Table 3.1. ESTs upregulated two-fold or higher on microarray comparing gene expression in PEA-exposed and control adult olfactory epithelia.

Known zebrafish genes up-regulated 2.4 fold and higher:

Fold change	*Gene name (Zfin gene symbol)*	*EST accession number*
10.27	integral membrane protein 1 (*itm1*),	AI437149
9.19	matrix metalloproteinase 13 (*mmp13*)	AW420822
6.01	retinoic acid binding protein 1a (*crabp1a*)	BI710499
4.26	aldolase C, fructose bisphosphate like (*aldocl*)	BM070521
4.00	parvalbumin 6 (*pvalb6*)	AW305488
3.99	zinc finger protein (*zic5*)	BM182229
3.49	diencephalon/ mesencephalon homeobox1 (*dmbx1*)	AI793690
3.26	orthodenticle homolog 2 (*otx2*)	U14592
3.17	sodium/ potassium ATPase subunit alpha1 A1 (*atp1a1a.4*)	AY028629
3.06	contactin 1b (*cntn1b*)	BI980947
3.03	pyruvate Kinase (*pkm2*)	BI891882
2.80	s100 calcium binding protein b, neural (*s100b*)	BI982416
2.78	hairy-related 4 (*her4*)	AW117106
2.46	ubiquinol-cytochrome c reductase, iron-sulfur polypeptide 1 (*uqcrfs1*)	BM037012
2.44	synaptosome-associated protein 25a (*snap25a)*	AF091593
2.43	cytochrome p450 1A (*cyp1a*)	AW342687
2.43	ATP Binding cassette, sub-family E (OABP), member1 (*abce1*)	AW116147
2.43	matrilin 4 (*matn4*)	AI722408
2.42	urotensin (*uts1*)	BG306472

Known zebrafish genes up-regulated 2.0-2.4 fold (Zfin gene symbol, EST accession number):

gnl3, AW165362; *creb3l3,* AW116026; *ucp4,* BF156623; *tax1bp3,* AI641767; *cga,* BI841677; *hccs,* AW171587; *cahz,* U55177; *hk2,* AW116117; *poldip2,* BI892368; *rtn1a,* AW419601; *calb2,* BM070961; *lin7b,* AW419601; *etf1,* AI667625; *ubfm1,* AW116285; *atrx1,* AI793590; *gnb1l,* AI667618; *anp32e,* BI877872;*uqcrc2,* AW116004; *hirip5,* BI880114; *acadm,* BM183970; *ndrg3a,*BM182832; *copb1,*AW019011; *gad1,*AF017266; *mbp,*BI839846; *reverbb2,*BG308431; *kcnd3,*AW116066; *hcfc1,*BM034960; *phb,*BI880695; *mdkb,*AY008836; *sgce,*AW077278; *dscr1l2,*BI880684; *flj13639,*BM024231; *pitpna,* BM026002; *zic6,* AI641415.

- A total of 185 ESTs were up-regulated two-fold or higher.
- 53 ESTs are known zebrafish genes and are listed above.
- 19 ESTs have been assigned putative function based on homology but are not confirmed in zebrafish.
- 113 ESTs are unknown.