

Table S3: Subset of Zebrafish early genes with human and mouse orthologs

Genbank ID(ZF)	Zebrafish ID	Entrez Ger	Unigene Name (zebrafish)	Gene symbol	Human ID	Humann ortholog	Human Gene description
AW116838	Dr.19225	336425	Aldolase a, fructose-bisphosphate	aldoa	Hs.155247	ALDOA	Fructose-bisphosphate aldola
BM005100	Dr.5438	327026	ADP-ribosylation factor 1 like	arf1l	Hs.119177 H	ARF1_HUMAN	ADP-ribosylation factor 1
AW076882	Dr.6582	403025	Cancer susceptibility candidate 3	casc3	Hs.350229	CASC3	Cancer susceptibility candidat
AI437239	Dr.6928	116994	Chaperonin containing TCP1, subunit	cct6a	Hs.73072 Hs	CCT6A	T-complex protein 1, zeta sub
BE557308	Dr.134	192324	Chaperonin containing TCP1, subunit	cct7	Hs.368149	CCT7	T-complex protein 1, eta subu
BG303647	Dr.26326	321602	Cyclin-dependent kinase 9 (CDC2-related)	cdk9	Hs.150423	CDK9	Cell division protein kinase 9
AB040044	Dr.8161	57970	Coatomer protein complex, subunit z	copz1	Hs.37482 Hs	Copz2	Coatomer zeta-2 subunit
BI888253	Dr.20911	30436	Eyes absent homolog 1	eya1	Hs.491997	EYA4	Eyes absent homolog 4
AI878758	Dr.3225	317737	Glutamate dehydrogenase 1a	glud1a	Hs.368538 H	GLUD1	Glutamate dehydrogenase 1,
AW128619	Dr.1388	325284	G1 to S phase transition 1	gspt1	Hs.59523 Hs	GSPT1	G1 to S phase transition prote
AF412832	Dr.12595	140427	Heat shock factor 2	hsf2	Hs.158195	HSF2	Heat shock factor protein 2
D38454	Dr.20916	30151	Insulin gene enhancer protein Islet3	isl3	Hs.444677	ISL2	Insulin gene enhancer protein
AY052752	Dr.7485	170444	Pbx/knotted 1 homeobox 1.1	pknox1.1	Hs.431043	PKNOX1	Homeobox protein PKNOX1
AW305657	Dr.1375	336786	Proteasome (prosome, macropain) 2	psmc1	Hs.131528 H	PRS4_HUMAN	26S protease regulatory subu
AW116396	Dr.11425	327512	Phosphoserine aminotransferase 1	psat1	Hs.494261	PSAT1	Phosphoserine aminotransfer
BE558184	Dr.1119	322129	Retinoblastoma binding protein 4, lik	rbb4l	Hs.16003	RBBP7	Histone acetyltransferase type
AA495420	Dr.11588	334757	Sideroflexin 2	sfxn2	Hs.44070	SFXN2	Sideroflexin 2
AI545320	Dr.3018	323071	Transcription elongation regulator 1	tcerg1	Hs.443465	TCERG1	Transcription elongation regul
AY029577	Dr.12594	140614	X-box binding protein 1	xbp1	Hs.437638	XBP-1	X box binding protein-1
AW777876	Dr.9798	368235	Tyrosyl-tRNA synthetase	yars	Hs.213264	YARS	Tyrosyl-tRNA synthetase, cyto
U85091	Dr.5112	30603	SRY-box containing gene 11b	sox11b			
BM023680	Dr.26724	321659	Zinc finger RNA binding protein	zfr			

Mouse ID	Mouse ortholog	Mouse gene description	Gene Ontology
Mm.7729	Aldoa	Fructose-bisphosphatase	Not available
Mm.5061	Arf1	ADP-ribosylation factor 1	molecular function GTP binding IEA GO:0005525 ZFIN na//biological process small GTPase mediated signal transduction
Mm.40120	Casc3	Cancer susceptibility candidate 3	Cancer susceptibility
			molecular function ATP binding IEA GO:0005524 ZFIN na//biological process protein folding IEA GO:0006457 ZFIN na
Mm.28990	Cct7	T-complex protein 1	molecular function ATP binding IEA GO:0005524 ZFIN na//biological process protein folding IEA GO:0006457 ZFIN na
Mm.27557	Cdk9	cyclin-dependent kinase 9	molecular function ATP binding IEA GO:0005524 ZFIN na//molecular function kinase activity IEA GO:0016301 ZFIN na
Mm.22144	Copz2	Coatomer zeta-2 subunit	cellular component clathrin vesicle coat IEA GO:0030125 ZFIN na//biological process intracellular protein transport IEA GO:0006412 ZFIN na
Mm.25018	Eya4	Eyes absent homolog 4	molecular function catalytic activity IEA GO:0003824 ZFIN na//biological process development IEA GO:0007275 ZFIN na
Mm.10600	Glud1	Glutamate dehydrogenase 1	biological process amino acid metabolism IEA GO:0006520 ZFIN na//molecular function oxidoreductase activity IEA GO:0006412 ZFIN na
Mm.20826	Gspt2	G1 to S phase transition	molecular function GTP binding IEA GO:0005525 ZFIN na//biological process protein biosynthesis IEA GO:0006412 ZFIN na
Mm.26139	Hsf2	heat shock factor 2	molecular function DNA binding IEA GO:0003677 ZFIN na//cellular component nucleus IEA GO:0005634 ZFIN na//biological process metabolism IEA GO:0006412 ZFIN na
Mm.27399	Isl2	Insulin gene enhancer 2	molecular function DNA binding IEA GO:0003677 ZFIN na//biological process development IEA GO:0007275 ZFIN na
Mm.25929	Pknox1	Homeobox protein Pknox1	molecular function DNA binding IEA GO:0003677 ZFIN na//biological process cell differentiation IMP GO:0030154 ZFIN na
Mm.15710	Psmc1	26S protease regulatory subunit 1	molecular function ATP binding IEA GO:0005524 ZFIN na//cellular component cytoplasm IEA GO:0005737 ZFIN na//biological process metabolism IEA GO:0006412 ZFIN na
Mm.28993	Psat1	Phosphoserine aminotransferase 1	biological process L-serine biosynthesis IEA GO:0006564 ZFIN na//biological process metabolism IEA GO:0008152 ZFIN na
		B subunit 2	Not available
Mm.29683	Sfxn2	Sideroflexin 2	biological process cation transport IEA GO:0006812 ZFIN na//molecular function cation transporter activity IEA GO:0006412 ZFIN na
Mm.27051	Tcerg1	transcription elongation factor C, gamma	Not available
Mm.22718	Xbp1	X-box binding protein 1	molecular function DNA binding IEA GO:0003677 ZFIN na//cellular component nucleus IEA GO:0005634 ZFIN na
Mm.14548	Yars	tyrosyl-tRNA synthetase	molecular function ATP binding IEA GO:0005524 ZFIN na//molecular function nucleic acid binding IEA GO:0003676 ZFIN na
Mm.39088	Sox19	Transcription factor Sox19	molecular function DNA binding IEA GO:0003677 ZFIN na//biological process regulation of transcription, DNA-dependent IEA GO:0006412 ZFIN na
Mm.27349	Zfr	zinc finger RNA binding protein	molecular function nucleic acid binding IEA GO:0003676 ZFIN na//cellular component nucleus IEA GO:0005634 ZFIN na

