KSP1,SPC97,NEO1,UBP7,COA3,LCB3,TOF2,ERG3,SPC3,HMX1,ORM2,YLR419W,RPM2,SAM37,TVP18,DNF3,AQR1,YNL234W,IRA2,ERP4,SHE4,VHS3,CMR2,MSB1,MOD5,SLY41,VPS16,PEX25,FLC1,ALG5,PIS1,ANT1
GO:0005654	nucleoplasm	0,239882312	0,97	3 out of 76 genes, 3.9%	263 of 6433 genes, 4.1%	ROX3,SAS4,SIN4
GO:0005840	ribosome	0,230706962	0,95	4 out of 76 genes, 5.3%	357 of 6433 genes, 5.5%	GCN2,AIM14,YPP1,YGR283C
GO:0005634	nucleus	0,184478129	0,92	24 out of 76 genes, 31.6%	2208 of 6433 genes, 34.3%	PSY4,ROX3,HTL1,PRP9,NUS1,SAS4,MSS4,CGR1,YPP1,YGR283C,YRF1-3,KSP1,RTT107,PRP8,AIR1,NDC80,POL32,HIR3,TOF2,POM34,HMX1,RPM2,SIN4,MOD5
GO:0005856	cytoskeleton	0,267366207	0,85	2 out of 76 genes, 2.6%	200 of 6433 genes, 3.1%	YPP1,SPC97
GO:0000228	nuclear chromosome	0,238726802	0,84	3 out of 76 genes, 3.9%	303 of 6433 genes, 4.7%	SAS4,NDC80,POL32
GO:0005828	cytosol	0,055746828	0,42	5 out of 76	1005 of 6433	GCN2,YPP1,IRA2,CMR2,MOD5

05829				genes, 6.6%	genes, 15.6%	
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Appendix Table S6. Yeast strains, plasmids and reagents

Antibodies	SOURCE	IDENTIFIER
Goat anti mouse IgG-Peroxidase	Sigma	Cat. # A4416; RRID:AB_258167
Goat anti rabbit IgG-Peroxidase	Sigma	Cat. # A0545; RRID:AB_257896
Mouse monoclonal anti PGK1 (22C5D8)	Invitrogen	Cat. # 459250; RRID:AB_2532235
Mouse monoclonal anti GFP (IgG1K, clones 7.1 and 13.1)	Roche Diagnostics	Cat. # 11814460001; RRID:AB_390913
Mouse monoclonal anti FLAG M2	Sigma	Cat. # F3165; RRID:AB_259529
Mouse monoclonal anti HA (12CA5)	Abcam	Homemade hybridoma supernatant, lot 20081201
Mouse monoclonal anti ubiquitin (P4D1)	Santa Cruz	Cat. # sc-8017; RRID:AB_628423
Mouse monoclonal anti Ypk1 phospho-T662	Gift from Loewith lab	(Berchtold et al., 2012)
Goat polyclonal anti-Ypk1	Santa Cruz	Cat. # yl15; RRID:AB_793265
Rabbit polyclonal anti-Orm2, generated against N-terminal peptide MIDRTKNESPAFEESPLTP	Gift from Howard Riezman	This study
Rabbit polyclonal anti-Lcb1	Gift from Teresa Dunn	(Gable, Slife et al., 2000)
Rabbit polyclonal anti-Lcb2	Gift from Teresa Dunn	(Gable et al., 2000)
Rabbit polyclonal anti-Tul1	Gift from Peter Espenshade	(Tong et al., 2014)
Rabbit polyclonal anti-Ubx3	Gift from Peter Espenshade	(Tong et al., 2014)
Rabbit polyclonal anti-Dsc2	Gift from Peter Espenshade	(Tong et al., 2014)
Rabbit polyclonal anti-Dsc3	Gift from Peter Espenshade	(Tong et al., 2014)
Chemicals, Peptides, and Recombinant Proteins	SOURCE	IDENTIFIER
[13C6,15N2]-L-lysine	Sigma	Cat. # 608041
anti-Flag magnetic beads M2	Sigma	Cat. # M8823; RRID:AB_2637089
3xFLAG peptide	Sigma	Cat. # F4799
Phos-tag acrylamide	Wako	304-93521
MG-132	Sigma	Cat. # M7449
Cycloheximide	Sigma	Cat. # C7698
Commercial Assays	SOURCE	IDENTIFIER
TAQman gene expression assay for ORM2	Thermo Scientific	Cat. # Sc04149509_s1
TAQman gene expression assay for PGK1	Thermo Scientific	Cat. # Sc04104844_s1
RNeasy Mini kit	Qiagen	Cat. # 74104
Revert Aid First strand cDNA synthesis kit	Thermo	Cat. # K1622
Yeast strains:	SOURCE	IDENTIFIER

Y7092 wildtype (<i>MAT</i> α <i>can1::STE2pr-Sp_HIS5 lyp1Δ leu2Δ ura3Δ his3Δ met15Δ cyh2</i>)	(Tong et al., 2001)	Y7092
Y7092 <i>vps4::NatR +p(CEN; LEU2; YPT53pr-URA3)</i>	this study	OSY162
BY4743 <i>Mat.A/alpha xxx::KanMX4/XXX</i>	(Buser et al., 2016); Peter lab	BY4743 deletion strain collection
SEY6210 wildtype (<i>MAT</i> α <i>leu2-3, 112 ura3-52 his3-200 trp1-901 lys2-801 suc2-9</i>)	(Robinson, Klionsky et al., 1988)	SEY6210
SEY6210.1 wildtype (<i>MAT</i> α <i>leu2-3, 112 ura3-52 his3-200 trp1-901 lys2-801 suc2-9</i>)	(Robinson et al., 1988)	SEY6210.1
SEY6210 <i>vps4::TRP1</i>	(Babst et al., 1997)	MBY3
SEY6210.1 <i>vps4::TRP1</i>	(Babst et al., 1997)	MBY4
SEY6210.1 <i>tul1::HIS3</i>	this study	SSY17
SEY6210.1 <i>vps4::TRP1, tul1::HIS3</i>	this study	SSY31
SEY6210.1 <i>orm1::HIS3</i>	this study	OSY510
SEY6210 <i>orm1::HIS3</i>	this study; courtesy of C. Stefan	YSC570
SEY6210 <i>orm2::TRP1</i>	this study; courtesy of C. Stefan	YSC580
SEY6210.1 <i>orm2::TRP1</i>	this study	YWY005
SEY6210.1 <i>orm2::TRP1, atg8::HIS3</i>	this study; (Müller, Schmidt et al., 2015)	YWY003
SEY6210 <i>orm2::TRP1, pdr5::HIS3</i>	this study	YWY006
SEY6210.1 <i>orm2::TRP1, hrd1::HIS3</i>	this study	YWY012
SEY6210.1 <i>orm2::TRP1, doa10::HIS3</i>	this study	YWY014
SEY6210.1 <i>orm2::TRP1, doa10::HIS3, hrd1::HIS3</i>	this study	YWY020
SEY6210.1 <i>orm2::TRP1, tul1::HIS3</i>	this study	YWY027
SEY6210.1 <i>vps4::TRP1, orm2::TRP1, tul1::HIS3</i>	this study	YWY029
SEY6210.1 <i>orm2::TRP1, pep4::LEU2</i>	this study; (Bankaitis & Emr, 1986)	YWY032
SEY6210.1 <i>ubx3::HIS3</i>	this study	YWY042
SEY6210.1 <i>dcs2::HIS3</i>	this study	YWY045
SEY6210.1 <i>dsc3::HIS3</i>	this study	YWY046
SEY6210 <i>orm2::TRP1, ubx3::HIS3</i>	this study	YWY047
SEY6210.1 <i>vps4::TRP1, ubx3::HIS3</i>	this study	YWY048
SEY6210 <i>orm2::TRP1, dsc3::HIS3</i>	this study	YWY055
SEY6210.1 <i>orm2::TRP1, dsc2::HIS3</i>	this study	YWY056
SEY6210 <i>tul1::HIS3, pep4::LEU2</i>	this study; (Bankaitis & Emr, 1986)	YWY072
SEY6210.1 <i>orm2::TRP1, doa10::HIS3, hrd1::HIS3, asi1::KanMX4</i>	this study	YWY129
SEY6210.1 <i>vps4::TRP1, orm2::TRP1</i>	this study	VBY51
SEY6210 <i>pep4::LEU2</i>	this study; (Bankaitis & Emr, 1986)	OSY454
SEY6210.1 <i>orm2::TRP1, tul1::HIS3, pdr5::HIS3</i>	this study	OSY721
SEY6210.1 <i>orm2::TRP1, YIP(TRP1)-TPI1pr-pre(KAR2)-dsRedExpress2-HDEL</i>	this study	OSY724
SEY6210.1 <i>orm2::TRP1, tul1::HIS3, YIP(TRP1)-TPI1pr-pre(KAR2)-dsRedExpress2-HDEL</i>	this study	OSY725
SEY6210 <i>orm2::TRP1, tul1::HIS3, Vps4-3xHA-mCherry::TRP1</i>	this study; (Adell et al., 2017)	OSY727
SEY6210 <i>orm1::HIS3, tul1::HIS3</i>	this study	OSY731
SEY6210.1 <i>orm1::HIS3, tul1::HIS3</i>	this study	OSY732
SEY6210.1 <i>orm2::TRP1, tul1::HIS3, YIP(URA3)-SEC7pr-SEC7-6xmCherry</i>	this study; (Day et al., 2018)	OSY738
SEY6210.1 <i>tul1::HIS3; Vps4-3xHA-eGFP::TRP1, YIP(URA3)-SEC7pr-SEC7-6xmCherry</i>	this study; (Day et al., 2018)	OSY751
SEY6210.1 <i>orm2::TRP1, vld1::HIS3</i>	this study	MWY010

SEY6210.1 <i>orm2::TRP1, gld1::HIS3</i>	this study	MWY013
SEY6210.1 <i>cdc48-3, orm2::TRP1, pdr5::HIS3</i>	this study; (Moir, Stewart et al., 1982)	OSY715
SEY6210.1 <i>cdc48-3, orm2::TRP1</i>	this study; (Moir et al., 1982)	OSY720
YP102 wildtype (<i>ura3-52 lys2-801 ade2-101 his3Δ200 leu2-Δ1</i>)	(Ghislain et al., 1993)	OSY343
YP102 <i>cim3-1</i>	(Ghislain et al., 1993)	DTY551
BY4742 wildtype (<i>MATalpha his3Δ 1; leu2Δ 0; lys2Δ 0; ura3Δ</i>)	(Brachmann, Davies et al., 1998)	BY4742
BY4742 <i>tsc3::KanMX4</i>	Open Biosystems	OSY737
SEY6210.1xBY4742 <i>tsc3::KanMX4; tul1::HIS3; trp1Δ</i>	this study	OSY746
TB50 <i>MATalpha; tor1-1, avo3Δ1274-1430::hphMX6</i>	(Gaubitz et al., 2015)	MPR8
SEY6210.1 <i>orm2::TRP1 SEC13-WT -T(ADH1)::HIS3</i>	this study	OSY809
SEY6210.1 <i>orm2::TRP1 sec13-4 -T(ADH1)::HIS3</i>	this study	OSY810
SEY6210.1 <i>orm2::TRP1, sec13-4 -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY821
SEY6210.1 <i>orm2::TRP1, SEC13-WT -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY826
SEY6210 <i>tul1::HIS3; orm2::TRP1; SEC13-WT -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY828
SEY6210.1 <i>tul1::HIS3; orm2::TRP1; sec13-4 -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY829
SEY6210.1 <i>sec13-4 -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY823
SEY6210.1 <i>SEC13-WT -T(ADH1)::HIS3; YIP(TRP1)-P(TPI1)-pre(Kar2)-dsRedExpress2-HDEL</i>	this study	OSY824
Primer for gene knock out / knock in	Used for strain:	Primer name:
CTAATTCAGGCAAAAAAGGAAAGTCCTACAGCAAAAAGAGGCAAAAAGTACAGTCGGATCCCCGGGTAAATTAA	SSY17	TUL1_KO_F
TACAAGGTCGATTTTACCTAACAGGGTGCTTGTAATAT TGGAATTCGAGCTCGTTTAAAC	SSY17	TUL1_KO_R
CCTCATCAATCGGCTTGACTGCGATTTAAACATACCCTTTAAACCGGATCCCCGGGTAAATTAA	YWY042	UBX3-KO-F
CTTTAGAATAAACGTTTGGAGATGACTATTTTTGAAATTCCTTGAATTCGAGCTCGTTTAAAC	YWY042	UBX3-KO-R
GGGAGAGAAAGTCAACGACATAAAAAGCAAACACAATAGTCTACAAATACGGATCCCCGGGTAAATTAA	YWY045	DSC2-KO-F
CCGTTGCTATGTTTATTTGTTTATGTAGGTATATGCTGATATAAAGAATTCGAGCTCGTTTAAAC	YWY045	DSC2-KO-R
CCAAGCAAAGAGAGAGGTGAAAGGCAGCATACATTGATAAAATTCGGATCCCCGGGTAAATTAA	YWY046	DSC3-KO-F
CATTATTGTACATGAAAACGACATCTAATCGCCTCACTAGAATTCGAGCTCGTTTAAAC	YWY046	DSC3-KO-R
AATTGCAATTTGTAAGAGAAGGGGAGAAAGACAAAATAATAATCGGATCCCCGGGTAAATTAA	YWY012	HRD1-KO-F
GGCTGAGATTGATCAGACTCAACCGTGTTTTTCATCTGTAGGATCGCGAATTCGAGCTCGTTTAAAC	YWY012	HRD1-KO-R
GCCAAGAGTACCACTAATTGAATCAAAGAGACTAGAAGTGTGACGGATCCCCGGGTAAATTAA	YWY014	DOA10-KO-F
CGTGGTTAATTCTGGAGTTGCTGACTGATCATAACCATAAATCGAATTCGAGCTCGTTTAAAC	YWY014	DOA10-KO-R
CTTAATTTTATCTGGGTTTTTTTCTTCTTTTTTACAAAGAAACTATGCTAAGAATCGGATCCCCGGGTAAATTAA	YWY129	ASI1-KO-F

CCCAAACGAAAAACCTCTTTTAGATACCATGCAAAAGT TCTTAAACTAGAATTCGAGCTCGTTTAAAC	YWY129	ASI1-KO-R
GGCTTAGATGACAAGCTAATACAGAAAGGGAAAGGAGC AGGGCATCGGAAGGAACGGATCCCCGGGTAAATTAA	MWY010	VLD1-KO-F
CCGTTCTTTTCATTTTGGTAATTTTTTTTCTTTTCCTT TCTTGAATGAATTCGAGCTCGTTTAAAC	MWY010	VLD1-KO-R
CCATTAGCAGGCCAAAAGCAAACCTAATCTATGTTTTCA ATAAGGCCAATATAATACGGATCCCCGGGTAAATTAA	MWY013	GLD1-KO-F
GCCGATAACAGTAATATGCATTACCCCTTATGGACTAC ATATATATACTAGAATTCGAGCTCGTTTAAAC	MWY013	GLD1-KO-R
GCACCTTAGAAGGTCACAGCGATTGGG	OSY809 / OSY810	SEC13-F
GCCTGTTCTATTGAAGAAAAACAGTCTTATATATCTAT TGTATATACGTCGATTATTTTTGTTCGCGAATTCGAGC TCGTTTAAAC	OSY809 / OSY810	SEC13utr-LG-R
Primer for plasmid cloning	Used for plasmid(s):	Primer name:
cgcTCTAGAGGGTCCCCGGCATTTGAGG	pOS129; pVB17; pOS128; pOS143; pYW006 and all derivatives thereof	ORM2_XbaI_F
gcgGAATTCCCCTAGAGGCAAGATTGTAGCTGAAGCTG G	pOS129; pVB17; pOS128; pOS143; pYW006 and all derivatives thereof	ORM2_EcoRI_R
CCATTATAAAAACGCATAAGAAACAGTTTCATCATGGA CTACAAAGACCATGACGG	pOS129	Prom(ORM2)- FLAG_F
CCGTTCATGGTCTTTGTAGTCCATGATGAAACTGTTTCT TATGCGTTTTTATAATGG	pOS129	Prom(ORM2)- FLAG_R
CGATTACAAGGATGACGATGACAAGGGATCCATGATTG ACCGCACTAAAACGAATCTCC	pOS129	FLAG-ORM2_F
GGAGATTCGTTTTTTAGTGCGGTCAATCATGGATCCCTT GTCATCGTCATCCTTGTAAATCG	pOS129	FLAG-ORM2_R
CCAGTGACCGACCATAGGAGAAGACGGGCAGCCGCCGT AATATCACATGTGGAACAGGAAACC	pYW001; pYW008	ORM2_AAA_F
GGTTTCCTGTTCCACATGTGATATTACGGCGGCTGCCC GTCTTCTCCTATGGTCGGTCACTGG	pYW001; pYW008	ORM2_AAA_R
CCAGTGACCGACCATAGGAGAAGACGGGACGACGACGT AATATCACATGTGGAACAGGAAACC	pYW002; pYW009	ORM2_DDD_F
GGTTTCCTGTTCCACATGTGATATTACGTCGTCGTCCC GTCTTCTCCTATGGTCGGTCACTGG	pYW002; pYW009	ORM2_DDD_R
GGATCCATGATTGACCGCACTAGAAACGAATCTCCAGC TTTTG	pYW014	Orm2-K6R-F
CAAAAGCTGGAGATTCGTTTCTAGTGCGGTCAATCATG GATCC	pYW014	Orm2-K6R-R
CCAATGTGTCTAACCTGAGACCATTCCTTCTCAAAGC AACAGAATATCCACTCCAGTGACC	pYW015	Orm2-K25R-K33R-F
GGTCACTGGAGTGGATATTCTGTTGCTTTGAGAAGGGA ATGGTCTCAGGTTAGACACATTGG	pYW015	Orm2-K25R-K33R-R
CCCTGCTCAAGCCAACAAAATATCCGCTCCAGTGACCG ACCATAGGAGAAGACGG	pOS148	ORM2_29-31-36A-F
CACTGGAGCGGATATTTTGTGGCTTGAGCAGGGAATG GTTTCAGGTTAGACAC	pOS148	ORM2_29-31-36A-R
GAAGAGGCTCCGCTTGCCCCCAATGTGGCTAACCTGAA ACCATTCCCTGCTCAAGCC	pOS148	ORM2_15-18-22A-F
CAGGTTAGCCACATTGGGGGCAAGCGGAGCCTCTTCAA AAGCTGGAGCTTCG	pOS148	ORM2_15-18-22A-R

CGAAGCTCCAGCTTTTGAAGAGTCTCCGCTTACC	pOS148	ORM2_S9A-F
GCTGGAGCTTCGTTTTTAGTGCGGTCAATCATGGATCC	pOS148	ORM2_S9A-R
cgcTCTAGAGCGCGTAGGGCCGCCAGCG	pOS127	ORM1_XbaI_F
cgcGAATTCGAAGCAGTACGTGAAATAGTGC	pOS127	ORM1-EcoRI_R
cgcCTCGAGGCGCGTAGGGCCGCCAGCG	pYW005	ORM1_XhoI_F
cgcGAGCTCGAAGCAGTACGTGAAATAGTGC	pYW005	ORM1-SacI_R
cgcgagctcCCCTGACGTCCTGATCGTGCCC	pOS166	Sac1-SacI-F2
cgcgcggccgcGGGCGAACGCCTTCATGTATAGTAGCC	pOS166	Sac1-NotI-R2
cgcGAGCTCGTACTGTTCATCATCGTTTGC	pYW032	TUL1-SacI-F
gcgACTAGTGGAGTTGGAGCGATTTAG	pYW032	TUL1-SpeI-R
cgcGAGCTCCGGAAGTTCATACAGTTGC	pYW052	SacI-Ubx3-F
cgcACTAGTGTGAGTTAGATCAATTTTGGC	pYW052	SpeI-Ubx3-R
GTACGAGCTCGCAGTTATAACCGCTATAAGCAATTG	pSM52	A_Sec61-mCherry_FWD
CTCACGTTAATTAACCCGGGGATCCGCATCAAATCAGAAATCCTGGAAC	pSM52	A_Sec61-mCherry_REV
GATGCGGATCCCCGGGTAAATTAACGTGAGCAAGGGCGAGGAGGATAAC	pSM52	B_Sec61-mCherry_FWD
TCACTAGTGATCTTACTTGTACAGCTCGTCCATG	pSM52	B_Sec61-mCherry_REV
CGCAAGCTTGCACCTTAGAAGGTCACAGCGATTGGG	pOS239; pOS241	SEC13-HindIII-F
CGCGGCGCGCCTCCCTTCAAATTCGTCGATAGACTCATTTGCATTC	pOS239; pOS241	SEC13-AscI-R
CCAGTTGGTCTTTGTCAGACAATGTACTAGCTCTTTCCGGTGGCG	pOS241	sec13-4_F
GAGCTAGTACATTGTCTGACAAAGACCAACTGGCTCTCATAAAACATC	pOS241	sec13-4_R
Plasmids	SOURCE	IDENTIFIER
empty centromer vector <i>HIS3</i>	(Sikorski & Hieter, 1989)	pRS413
empty centromer vector <i>TRP1</i>	(Sikorski & Hieter, 1989)	pRS414
empty centromer vector <i>LEU2</i>	(Sikorski & Hieter, 1989)	pRS415
empty centromer vector <i>URA3</i>	(Sikorski & Hieter, 1989)	pRS416
pRS415 - <i>VPS4</i>	(Müller et al., 2015)	pOS014
pRS416 - 3xHA-ORM2 (endogenous 5' and 3')	this study	pOS128
pRS416 - 3xFLAG-ORM2 (endogenous 5' and 3')	this study	pOS129
pRS416 - 3xFLAG-ORM2 ^{S9A, S15A, T18A, S22A, S29A, S31A, T36A} (endogenous 5' and 3')	this study	pOS148
pRS415 - HA-SAC1 (endogenous 5' and 3')	this study	pOS166
pRS415 - GFP-ORM2 (endogenous 5' and 3')	this study	pOS173
pRS416 - GFP-ORM2 ^{K25R, K33R, S46A, S47A, S48A} (endogenous 5' and 3')	this study	pOS242
pRS416 - GFP-ORM2 ^{K25R, K33R, S46D, S47D, S48D} (endogenous 5' and 3')	this study	pOS243
pFA6a - SEC13-WT-C-term. fragment-T(ADH1)::HIS3 template plasmid for generation of OSY809 (SEC13 WT) and derivatives thereof	this study	pOS239
pFA6a - sec13-4-C-term. fragment-T(ADH1)::HIS3 template plasmid for generation of OSY810 (SEC13 WT) and derivatives thereof	this study	pOS241
pRS416 - ORM2 (endogenous 5' and 3')	this study	pVB17
pRS416 - 3xFLAG-ORM2 ^{S46A, S47A, S48A} (endogenous 5' and 3')	this study	pYW001

pRS416 - 3xFLAG-ORM2 ^{S46D, S47D, S48D} (endogenous 5' and 3')	this study	pYW002
pRS416 - GFP-ORM1 (endogenous 5' and 3')	this study	pYW005
pRS416 - GFP-ORM2 (endogenous 5' and 3')	this study	pYW006
pRS416 - GFP-ORM2 ^{S46A, S47A, S48A} (endogenous 5' and 3')	this study	pYW008
pRS416 - GFP-ORM2 ^{S46D, S47D, S48D} (endogenous 5' and 3')	this study	pYW009
pRS415- ^{ADH1} Ub-P-GFP	this study; (Müller et al., 2015)	pYW010
pRS416 - 3xFLAG-ORM2 ^{K6R} (endogenous 5' and 3')	this study	pYW014
pRS416 - 3xFLAG-ORM2 ^{K25R, K33R} (endogenous 5' and 3')	this study	pYW015
pRS416 - 3xFLAG-ORM2 ^{K25R, K33R, S46A, S47A, S48A} (endogenous 5' and 3')	this study	pYW026
pRS416 - 3xFLAG-ORM2 ^{K25R, K33R, S46D, S47D, S48D} (endogenous 5' and 3')	this study	pYW027
pRS416 - GFP-ORM2 ^{K25R, K33R} (endogenous 5' and 3')	this study	pYW028
pRS416 - 3xFLAG-ORM2 ^{K25R} (endogenous 5' and 3')	this study	pYW030
pRS416 - 3xFLAG-ORM2 ^{K33R} (endogenous 5' and 3')	this study	pYW031
pRS415 - TUL1 (endogenous 5' and 3')	this study	pYW032
pRS415 - UBX3 (endogenous 5' and 3')	this study	pYW052
pRS415 - SEC61-eGFP (endogenous 5' and 3')	this study	pSM52
pRS415 - VPS4-3xHA-eGFP (endogenous 3' and 5')	this study; (Adell et al., 2017)	pSS37
pRS415 - P ^{TDH3} -mCherry-CPS1(2-270)	(Adell et al., 2017)	pC29
YIP(URA3)-SEC7pr-SEC7-6xmCherry	(Day et al., 2018)	YIplac211-SEC7-mCherry2Bx6; RRID:Addgene_105267
YIP(TRP1)-TPI1pr-pre(KAR2)-dsRedExpress2-HDEL	Benjamin Glick, unpublished	YIPlac204TKC-DsRed-Express2-HDEL; RRID:Addgene_21770
Software and Algorithms	SOURCE	IDENTIFIER
Photoshop CS5	Adobe	Version 12.0.4x64; RRID:SCR_014199
Illustrator CS5.1	Adobe	Version 15.1.0; RRID:SCR_010279
Proteome Discoverer 2.2	Thermo Scientific	Version 2.2; RRID:SCR_014477
Excel for Mac	Microsoft	Version 16.16.2; RRID:SCR_016137
ImageJ2	(Rueden et al., 2017)	Version 2.0.0-rc49/1.51h; RRID:SCR_003070
Fiji	(Schinderlin et al., 2012)	Version 1.0
Huygens Professional	Scientific Volumes Imaging	Version 18.19
Visi View	Visitron	Version 2.1.4
LasX	Leica	Version 3.5.2.18963