

Table 1

Overlap of significantly regulated genes between the T3-induced and spontaneous metamorphosis microarrays*

	Overlap for Up-regulation			Overlap for Down-regulation		
	Day 1 T3	Day 3 T3	Day 6 T3	Day 1 T3	Day 3 T3	Day 6 T3
Stage 58	8.3% 36 5.7%	10.0% 133 20.9%	8.8% 210 33.0%	6.3% 32 9.3%	6.2% 95 27.7%	5.9% 102 29.8%
Stage 61	25.5% 110 3.6%	36.7% 489 16.2%	37.8% 898 29.7%	18.2% 93 5.1%	25.9% 398 21.6%	30.5% 532 28.9%
Stage 66	14.6% 63 4.6%	17.3% 231 16.9%	17.6% 417 17.6%	9.0% 46 7.8%	9.5% 14 24.6%	7.9% 13 23.3%

*Common regulated genes identified in the T3-induced microarray and during natural development are represented in the gray box. The percentage of those regulated genes are shown after correcting for common genes present in the microarray platforms used in the two studies.

Table 2A. Larval specific genes with ≤ 0.1 fold expression at stage 66 vs stage 53

	GenBank	Gene	Gene Name	Fold change
1	AY762616	UGDH	UDP-glucose dehydrogenase (mucin)	0.07
2	BC042305	SLC22A6	Solute carrier family 22 (organic anion transporter)	0.07
3	BC044073	ISYNA1	Inositol-3-phosphate synthase 1	0.03
4	BC044116	KRT8	Keratin 8	0.00
5	BC056840	LTF	Lactotransferrin	0.07
6	BC060496	CYP3A4	Cytochrome P450, family 3, subfamily A, polypeptide 4	0.07
7	BC072842	TRIM2	Tripartite motif-containing 2	0.07
8	BC074222	SLC16A1	Solute carrier family 16	0.04
9	BC081224	TXNRD1	Thioredoxin reductase 1	0.08
10	BC082530	SLC34A3	Solute carrier family 34 (sodium phosphate)	0.03
11	BC085055	ANPEP	Alanyl (membrane) aminopeptidase	0.02
12	BC086270	GCNT3	Glucosaminyl (N-acetyl) transferase 3	0.10
13	BJ057663	AIFM2	Apoptosis-inducing factor, mitochondrion-associated, 2	0.05
14	BX844453	DIO1	Deiodinase, iodothyronine, type I	0.09
15	CK799950		<i>Transcribed locus</i>	0.05
16	DQ096886	CA14	Carbonic anhydrase 14	0.08
17	L20816	PLCB3	Phospholipase C, beta 3	0.09

Table 2B. Adult specific genes with ≥ 10 fold expression at stage 66 vs stage 53

	GenBank	Gene	Gene Name	Fold change
1	AF170337		<i>Transcribed locus</i>	24.15
2	AY260728	SLC5A8	Solute carrier family 5 (iodide transporter)	58.97
3	BC043635	ARG1	Arginase	20.07
4	BC045220	MATN2	Matrilin 2	12.53
5	BC053814	INMT	Indolethylamine N-methyltransferase	24.27
6	BC054155		<i>Transcribed locus</i>	53.57
7	BC054202		<i>Transcribed locus</i>	18.55
8	BC054284	HSD11B1	Hydroxysteroid (11-beta) dehydrogenase 1	15.61
9	BC054987	NAALADL1	N-acetylated alpha-linked acidic dipeptidase-like 1	15.98
10	BC056841	AMY2A	Amylase	12.21
11	BC056856	CPA1	Carboxypeptidase A1	38.45
12	BC059786		<i>Transcribed locus</i>	69.65
13	BC059976		<i>Transcribed locus</i>	22.40
14	BC061680	RDH16	Retinol dehydrogenase 16	24.15
15	BC070669	ADH1B	Alcohol dehydrogenase 1B	15.66
16	BC070682	KRT19	Keratin 19	16.04
17	BC071004	SULT2A1	Sulfotransferase family 3A	11.68
18	BC072097	ACTA1	Actin, alpha 1	20.68
19	BC072970	CELA1	Chymotrypsin-like elastase family,	176.44
20	BC073555	CTRB1	Chymotrypsinogen B1	14.60
21	BC074179	ABAT	4-aminobutyrate aminotransferase	14.42
21	BC074200	HAO2	Hydroxyacid oxidase 2	11.21
23	BC077848	HPGD	Hydroxyprostaglandin dehydrogenase 15-(NAD)	17.23
24	BC078061	ELA3	Elastase 3	136.11
25	BC078585	CELA1	Chymotrypsin-like elastase family	10.86
26	BC080035	HLA-DRA	Major histocompatibility complex, class II, DR alpha	10.65
27	BC080096	SULT1A1	Sulfotransferase family, cytosolic 1A	72.69
28	BC081152	NFIX2	Nuclear factor I/X2	121.87
29	BC081272	CALB1	Calbindin 1, 28kDa	444.83
30	BC082401	DPP4	Dipeptidyl-peptidase 4	74.40
31	BC082713		<i>Transcribed locus</i>	11.28
32	BC082923	TNNI3	Troponin I type 3	22.26
33	BC084270		<i>Transcribed locus</i>	24.97
34	BC084428	MAOB	Monoamine oxidase B	83.83
35	BC084607		<i>Transcribed locus</i>	16.91
36	BC084832	CPB1	Carboxypeptidase B1	60.91
37	BC085060		<i>Transcribed locus</i>	20.23
38	BC085209	FAM55D	Family with sequence similarity 55	11.96
39	BE509325	ALPI	Alkaline phosphatase, intestinal	10.59
40	BG160459	HBG1	Hemoglobin, gamma A	31.96
41	BG346716		<i>Transcribed locus</i>	31.94
42	BG407150		<i>Transcribed locus</i>	16.35
43	BX843298		<i>Transcribed locus</i>	11.44
44	BX845609	PRSS2	Protease, serine, 2 (trypsin 1)	11.63
45	BX846064		<i>Transcribed locus</i>	32.00
46	BX846116		<i>Transcribed locus</i>	10.45
47	BX849304	PRSS3	Chymotrypsin-like elastase family	86.57
48	CB943692		<i>Transcribed locus</i>	31.69
49	CD300904		<i>Transcribed locus</i>	21.17
50	CF271248	LGALS1	Lectin, galactoside-binding, soluble1	21.19
51	CF271543		<i>Transcribed locus</i>	34.55
52	L28111	DIO3	Deiodinase, iodothyronine, type III	34.53