

Table S2. The lists of significantly expressed transcripts in zebrafish gill after 1 day or 30 days cold treatment

Systematic name	1 day-2 (Cy5/Cy3)	1 day-3 (Cy5/Cy3)	1 day- dyes (Cy3/Cy5)	ZFIN	GeneID	NCBI	GO term	Description	Symbol
obszebrafish#05462	2.202	2.461	2.649			BC051779.1	Ion transport	ATPase, Ca ²⁺ transporting, cardiac muscle, fast twitch 1 like	atp2a11
obszebrafish#07439	1.3	2.427	2.736			NM_001007029.1	Metabolism; cation transport; proton transport; calcium ion transport; calcium ion homeostasis; response to mechanical stimulus; regulation of muscle contraction; negative regulation of muscle contraction	ATPase, Ca ²⁺ transporting, cardiac muscle, fast twitch 1	atp2a1
obszebrafish#11950	2.538	3.763	1.629	ZDB-GENE-030131-4400	325675	BC066384.1	Ion transport	collagen, type I, alpha 3	col1a3
obszebrafish#07049	2.287	1.092	2.601	ZDB-GENE-000906-4	58023	NM_131511.1	Cell surface receptor linked signal transduction	frizzled homolog 9	fzd9
obszebrafish#10782	2.108	1.036	2.193			CR388060.19		Zebrafish DNA sequence from clone DKEY-208J8 in linkage group 16, complete sequence	
obszebrafish#04853	2.18	1.009	2.002	ZDB-GENE-020111-4	140817	NM_131887.1	Cellular metabolic process (regulation of transcription, DNA-dependent)	CCAAT/enhancer binding protein (C/EBP), delta	cebpd
obszebrafish#03108	1.089	3.118	2.223			CR450814.4		Zebrafish DNA sequence from clone CH211-157B11 in linkage group 6, complete sequence	
obszebrafish#09380	2.385	2.193	0.928			NM_001008590.1	Biological process	zgc:101867	zgc:101867
obszebrafish#11671	2.208	1.354	4.03			NM_001007427.1	Biological process	zgc:101706	zgc:101706
obszebrafish#07885	0.907	2.544	2.305			CR450814.4		Zebrafish DNA sequence from clone CH211-157B11 in linkage group 6, complete sequence	
obszebrafish#12211	2.058	2.147	0.856		560560	XM_683958.1		similar to 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	LOC560560

The gene expression (Cy5/Cy3 ratio), ZFIN ID, GENE ID, NCBI accession number, GO term (according to its biological process), gene symbol and annotations of transcripts are shown. This file contains four tables including 1 day upregulation, 30 days upregulation, 1 day downregulation and 30 days downregulation.