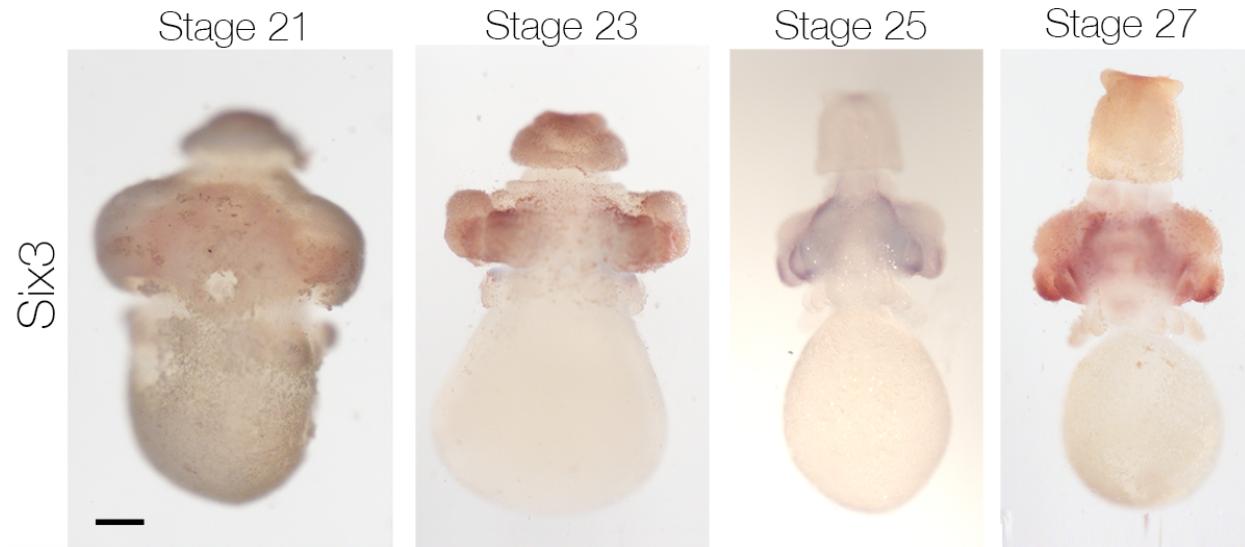


Figure S1: Model of Eye Vesicle Closure and High Magnification Images of Brain Regions Identified by Lineage Tracing

A) Graphical representation of the first steps of eye formation in the squid, eye placode and placode lip formation through placode internalization. Top row is viewing the eye straight on, second row is a cross-section view of each stage respectively.

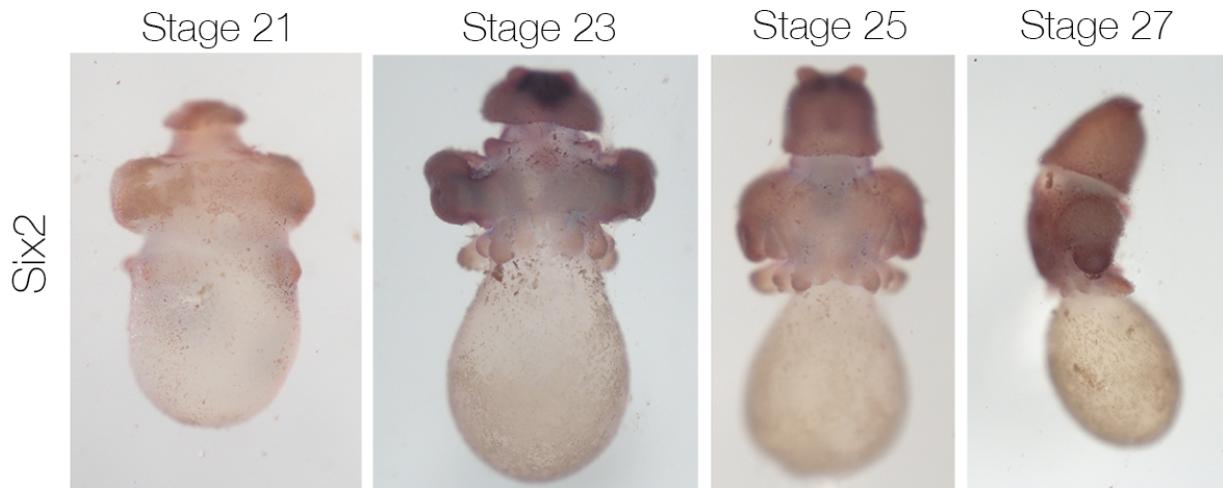
B) High magnification of brain regions of the squid at hatching.

Figure S2: Expanded *In situ* hybridization Gene expression Analyses



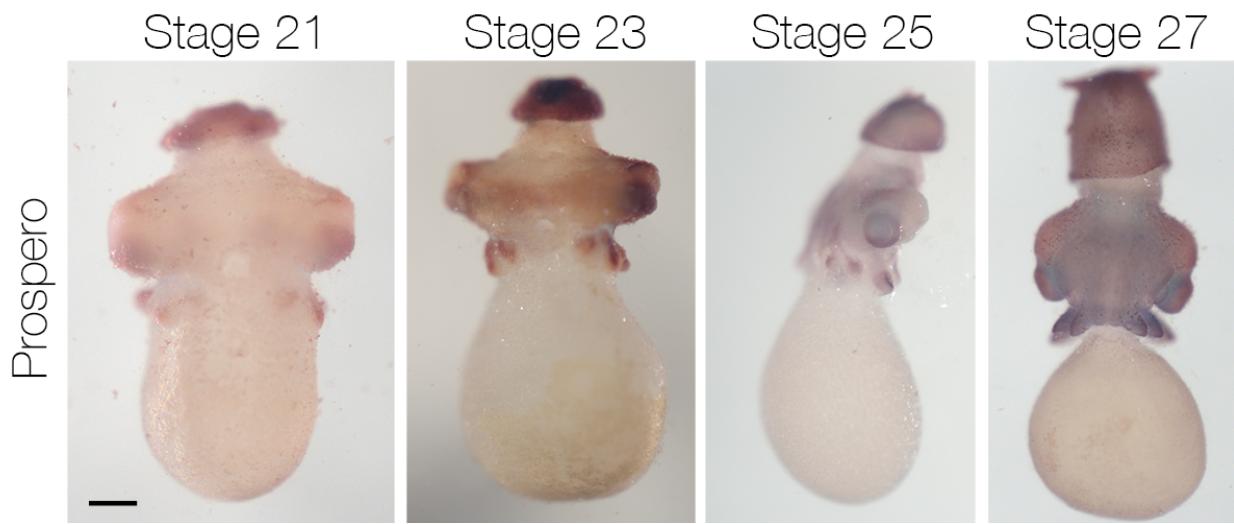
A) *In situ* hybridization for *Six3*

In situ hybridizations for *Six3* expression at Stages 21, 23, 25, and 27. Expression is in the developing cerebral ganglia tissue and parts of the developing eye. Expression in the eye is apparent at Stage 21 and 23. Lens and cornea and iris expression is apparent in at Stage 25. At Stage 27 this expression has expanded beyond the anterior of the eye. All embryos are shown from the anterior perspective. Scale = 100 um



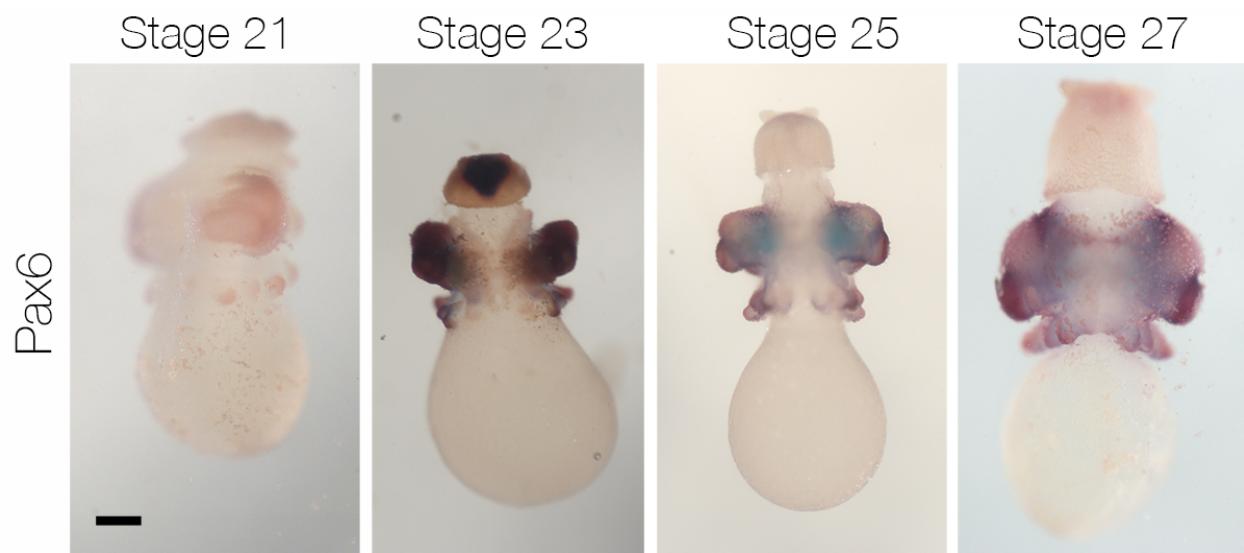
B) *In situ* hybridization for *Six2*

In situ hybridizations for *Six2* expression in Stages 21, 23, 25 and 27. Eye specific expression is apparent at later stages of development, noticeably at Stage 27. All embryos are shown from the anterior with the exception of Stage 27, which is a lateral view.



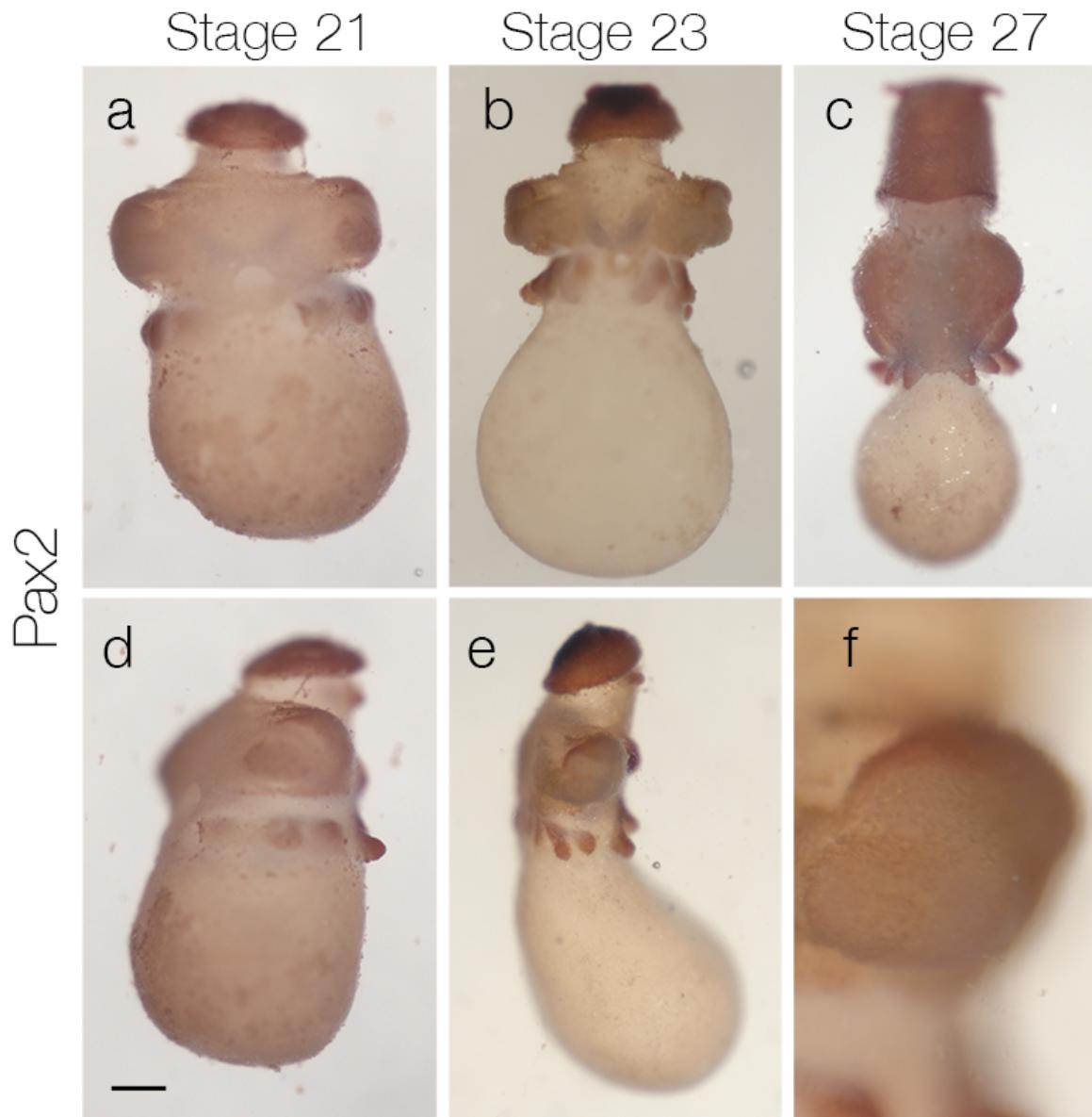
C) *In situ* hybridization for *Prospero*

In situ hybridization for *Prospero* expression in Stages 21, 23, 25, and 27. *Prospero* expression is apparent in the eye, mantle and developing arms at all stages. Expression in the cerebral ganglia is apparent at Stage 23 and Stage 25. Expression is diffuse at Stage 27. All embryos are shown from the anterior with the exception of Stage 25, which is a lateral view, anterior left. Scale = 100um



D) *In situ* hybridization for *Pax6*

In situ hybridization for *Pax6* expression at Stages 21, 23, 25 and 27. Expression in the eye and optic lobe tissue is apparent throughout development. Expression in the arms is also apparent. All embryos are shown from the anterior with the exception of Stage 21, which is shown from an anterolateral perspective. Scale = 100um

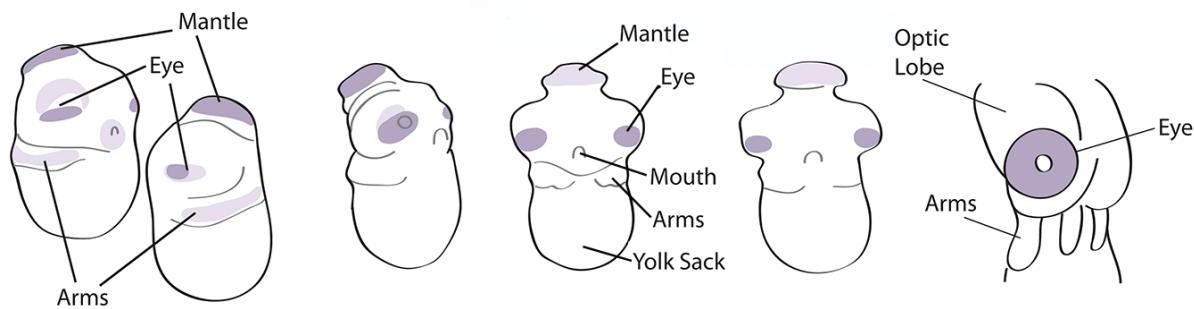


E) *In situ* hybridization for *Pax2*

In situ hybridizations for *Pax2* expression for Stages 21, 23 and 27. a,d) *Pax2* expression at Stage 21 is apparent in the mantle and developing eye and arms, as well as tissue incorporating into the developing optic lobe. a) is an anterior view and d) is an anterolateral view. b,e,f) Expression at Stage 23. Expression is apparent in the arms and in the tissue dorsal to the retina. This tissue may incorporate into the anterior chamber organ. b) Anterior view, e) lateral view, f) high magnification image of the eye in e). c) Diffuse expression at Stage 27. Scale for the low magnification images = 100um

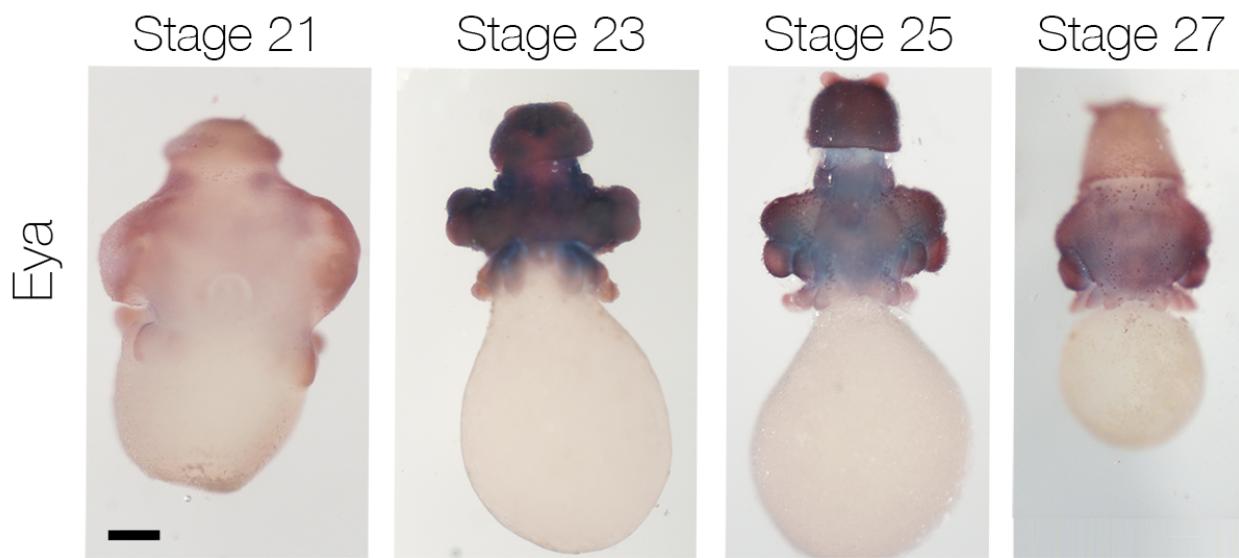
Hes

Stage 18 Stage 19 Stage 20 Stage 21 Stage 22 Stage 25



F) In situ hybridization for Hes

In situ hybridization for *Hes* expression for Stages 18, 19, 20, 21, 22, and 25. Expression is robust in the developing retina at all stages. Some expression is apparent in the developing mantle at early stages. Stage 18 and 20 are shown antrolaterally. Stage 19 is shown laterally, Stage 21 and Stage 22 are shown from the anterior and stage 25 is a lateral view.

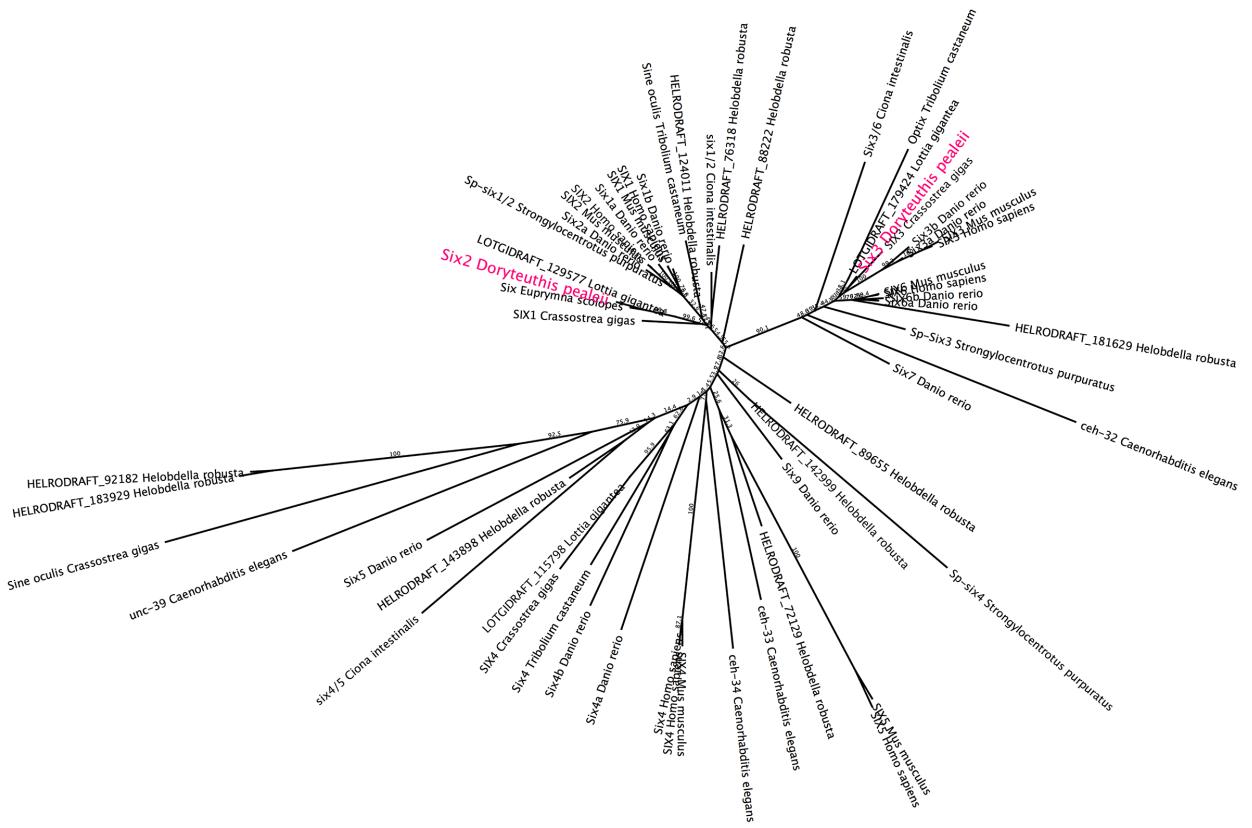


G) *In situ* hybridization for *Eya*

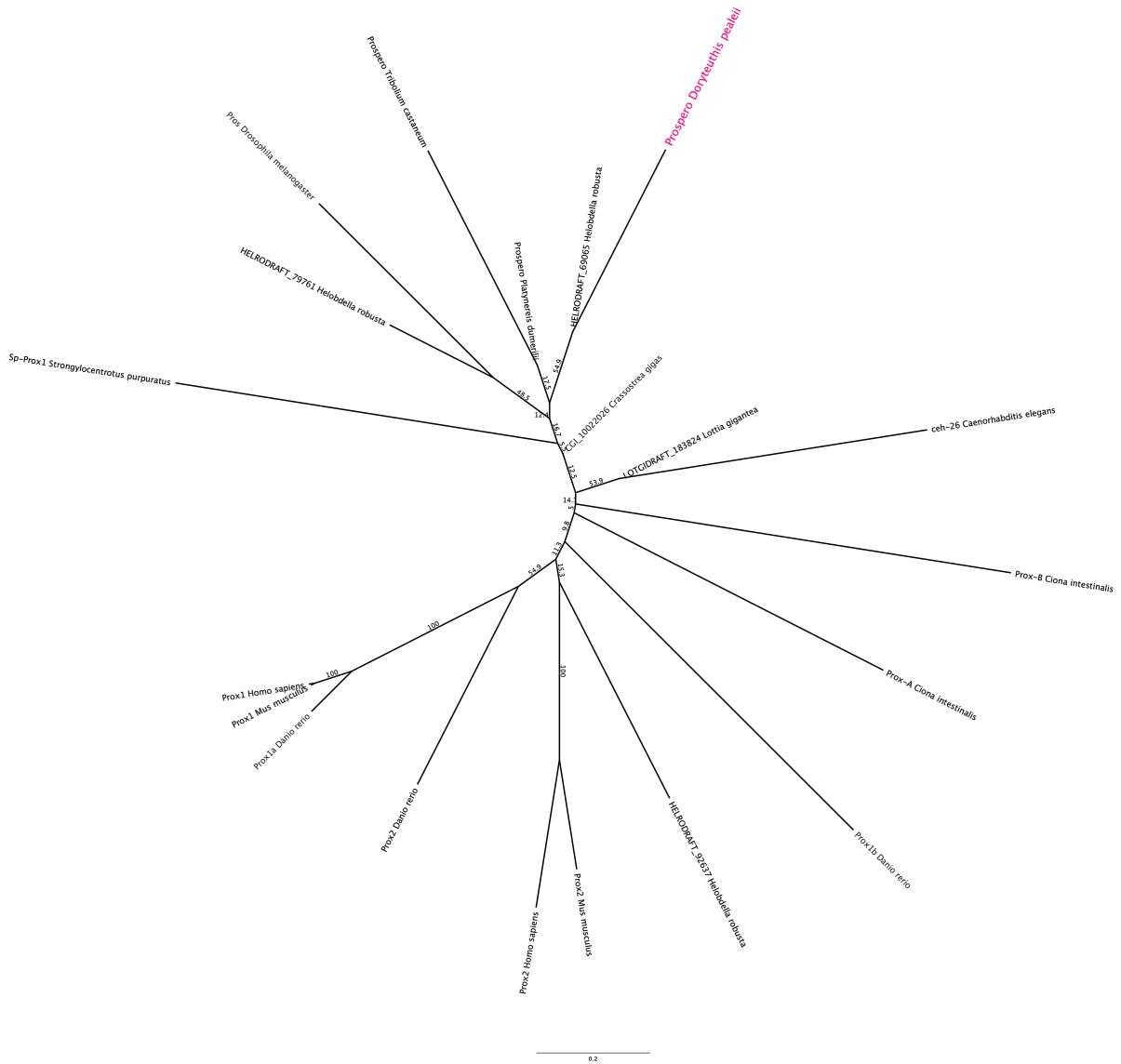
In situ hybridization for *Eya* expression in Stages 21, 23, 25 and 27. At Stage 21 expression is apparent in lens surrounding the developing lens tissue, as well as the optic lobe and palliovisceral primordia. Expression is also apparent in the developing arms and mantle but distinctly excluded from the cerebral ganglion region. Expression at Stage 23 and 25 is broad and robust. At Stage 27 expression decreases in the mantle. Scale = 100um

Figure S3: Maximum Likelihood Phylogenetic Analysis: All trees are a consensus from 1000 bootstrapped ML trees. Bootstrap scores are indicated on the branches. *Doryteuthis pealeii* sequences are highlighted in magenta. All sequence information for the trees can be found in Supplemental Table 2.

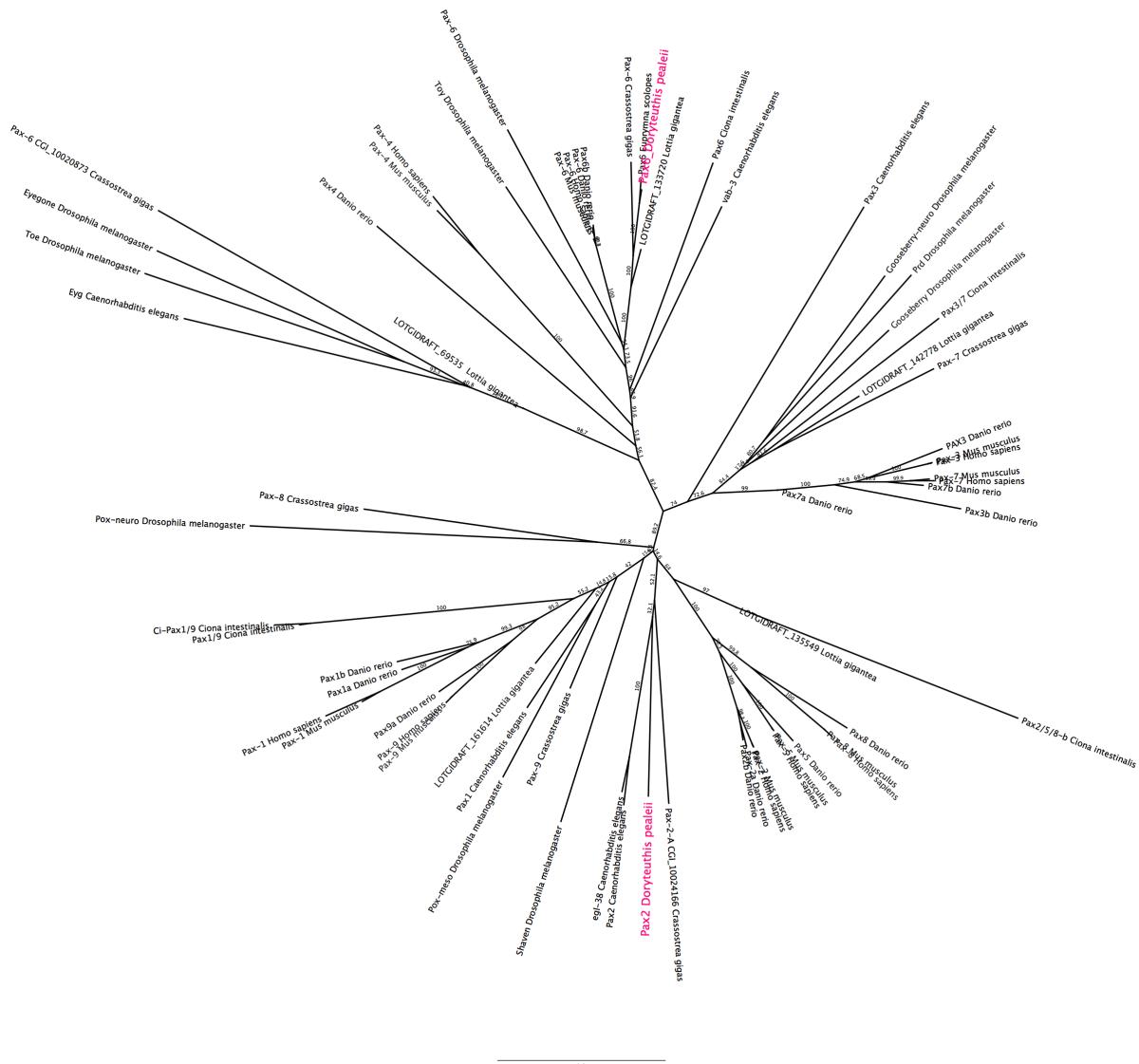
- A) Maximum Likelihood Phylogenetic Analysis of Six Genes: The *D. pealeii* Six2 gene formed a clade with other Six1/2 genes and was most closely related to the previously identified Six gene in *Euprymna scolopes*. *D. pealeii* Six3 formed a strongly supported clade with other Six3/6 genes.
- B) Maximum Likelihood Phylogenetic Analysis of Prospero Genes: *D. pealeii* Pros forms a clade with other Ecdysozoans *Tibolium* and *Drosophila* Pros.
- C) Maximum Likelihood Phylogenetic Analysis of Pax Genes: Our phylogenetic analysis showed *D. pealeii* Pax6 most closely related to the bobtail squid *Euprymna scolopes* Pax6, while *D. pealeii* Pax2 formed a clade with other Pax2/5/8 proteins, most closely related to *C. elegans* Pax2 and Egl38.
- D) Maximum Likelihood Phylogenetic Analysis of Notch Genes: *D. pealeii* Notch forms a strong clade with other Notch proteins, forming a small clade with other molluscs.
- E) Maximum Likelihood Phylogenetic Analysis of Hes Genes: *D. pealeii* Hes forms a clade including *Drosophila* Hairy and Deadpan.
- F) Maximum Likelihood Phylogenetic Analysis of Eya Genes: *D. pealeii* Eya is most closely related to the previously identified Eya gene in *Euprymna scolopes*.



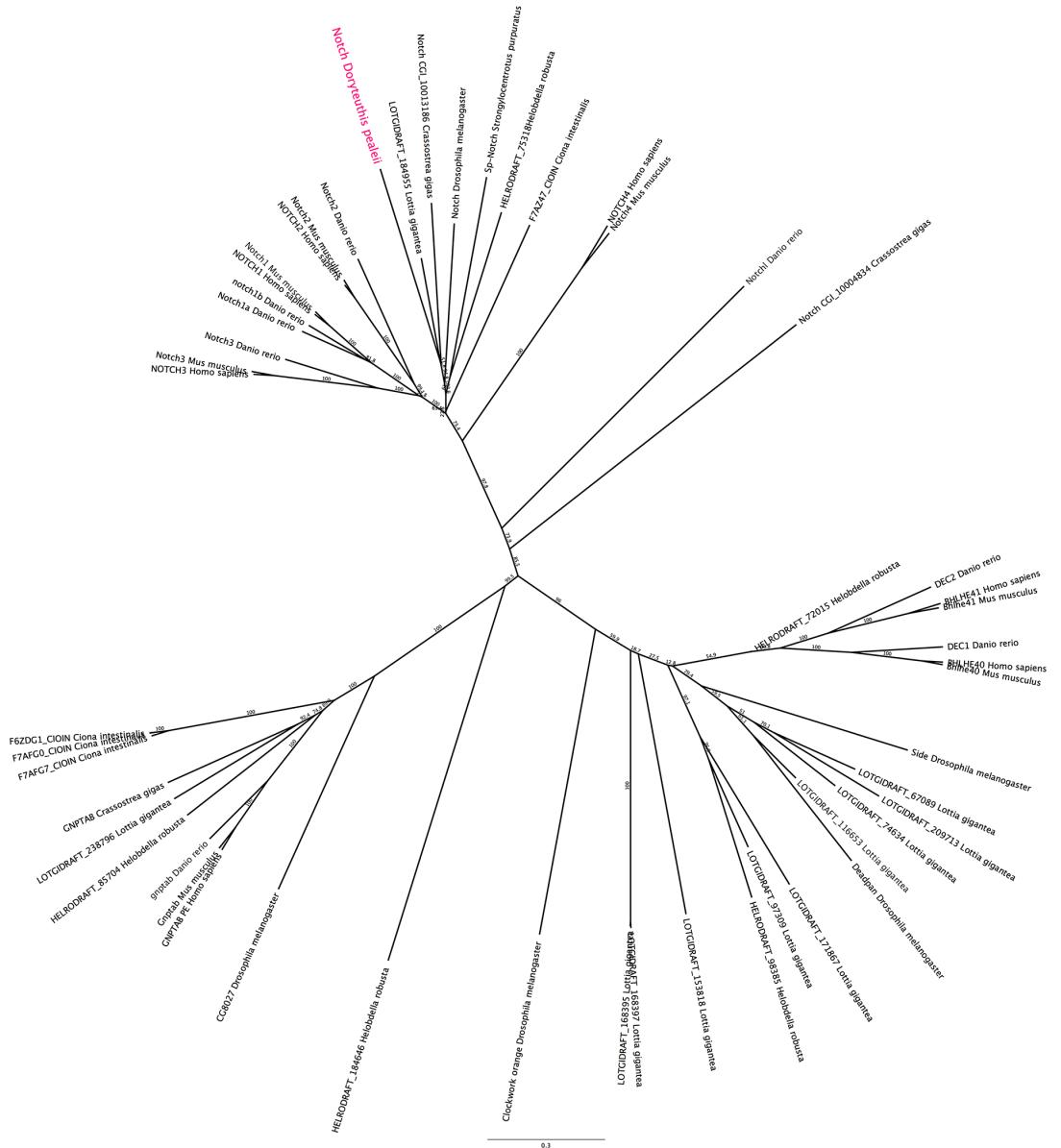
A) Maximum Likelihood Phylogenetic Analysis of Six Genes



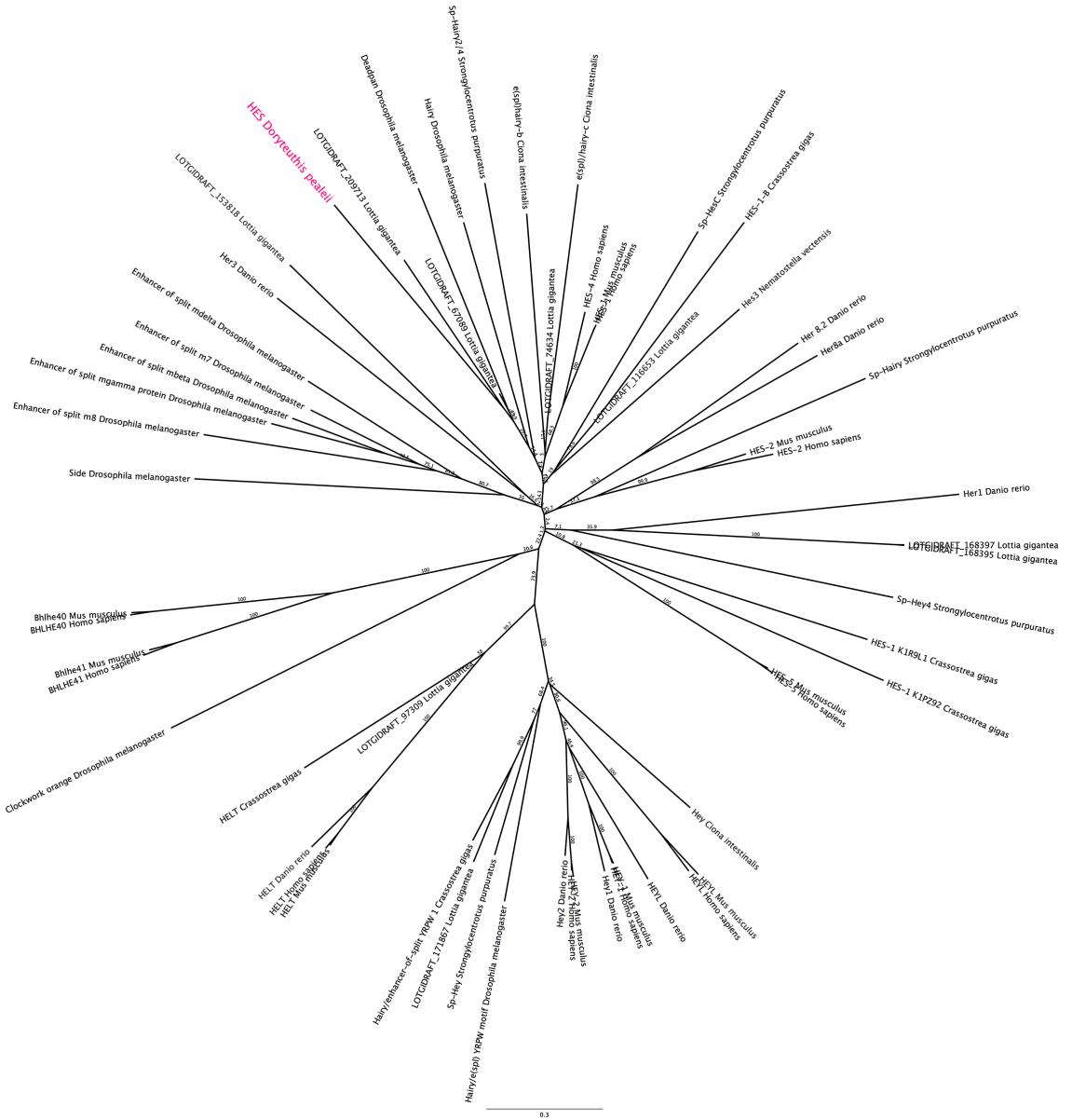
B) Maximum Likelihood Phylogenetic Analysis of Prospero Genes

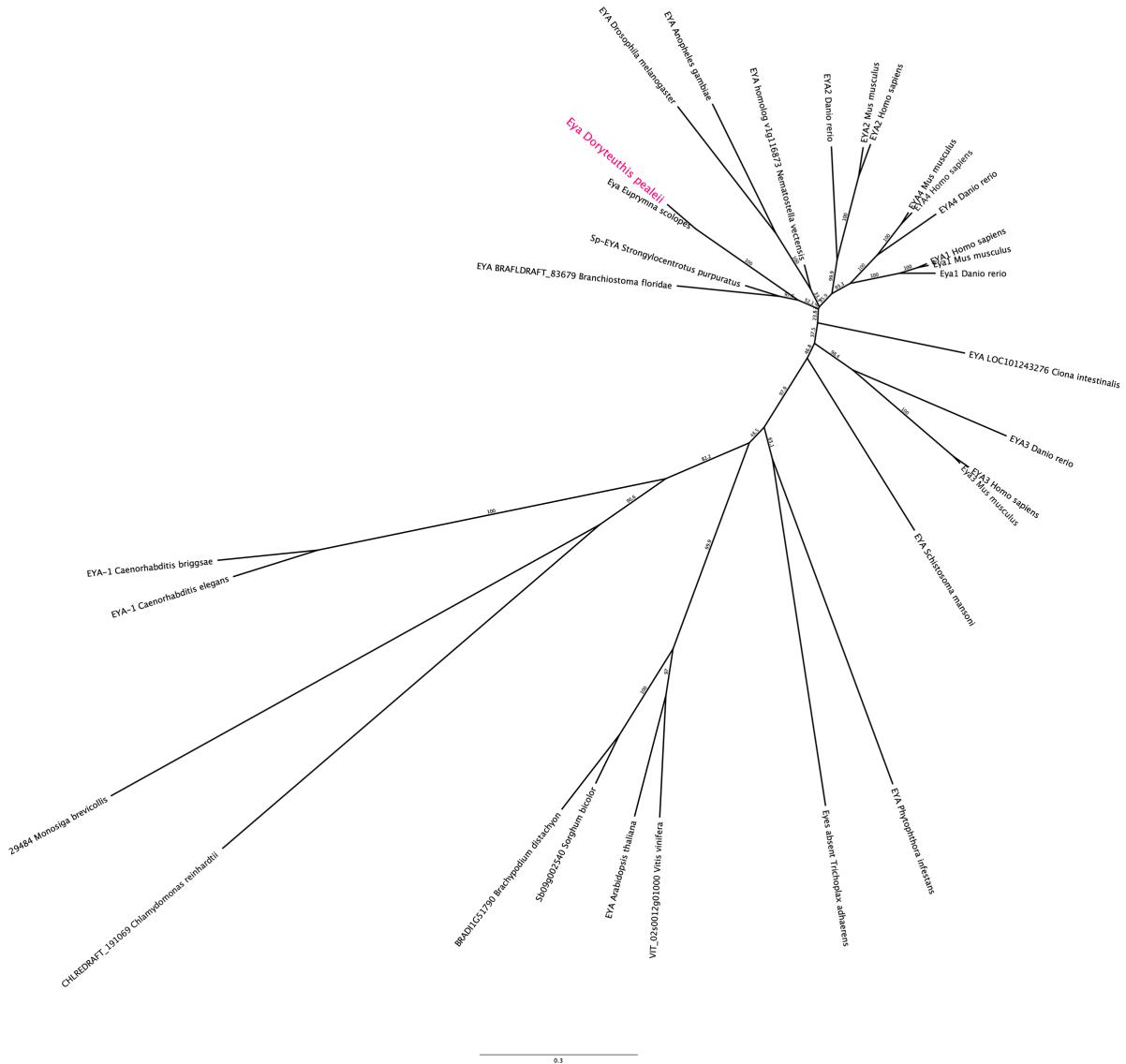


C) Maximum Likelihood Phylogenetic Analysis of Pax Genes



D) Maximum Likelihood Phylogenetic Analysis of Notch Genes

**E) Maximum Likelihood Phylogenetic Analysis of Hes Genes**



F) Maximum Likelihood Phylogenetic Analysis of Eya Genes

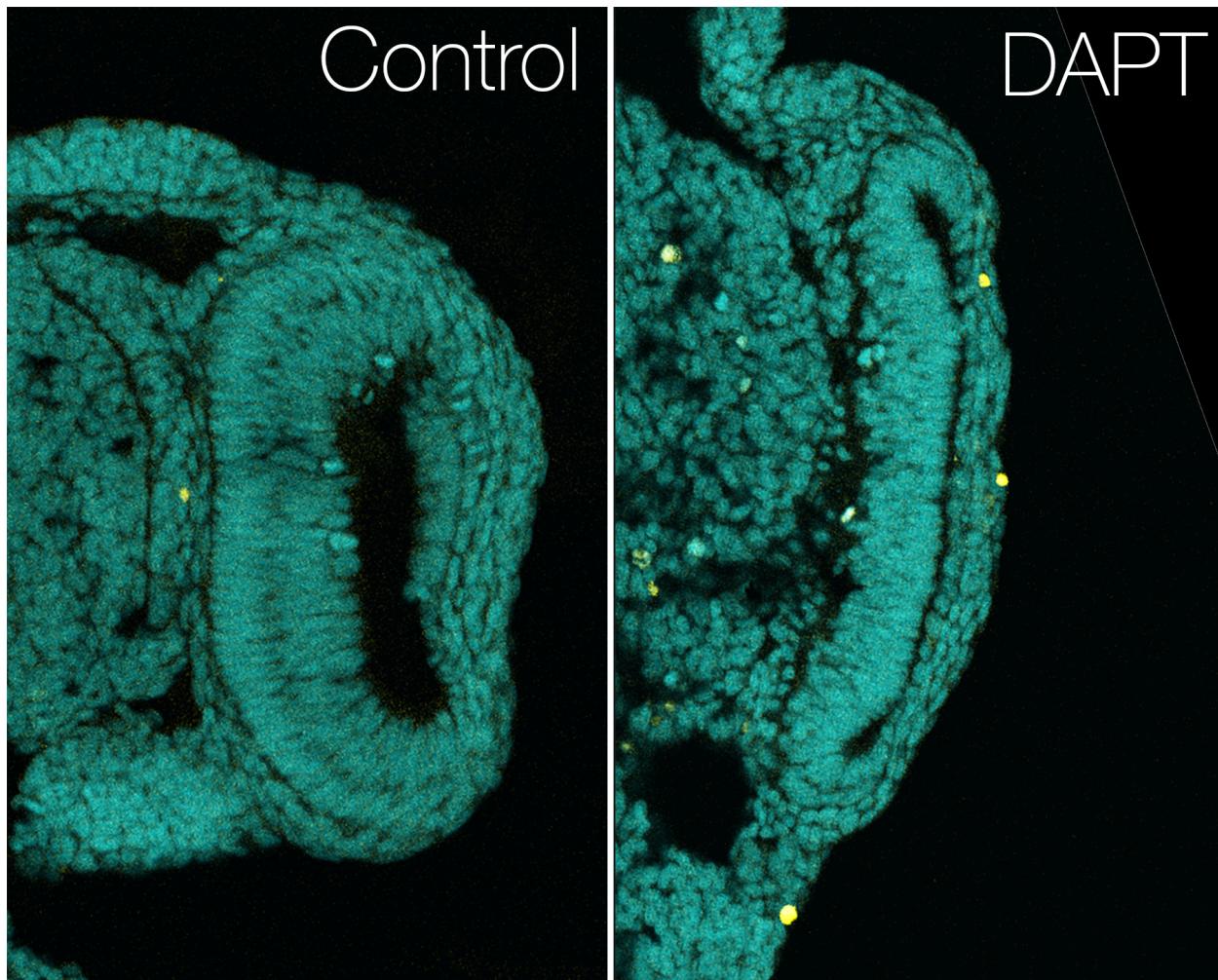


Figure S4: TUNEL staining of DAPT-treated embryos

Cross-section of 24 hour DAPT (20 μ M) and DMSO treated embryos. Embryos were treated at Stage 21 and fixed 3 hours post-treatment. Sytox-Green (cyan) and TUNEL (yellow).

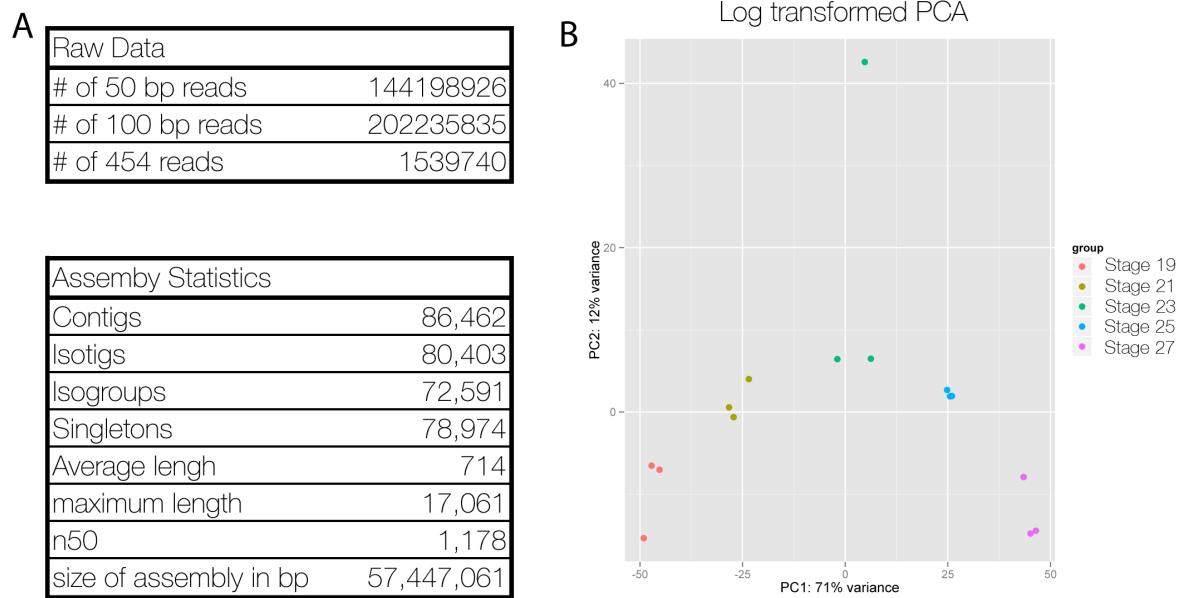


Figure S5: Sequencing raw data and assembly and RNA-seq statistics

Raw read counts and statistical analysis of the whole-embryo transcriptome. (B) Log transformed Principal Component Analysis graph of time-course RNA-seq data.

Table S1: Primer Sequences

Gene Name	Primers Sequence
Pax6	AGCAAGATTCTCGGAMGNTAYTAYGA
Pax6	TGCAAAAACGTCTGGRTARTGNGT
NF70	CGAATGGGAAAAGAACCTC
NF70	TGTCTGCCGTTTCAGCGTC
Optix/Six3	TTCTGGGCAGCGGAAACTTC
Optix/Six3	AAGATA GTGGTGACATTGAACGGC
Sine Oculis/Six2	TTGTGGTCAAACCTGTGGCTTC
Sine Oculis/Six2	TGCGAGCACCTACACAAAAACG
Eyes Absent	AAGAGAACGGCTTACCTGACC
Eyes Absent	GGAGGAGGTACATTGTCAGTC
Eyes Absent	TCGGTCACTTGGACTTCGAATGG
Pax2	TGGCTGTGTTTGAGAAGGGATAC
Pax2	GTAGCCACCCCCAAAGTTGAGAG
Prospero	AGCGATGGGAGAGCACAATAG
Prospero	ATGGATACTCGGCACTGTTGGGG
Notch	CGAGGTCCAGATGGTTCACAC
Notch	CGACATTATTACAGATGCTGCC
Hes	TTCCTCCACCAACAGCAACAAG
Hes	GACACATAGCAACCATTGAAGCG
Rhodopsin	TGCGGTATTATTGGTTGTGTCG
Rhodopsin	CACGGAACCTAGGATGAGATACGG

Table S2. Sequence information for the phylogenetic trees

Prospero Sequences				
Uniprot Entry	Entry name	Protein names	Gene names	Organism
P34522	HM26_CAEEL	Homeobox protein ceh-26	ceh-26 K12H4.1	<i>Caenorhabditis elegans</i>
K1RD84	K1RD84_CRAGI	Homeobox protein prospero	CGI_10022026	<i>Crassostrea gigas</i> (Pacific oyster) (<i>Crassostrea angulata</i>)
T1FZP0	T1FZP0_HELRO	Uncharacterized protein (Fragment)	HELRODRAFT_69065	<i>Helobdella robusta</i> (Californian leech)
T1G3T0	T1G3T0_HELRO	Uncharacterized protein	HELRODRAFT_79761	<i>Helobdella robusta</i> (Californian leech)
T1G8J3	T1G8J3_HELRO	Uncharacterized protein	HELRODRAFT_92637	<i>Helobdella robusta</i> (Californian leech)
V3ZWV3	V3ZWV3_LOTG1	Uncharacterized protein	LOTGIDRAFT_183824	<i>Lottia gigantea</i> (Giant owl limpet)
P29617	PROS_DROME	Homeobox protein prospero	pros CG17228	<i>Drosophila melanogaster</i> (Fruit fly)
D6WUC4	D6WUC4_TRICA	Prospero	pros TcasGA2_TC010596	<i>Tribolium castaneum</i> (Red flour beetle)
F1QAE1	F1QAE1_DANRE	Uncharacterized protein	prox1a	<i>Danio rerio</i> (Zebrafish) (<i>Brachydanio rerio</i>)
D2DHG1	D2DHG1_DANRE	Prospero-like protein Prox1b (Uncharacterized protein)	prox1b	<i>Danio rerio</i> (Zebrafish) (<i>Brachydanio rerio</i>)
Q92786	PROX1_HUMAN	Prospero homeobox protein 1 (Homeobox prospero-like protein PROX1) (PROX-1)	PROX1	<i>Homo sapiens</i> (Human)
P48437	PROX1_MOUSE	Prospero homeobox protein 1 (Homeobox prospero-like protein PROX1) (PROX-1)	Prox1	<i>Mus musculus</i> (Mouse)
F1RDL6	F1RDL6_DANRE	Uncharacterized protein	prox2	<i>Danio rerio</i> (Zebrafish) (<i>Brachydanio rerio</i>)
Q3B8N5	PROX2_HUMAN	Prospero homeobox protein 2 (Homeobox prospero-like protein PROX2) (PROX-2)	PROX2	<i>Homo sapiens</i> (Human)
Q8BII1	PROX2_MOUSE	Prospero homeobox protein 2 (Homeobox prospero-like protein PROX2) (PROX-2)	Prox2	<i>Mus musculus</i> (Mouse)
Q4H2W9	Q4H2W9_CIOIN	Transcription factor protein (Uncharacterized protein) (Fragment)	Ci-Prox-A prox-a	<i>Ciona intestinalis</i> (Transparent sea squirt) (<i>Ascidia intestinalis</i>)
Q4H2W8	Q4H2W8_CIOIN	Transcription factor protein (Uncharacterized protein)	Ci-Prox-B prox-b	<i>Ciona intestinalis</i> (Transparent sea squirt) (<i>Ascidia intestinalis</i>)
W4YJM0	W4YJM0_STRPU	Uncharacterized protein	Sp-Prox1	<i>Strongylocentrotus purpuratus</i> (Purple sea urchin)
CAY12633	C3W8S4_PLADU	Prospero related homeodomain protein	Prox	<i>Platynereis drumerillii</i>

Six Sequences				
Entry	Entry name	Protein names	Gene names	Organism
E9PGG2	ANHX_HUMAN	Anomalous homeobox protein	ANHX	Homo sapiens (Human)
Q23175	HM32_CAEEL	Homeobox protein ceh-32	ceh-32 W05E10.3	Caenorhabditis elegans
Q94166	HM33_CAEEL	Homeobox protein ceh-33	ceh-33 C10G8.7	Caenorhabditis elegans
Q94165	HM34_CAEEL	Homeobox protein ceh-34	ceh-34 C10G8.6	Caenorhabditis elegans
T1G0W2	T1G0W2_HELR0	Uncharacterized protein	HELRODRAFT_72129	Helobdella robusta (Californian leech)
T1G2I3	T1G2I3_HELR0	Uncharacterized protein (Fragment)	HELRODRAFT_76318	Helobdella robusta (Californian leech)
T1G701	T1G701_HELR0	Uncharacterized protein	HELRODRAFT_88222	Helobdella robusta (Californian leech)
T1G7F5	T1G7F5_HELR0	Uncharacterized protein (Fragment)	HELRODRAFT_89655	Helobdella robusta (Californian leech)
T1G8C7	T1G8C7_HELR0	Uncharacterized protein	HELRODRAFT_92182	Helobdella robusta (Californian leech)
T1EGZ9	T1EGZ9_HELR0	Uncharacterized protein (Fragment)	HELRODRAFT_124011	Helobdella robusta (Californian leech)
T1EJ85	T1EJ85_HELR0	Uncharacterized protein (Fragment)	HELRODRAFT_142999	Helobdella robusta (Californian leech)
T1JC9	T1JC9_HELR0	Uncharacterized protein (Fragment)	HELRODRAFT_143898	Helobdella robusta (Californian leech)
T1FH69	T1FH69_HELR0	Uncharacterized protein	HELRODRAFT_181629	Helobdella robusta (Californian leech)
T1FKB2	T1FKB2_HELR0	Uncharacterized protein	HELRODRAFT_183929	Helobdella robusta (Californian leech)
V4AHM7	V4AHM7_LOTGI	Uncharacterized protein	LOTGIDRAFT_115798	Lottia gigantea (Giant owl limpet)
V3ZUB0	V3ZUB0_LOTGI	Uncharacterized protein	LOTGIDRAFT_129577	Lottia gigantea (Giant owl limpet)
V3ZWS5	V3ZWS5_LOTGI	Uncharacterized protein	LOTGIDRAFT_179424	Lottia gigantea (Giant owl limpet)
A9JPG3	A9JPG3_TRICA	Optix protein (Sine oculis-related homeobox 3)	Optix optix TcasGA2_TC000361	Tribolium castaneum (Red flour beetle)
K1P313	K1P313_CRAGI	Protein sine oculis	CGI_10014640	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
D6WIY0	D6WIY0_TRICA	Sine oculis	So TcasGA2_TC030468	Tribolium castaneum (Red flour beetle)
F6PRL5	F6PRL5_CIOIN	Uncharacterized protein	six45	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
H2XLH4	H2XLH4_CIOIN	Uncharacterized protein	six12	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
Q6DHF9	SIX1A_DANRE	Homeobox protein six1a (Homeobox protein six1b) (Sine oculis homeobox homolog)	six1a six1b	Danio rerio (Zebrafish) (Brachydanio rerio)
Q6NZ04	SIX1B_DANRE	Homeobox protein six1b (Homeobox protein six1a) (Sine oculis homeobox homolog)	six1b six1 six1a	Danio rerio (Zebrafish) (Brachydanio rerio)
Q98TH1	Q98TH1_DANRE	Homeobox protein six2.1 (Sine oculis homeobox homolog 2.1) (Six2.1 protein) (Uncharacterized protein)	six2a six2.1	Danio rerio (Zebrafish) (Brachydanio rerio)
F6VVA7	F6VVA7_CIOIN	Uncharacterized protein (Fragment)	six36	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
Q6PC45	Q6PC45_DANRE	Sine oculis homeobox homolog 3a (Uncharacterized protein)	six3a	Danio rerio (Zebrafish) (Brachydanio rerio)
O73709	O73709_DANRE	Homeobox protein Six6 (Sine oculis homeobox homolog 3b) (Six3) (Uncharacterized protein)	six3b six3 six6	Danio rerio (Zebrafish) (Brachydanio rerio)
A4IG26	A4IG26_DANRE	Sine oculis homeobox homolog 4.2 (Uncharacterized protein)	six4a six4.2	Danio rerio (Zebrafish) (Brachydanio rerio)
Q5TY24	Q5TY24_DANRE	Uncharacterized protein	six4b	Danio rerio (Zebrafish) (Brachydanio rerio)
G3V2N2	G3V2N2_HUMAN	Homeobox protein SIX4 (Fragment)	SIX4	Homo sapiens (Human)
D6WFW3	D6WFW3_TRICA	Sine oculis-related homeobox 4	six4 TcasGA2_TC003852	Tribolium castaneum (Red flour beetle)
F6NNW8	F6NNW8_DANRE	Uncharacterized protein	six5 six4.3	Danio rerio (Zebrafish) (Brachydanio rerio)
Q7T3G8	Q7T3G8_DANRE	Sine oculis-related homeobox 6a (Uncharacterized protein)	six6a	Danio rerio (Zebrafish) (Brachydanio rerio)
Q5TY22	Q5TY22_DANRE	Sine oculis-related homeobox 6b (Uncharacterized protein)	six6b	Danio rerio (Zebrafish) (Brachydanio rerio)
O93282	O93282_DANRE	Homeobox protein Six7 (Sine oculis homeobox homolog 7) (Uncharacterized protein)	six7	Danio rerio (Zebrafish) (Brachydanio rerio)
F6PAI1	F6PAI1_DANRE	Uncharacterized protein	six9	Danio rerio (Zebrafish) (Brachydanio rerio)
K1PJH4	K1PJH4_CRAGI	Homeobox protein SIX1	CGI_10009922	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q15475	SIX1_HUMAN	Homeobox protein SIX1 (Sine oculis homeobox homolog 1)	SIX1	Homo sapiens (Human)
Q62231	SIX1_MOUSE	Homeobox protein SIX1 (Sine oculis homeobox homolog 1)	Six1	Mus musculus (Mouse)
Q9NPC8	SIX2_HUMAN	Homeobox protein SIX2 (Sine oculis homeobox homolog 2)	SIX2	Homo sapiens (Human)
Q62232	SIX2_MOUSE	Homeobox protein SIX2 (Sine oculis homeobox homolog 2)	Six2	Mus musculus (Mouse)
K1QUB8	K1QUB8_CRAGI	Homeobox protein SIX3	CGI_10027570	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
O95343	SIX3_HUMAN	Homeobox protein SIX3 (Sine oculis homeobox homolog 3)	SIX3	Homo sapiens (Human)
Q52K88	Q52K88_MOUSE	Homeobox protein SIX3 (Six3 protein)	Six3	Mus musculus (Mouse)
K1RZS7	K1RZS7_CRAGI	Homeobox protein SIX4	CGI_10022945	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q9UIU6	SIX4_HUMAN	Homeobox protein SIX4 (Sine oculis homeobox homolog 4)	SIX4	Homo sapiens (Human)
Q61321	SIX4_MOUSE	Homeobox protein SIX4 (Sine oculis homeobox homolog 4) (Skeletal muscle-specific)	Six4 Arec3	Mus musculus (Mouse)
Q8N196	SIX5_HUMAN	Homeobox protein SIX5 (DM locus-associated homeodomain protein) (Sine oculis)	SIX5 DMAHP	Homo sapiens (Human)
P70178	SIX5_MOUSE	Homeobox protein SIX5 (DM locus-associated homeodomain protein homolog) (Sine oculis)	Six5 Dmaph	Mus musculus (Mouse)
O95475	SIX6_HUMAN	Homeobox protein SIX6 (Homeodomain protein OPTX2) (Optic homeobox 2) (Sine oculis)	SIX6 OPTX2 Six9	Homo sapiens (Human)
Q9Q228	SIX6_MOUSE	Homeobox protein SIX6 (Optic homeobox 2) (Sine oculis homeobox homolog 6) (Sine oculis)	Six6 Optx2 Six9	Mus musculus (Mouse)
W4YNK2	W4YNK2_STRPU	Uncharacterized protein	Sp-Six1/2	Strongylocentrotus purpuratus (Purple sea urchin)
W4YNK3	W4YNK3_STRPU	Uncharacterized protein	Sp-Six4	Strongylocentrotus purpuratus (Purple sea urchin)
W4YSW9	W4YSW9_STRPU	Uncharacterized protein	Sp-Six3	Strongylocentrotus purpuratus (Purple sea urchin)
O17894	O17894_CAEEL	F56A12.1	unc-39 CELE_F56A12.1 F56A12.1	Caenorhabditis elegans
A7SS98	A7SS98_NEMVE	Predicted protein (Fragment)	v1g56637	Nematostella vectensis (Starlet sea anemone)
A7S005	A7S005_NEMVE	Predicted protein	v1g99489	Nematostella vectensis (Starlet sea anemone)
A7SPN4	A7SPN4_NEMVE	Predicted protein	v1g126214	Nematostella vectensis (Starlet sea anemone)
A7ST96	A7ST96_NEMVE	Predicted protein	v1g130873	Nematostella vectensis (Starlet sea anemone)
A7S227	A7S227_NEMVE	Predicted protein (Fragment)	v1g138693	Nematostella vectensis (Starlet sea anemone)
A7S425	A7S425_NEMVE	Predicted protein	v1g206468	Nematostella vectensis (Starlet sea anemone)
V5NS22	V5NS22_EUPSC	Six		Euprymna scolopes

Pax Sequences				
Entry	Entry name	Protein names	Gene names	Organism
Q4H2Z5	Q4H2Z5_CIOIN	Transcription factor protein (Uncharacterized protein)	Ci-Pax1/9 pax1/9	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
G5ED14	G5ED14_CAEEL	C04G2.7 (PAX protein)	egl-38 C04G2.7 CELE_C04G2.7	Caenorhabditis elegans
Q9VTX7	Q9VTX7_DROME	Eyegone, isoform A (Eyegone, isoform B) (Eyegone, isoform C)	eyg CG10488 Dmel_CG10488	Drosophila melanogaster (Fruit fly)
O01996	O01996_CAEEL	Y53C12C.1	eyg-1 CELE_Y53C12C.1 Y53C12C.1	Caenorhabditis elegans
P09082	GSB_DROME	Protein gooseberry (BSH9) (Protein gooseberry distal)	gsb GSB-D GSB8 CG3388	Drosophila melanogaster (Fruit fly)
P09083	GSBN_DROME	Protein gooseberry-neuro (BSH4) (Protein gooseberry proximal)	gsb-n Gsb-p GSBA CG2692	Drosophila melanogaster (Fruit fly)
V4BBM7	V4BBM7_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_69535	Lottia gigantea (Giant owl limpet)
V3ZQV3	V3ZQV3_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_133720	Lottia gigantea (Giant owl limpet)
V3ZI38	V3ZI38_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_135549	Lottia gigantea (Giant owl limpet)
V4AMZ8	V4AMZ8_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_142778	Lottia gigantea (Giant owl limpet)
V4A9T6	V4A9T6_LOTGI	Uncharacterized protein	LOTGIDRAFT_161614	Lottia gigantea (Giant owl limpet)
H2Y2B4	H2Y2B4_CIOIN	Uncharacterized protein	pax1/9	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F1QRF4	F1QRF4_DANRE	Uncharacterized protein	pax1a	Danio rerio (Zebrafish) (Brachydanio rerio)
F1QIW7	F1QIW7_DANRE	Uncharacterized protein (Fragment)	pax1b	Danio rerio (Zebrafish) (Brachydanio rerio)
Q21272	Q21272_CAEEL	K07C11.1	pax-1 CELE_K07C11.1 K07C11.1	Caenorhabditis elegans
F6VTF7	F6VTF7_CIOIN	Uncharacterized protein	pax2/5/8-b	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F1R139	F1R139_DANRE	Uncharacterized protein	pax2b	Danio rerio (Zebrafish) (Brachydanio rerio)
Q21263	Q21263_CAEEL	K06B9.5a	pax-2 CELE_K06B9.5 K06B9.5	Caenorhabditis elegans
F6SH39	F6SH39_CIOIN	Uncharacterized protein	pax3/7	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F1Q950	F1Q950_DANRE	Uncharacterized protein (Fragment)	pax3b	Danio rerio (Zebrafish) (Brachydanio rerio)
G5ED66	G5ED66_CAEEL	F27E5.2	pax-3 CELE_F27E5.2 F27E5.2	Caenorhabditis elegans
F1R840	F1R840_DANRE	Uncharacterized protein (Fragment)	pax4	Danio rerio (Zebrafish) (Brachydanio rerio)
E7FB46	E7FB46_DANRE	Uncharacterized protein	pax5	Danio rerio (Zebrafish) (Brachydanio rerio)
Q9YHZ8	Q9YHZ8_DANRE	Pax-family transcription factor 6.2 (Uncharacterized protein)	pax6b pax6.2	Danio rerio (Zebrafish) (Brachydanio rerio)
F6PW95	F6PW95_CIOIN	Uncharacterized protein	pax6	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
E7FOA6	E7FOA6_DANRE	Uncharacterized protein	pax7a	Danio rerio (Zebrafish) (Brachydanio rerio)
COM005	COM005_DANRE	Paired box protein 7b (Uncharacterized protein)	pax7b	Danio rerio (Zebrafish) (Brachydanio rerio)
F1Q9Q9	F1Q9Q9_DANRE	Uncharacterized protein (Fragment)	pax8	Danio rerio (Zebrafish) (Brachydanio rerio)
Q98865	Q98865_DANRE	Pax9a (Uncharacterized protein)	pax9 Pax9	Danio rerio (Zebrafish) (Brachydanio rerio)
O57416	O57416_DANRE	Transcription factor PAX3 (Uncharacterized protein)	pax3a pax3	Danio rerio (Zebrafish) (Brachydanio rerio)
P15863	PAX1_HUMAN	Paired box protein Pax-1 (HuP48)	PAX1 HUP48	Homo sapiens (Human)
P09084	PAX1_MOUSE	Paired box protein Pax-1	Pax1 Pax-1	Mus musculus (Mouse)
K1QYI7	K1QYI7_CRAGI	Paired box protein Pax-2-A	CGI_10024166	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q90268	PAX2A_DANRE	Paired box protein Pax-2a (No isthmus protein) (Pax[zf-b])	pax2a noi pax2.1 paxzf-b	Danio rerio (Zebrafish) (Brachydanio rerio)
Q2Q962	PAX2_HUMAN	Paired box protein Pax-2	PAX2	Homo sapiens (Human)
P32114	PAX2_MOUSE	Paired box protein Pax-2	Pax2 Pax-2	Mus musculus (Mouse)
P23760	PAX3_HUMAN	Paired box protein Pax-3 (HuP2)	PAX3 HUP2	Homo sapiens (Human)
P24610	PAX3_MOUSE	Paired box protein Pax-3	Pax3 Pax-3	Mus musculus (Mouse)
O43316	PAX4_HUMAN	Paired box protein Pax-4	PAX4	Homo sapiens (Human)
P32115	PAX4_MOUSE	Paired box protein Pax-4	Pax4 Pax-4	Mus musculus (Mouse)
Q02548	PAX5_HUMAN	Paired box protein Pax-5 (B-cell-specific transcription factor) (BSAP)	PAX5	Homo sapiens (Human)
Q02650	PAX5_MOUSE	Paired box protein Pax-5 (B-cell-specific transcription factor) (BSAP)	Pax5 Pax-5	Mus musculus (Mouse)
K1QWY6	K1QWY6_CRAGI	Paired box protein Pax-6	CGI_10020873	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1QCD5	K1QCD5_CRAGI	Paired box protein Pax-6	CGI_10027695	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
P26630	PAX6_DANRE	Paired box protein Pax-6 (Pax[zf-a])	pax6a pax[zf-a] paxzf-a si:dkeyp-46c10.1	Danio rerio (Zebrafish) (Brachydanio rerio)
O18381	PAX6_DROME	Paired box protein Pax-6 (Protein eyeless)	ey pax6 CG1464	Drosophila melanogaster (Fruit fly)
P26367	PAX6_HUMAN	Paired box protein Pax-6 (Aniridia type II protein) (Oculorhombin)	PAX6 AN2	Homo sapiens (Human)
P63015	PAX6_MOUSE	Paired box protein Pax-6 (Oculorhombin)	Pax6 Pax-6 Sey	Mus musculus (Mouse)
K1RLJ2	K1RLJ2_CRAGI	Paired box protein Pax-7	CGI_10026438	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
P23759	PAX7_HUMAN	Paired box protein Pax-7 (HuP1)	PAX7 HUP1	Homo sapiens (Human)
P47239	PAX7_MOUSE	Paired box protein Pax-7	Pax7 Pax-7	Mus musculus (Mouse)
K1R993	K1R993_CRAGI	Paired box protein Pax-8	CGI_10012686	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q06710	PAX8_HUMAN	Paired box protein Pax-8	PAX8	Homo sapiens (Human)
Q00288	PAX8_MOUSE	Paired box protein Pax-8	Pax8 Pax-8	Mus musculus (Mouse)
P55771	PAX9_HUMAN	Paired box protein Pax-9	PAX9	Homo sapiens (Human)
P47242	PAX9_MOUSE	Paired box protein Pax-9	Pax9 Pax-9	Mus musculus (Mouse)
P23757	POXM_DROME	Paired box pox-meso protein (Paired box mesodermal protein)	Poxm POX-M CG9610	Drosophila melanogaster (Fruit fly)
P23758	POXN_DROME	Paired box pox-neuro protein (Paired box neuronal protein)	Poxn pox-n CG8246	Drosophila melanogaster (Fruit fly)
P06601	PRD_DROME	Segmentation protein paired	prd CG6716	Drosophila melanogaster (Fruit fly)
O16117	O16117_DROME	Shaven, isoform A (Sparkling protein)	sv spa CG11049 Dmel_CG11049	Drosophila melanogaster (Fruit fly)
Q870M4	Q870M4_DROME	CG10704-PA (GH22493p)	toe CG10704 Dmel_CG10704	Drosophila melanogaster (Fruit fly)
Q9V490	Q9V490_DROME	GH14454p (Twin of eyeless, isoform A)	tov CG11186 Dmel_CG11186	Drosophila melanogaster (Fruit fly)
G5EDS1	G5EDS1_CAEEL	F14F3.1a (Variable abnormal-3)	vab-3 CELE_F14F3.1 F14F3.1	Caenorhabditis elegans
Q8MUR8	Q8MUR8_EUPSC	Pax6		Euprymna scolopes

Hes Sequences				
Entry	Entry name	Protein names		Gene names
A3KQ56	A3KQ56_DANRE	Her1 protein (Uncharacterized protein)	her1	Danio rerio (Zebrafish) (Brachydanio rerio)
O14503	BHE40_HUMAN	Class E basic helix-loop-helix protein 40 (bHLHe40) (Class B basic helix-loop-helix protein 40) (bHLHe40) (Class B basic helix-loop-helix protein 40) (bHLHe40) (bHLhb2 Clast5 Stra13	BHLHE40 BHLHB2 DEC1 SHARP2 STRA13	Homo sapiens (Human)
O35185	BHE40_MOUSE	Class E basic helix-loop-helix protein 40 (bHLHe40) (Class B basic helix-loop-helix protein 40) (bHLHe40) (bHLhb2 Clast5 Stra13	Bhlhe40 Bhlhb2 Clast5 Stra13	Mus musculus (Mouse)
O9C019	BHE41_HUMAN	Class E basic helix-loop-helix protein 41 (bHLHe41) (Class B basic helix-loop-helix protein 41) (bHLHe41) (bHLHe41) (bHLhb3 DEC2 SHARP1	BHLHE41 BHLHB3 DEC2 SHARP1	Homo sapiens (Human)
Q99PV5	BHE41_MOUSE	Class E basic helix-loop-helix protein 41 (bHLHe41) (Class B basic helix-loop-helix protein 41) (bHLHe41) (bHLhb3 Dec2	Bhlhe41 Bhlhb3 Dec2	Mus musculus (Mouse)
Q26263	DPN_DROME	Protein deadpan	dpn CG8704	Drosophila melanogaster (Fruit fly)
P13097	ESM7_DROME	Enhancer of split m7 protein (E(spl)m7)	HLHm7 CG8361	Drosophila melanogaster (Fruit fly)
P13098	ESM8_DROME	Enhancer of split m8 protein (E(spl)m8)	E(spl)m8 CG8365	Drosophila melanogaster (Fruit fly)
Q01069	ESMB_DROME	Enhancer of split mbeta protein (E(spl)mbeta) (HLH-mbeta) (Split locus enhancer protein)	HLHmbeta CG14548	Drosophila melanogaster (Fruit fly)
Q01070	ESMC_DROME	Enhancer of split mgamma protein (E(spl)mgamma) (Split locus enhancer protein n)	HLHmgamma CG8333	Drosophila melanogaster (Fruit fly)
Q01071	ESMD_DROME	Enhancer of split mdelta protein (E(spl)mdelta) (HLH-mdelta) (Split locus enhancer	HLHmdelta CG8328	Drosophila melanogaster (Fruit fly)
F1Q965	F1Q965_DANRE	Uncharacterized protein (Fragment)	her8.2	Danio rerio (Zebrafish) (Brachydanio rerio)
F1QJ81	F1QJ81_DANRE	Uncharacterized protein (Fragment)	her8a	Danio rerio (Zebrafish) (Brachydanio rerio)
F1RDU0	F1RDU0_DANRE	Uncharacterized protein (Fragment)	her3	Danio rerio (Zebrafish) (Brachydanio rerio)
F6QRK3	F6QRK3_CIOIN	Uncharacterized protein (Fragment)	hey	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F6TXK6	F6TXK6_CIOIN	Uncharacterized protein	e(spl)/hairy-b	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F7A592	F7A592_CIOIN	Uncharacterized protein	e(spl)/hairy-c	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
P14003	HAIR_DROME	Protein hairy	h CG6494	Drosophila melanogaster (Fruit fly)
Q6Q800	HELT_DANRE	Hairy and enhancer of split-related protein helt (HES/HEY-like transcription factor)	helt zgc:109704	Danio rerio (Zebrafish) (Brachydanio rerio)
A6NFD8	HELT_HUMAN	Hairy and enhancer of split-related protein HELT (HES/HEY-like transcription factor)	HELT	Homo sapiens (Human)
Q7TS99	HELT_MOUSE	Hairy and enhancer of split-related protein HELT (HES/HEY-like transcription factor)	Helt Hesl Mgn	Mus musculus (Mouse)
Q14469	HES1_HUMAN	Transcription factor HES-1 (Class B basic helix-loop-helix protein 39) (bHLHb39) (Ha	HES1 BHLHB39 HL HRY	Homo sapiens (Human)
P35428	HES1_MOUSE	Transcription factor HES-1 (Hairy and enhancer of split 1)	Hes1 Hes-1	Mus musculus (Mouse)
Q9Y543	HES2_HUMAN	Transcription factor HES-2 (Class B basic helix-loop-helix protein 40) (bHLHb40) (Ha	HES2 BHLHB40	Homo sapiens (Human)
Q54792	HES2_MOUSE	Transcription factor HES-2 (Hairy and enhancer of split 2)	Hes2	Mus musculus (Mouse)
Q9HCC6	HES4_HUMAN	Transcription factor HES-4 (hHES4) (Class B basic helix-loop-helix protein 42) (bHLH	HES4 BHLHB42	Homo sapiens (Human)
Q5TA89	HES5_HUMAN	Transcription factor HES-5 (Class B basic helix-loop-helix protein 38) (bHLHb38) (Ha	HES5 BHLHB38	Homo sapiens (Human)
P70120	HES5_MOUSE	Transcription factor HES-5 (Hairy and enhancer of split 5)	Hes5 Hes-5	Mus musculus (Mouse)
Q8AXV6	HEY1_DANRE	Hairy/enhancer-of-split related with YRPW motif protein 1	hey1	Danio rerio (Zebrafish) (Brachydanio rerio)
Q9Y5J3	HEY1_HUMAN	Hairy/enhancer-of-split related with YRPW motif protein 1 (Cardiovascular helix-lo	HEY1 BHLHB31 CHF2 HERP2 HESR1 HRT1	Homo sapiens (Human)
Q9WV93	HEY1_MOUSE	Hairy/enhancer-of-split related with YRPW motif protein 1 (Hairy and enhancer of	Hey1 Herp2 Hesr1 Hrt1	Mus musculus (Mouse)
Q919L0	HEY2_DANRE	Hairy/enhancer-of-split related with YRPW motif protein 2 (Protein gridlock)	hey2 grl zgc:136746	Danio rerio (Zebrafish) (Brachydanio rerio)
Q9UBP5	HEY2_HUMAN	Hairy/enhancer-of-split related with YRPW motif protein 2 (Cardiovascular helix-lo	HEY2 BHLHB32 CHF1 GRL HERP HERP1 HRT2	Homo sapiens (Human)
Q9QUS4	HEY2_MOUSE	Hairy/enhancer-of-split related with YRPW motif protein 2 (HES-related repressor	Hey2 Chf1 Herp1 Hesr1 Hrt2	Mus musculus (Mouse)
Q7KM13	HEY_DROME	Hairy/enhancer-of-split related with YRPW motif protein	Hey1 Hesr-1 CG11194	Drosophila melanogaster (Fruit fly)
Q8AXV5	HEYL_DANRE	Hairy/enhancer-of-split related with YRPW motif-like protein	hey1;sidkey-148n22.1	Danio rerio (Zebrafish) (Brachydanio rerio)
Q9NQ87	HEYL_HUMAN	Hairy/enhancer-of-split related with YRPW motif-like protein (hHeyL) (Class B basic	HEYL BHLHB33 HRT3	Homo sapiens (Human)
Q9DBX7	HEYL_MOUSE	Hairy/enhancer-of-split related with YRPW motif-like protein (Hairy and enhancer	Heyl Hesr3 Hrt3	Mus musculus (Mouse)
K1PP05	K1PP05_CRAGI	Transcription factor HES-1-B	CGI_10019616	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1PZ92	K1PZ92_CRAGI	Transcription factor HES-1	CGI_10014039	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1QKA1	K1QKA1_CRAGI	Hairy/enhancer-of-split related with YRPW motif protein 1	CGI_10018323	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1QQK8	K1QQK8_CRAGI	Hairy and enhancer of split-related protein HELT	CGI_10022440	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1R9L1	K1R9L1_CRAGI	Transcription factor HES-1	CGI_10017446	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q9VGZ5	Q9VGZ5_DROME	Clockwork orange, isoform A	cwo CG17100 Dmel_CG17100	Drosophila melanogaster (Fruit fly)
Q9V116	Q9V116_DROME	CG10446-PA (GH26014p)	Side CG10446 Dmel_CG10446	Drosophila melanogaster (Fruit fly)
V3Z2B4	V3Z2B4_LOTGI	Uncharacterized protein	LOTGIDRAFT_168397	Lottia gigantea (Giant owl limpet)
V3ZJE0	V3ZJE0_LOTGI	Uncharacterized protein	LOTGIDRAFT_209713	Lottia gigantea (Giant owl limpet)
V3ZUW0	V3ZUW0_LOTGI	Uncharacterized protein	LOTGIDRAFT_168395	Lottia gigantea (Giant owl limpet)
V4A3Y9	V4A3Y9_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_74634	Lottia gigantea (Giant owl limpet)
V4ADJ5	V4ADJ5_LOTGI	Uncharacterized protein	LOTGIDRAFT_153818	Lottia gigantea (Giant owl limpet)
V4ALY1	V4ALY1_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_116653	Lottia gigantea (Giant owl limpet)
V4AWV7	V4AWV7_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_67089	Lottia gigantea (Giant owl limpet)
V4BA37	V4BA37_LOTGI	Uncharacterized protein	LOTGIDRAFT_171867	Lottia gigantea (Giant owl limpet)
V4CNC5	V4CNC5_LOTGI	Uncharacterized protein (Fragment)	LOTGIDRAFT_97309	Lottia gigantea (Giant owl limpet)
W4XTR1	W4XTR1_STRPU	Uncharacterized protein	Sp-Hairy	Strongylocentrotus purpuratus (Purple sea urchin)
W4XTR2	W4XTR2_STRPU	Uncharacterized protein	Sp-Hairy2/4	Strongylocentrotus purpuratus (Purple sea urchin)
W4Y187	W4Y187_STRPU	Uncharacterized protein	Sp-Hey	Strongylocentrotus purpuratus (Purple sea urchin)
W4YIV6	W4YIV6_STRPU	Uncharacterized protein	Sp-Hey4	Strongylocentrotus purpuratus (Purple sea urchin)
W4Z0H3	W4Z0H3_STRPU	Uncharacterized protein	Sp-HesC	Strongylocentrotus purpuratus (Purple sea urchin)

Eya Sequences				
Entry	Entry name	Protein names	Gene names	Organism
A9VB82	A9VB82_MONBE	Predicted protein		29484 Monosiga brevicollis (Choanoflagellate)
A8J031	A8J031_CHLRE	Predicted protein	CHLREDRAFT_191069	Chlamydomonas reinhardtii (Chlamydomonas smithii)
P97480	EYA3_MOUSE	Eyes absent homolog 3 (EC 3.1.3.48)	Eya3	Mus musculus (Mouse)
O08575	EYA2_MOUSE	Eyes absent homolog 2 (EC 3.1.3.48)	Eya2 Eab1	Mus musculus (Mouse)
Q9Z191	EYA4_MOUSE	Eyes absent homolog 4 (EC 3.1.3.48)	Eya4	Mus musculus (Mouse)
O82162	O82162_ARATH	At2g35320/T4C15.1 (EYA-like protein) (Similar to eyes absent protein) (Tyrosine-sp)	At2g35320 At2g35320/T4C15.1	Arabidopsis thaliana (Mouse-ear cress)
O17670	O17670_CAEEL	Eyes absent homolog (EC 3.1.3.48)	eya-1 C49A1.4 CELE_C49A1.4	Caenorhabditis elegans
F6HTB0	F6HTB0_VITVI	Putative uncharacterized protein	VIT_02s0012g01000	Vitis vinifera (Grape)
F6UD40	F6UD40_CION	Eyes absent homolog (EC 3.1.3.48)	LOC101243276	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
O95677	EYA4_HUMAN	Eyes absent homolog 4 (EC 3.1.3.48)	EYA4	Homo sapiens (Human)
D0MQAO	D0MQAO_PHYIT	Eyes absent family protein	PITG_00231	Phytophthora infestans (strain T30-4) (Potato late blight fungus)
C3Y1E5	C3Y1E5_BRAFL	Eyes absent homolog (EC 3.1.3.48)	BRAFLDRAFT_83679	Branchiostoma floridae (Florida lancelet) (Amphioxus)
A8XU56	A8XU56_CAEBR	Eyes absent homolog (EC 3.1.3.48)	eya-1 Cbr-eya-1 cbr-eya-1 CBG18807 CBG_18807	Caenorhabditis briggsae
A7SG20	A7SG20_NEMVE	Eyes absent homolog (EC 3.1.3.48) (Fragment)	v1g116873	Nematostella vectensis (Starlet sea anemone)
O00167	EYA2_HUMAN	Eyes absent homolog 2 (EC 3.1.3.48)	EYA2 EAB1	Homo sapiens (Human)
Q05201	EYA_DROME	Developmental protein eyes absent (EC 3.1.3.48) (Protein Clift)	eya cli CG9554	Drosophila melanogaster (Fruit fly)
O99504	EYA3_HUMAN	Eyes absent homolog 3 (EC 3.1.3.48)	EYA3	Homo sapiens (Human)
A3KQ54	A3KQ54_DANRE	Eyes absent homolog (EC 3.1.3.48)	eya3	Danio rerio (Zebrafish) (Brachydanio rerio)
Q66HX1	Q66HX1_DANRE	Eyes absent homolog (EC 3.1.3.48)	eya2 zgc:92279	Danio rerio (Zebrafish) (Brachydanio rerio)
C5YZG4	C5YZG4_SORBI	Putative uncharacterized protein Sb09g002540	Sb09g002540 SORBIDRAFT_09g002540	Sorghum bicolor (Sorghum) (Sorghum vulgare)
I1H1W7	I1H1W7_BRADI	Uncharacterized protein	BRAD11G51790	Brachypodium distachyon (Purple false brome) (Trachynia distachya)
P97767	EYA1_MOUSE	Eyes absent homolog 1 (EC 3.1.3.16) (EC 3.1.3.48)	Eya1	Mus musculus (Mouse)
B3S2N8	B3S2N8_TRIAD	Eyes absent homolog (EC 3.1.3.48)	TRIADDRADF_58093	Trichoplax adhaerens (Trichoplax reptans)
E9QGF5	E9QGF5_DANRE	Eyes absent homolog (EC 3.1.3.48)	eya4	Danio rerio (Zebrafish) (Brachydanio rerio)
O99502	EYA1_HUMAN	Eyes absent homolog 1 (EC 3.1.3.16) (EC 3.1.3.48)	EYA1	Homo sapiens (Human)
F1QNU4	F1QNU4_DANRE	Eyes absent homolog (EC 3.1.3.48)	eya1	Danio rerio (Zebrafish) (Brachydanio rerio)
W4YDN9	W4YDN9_STRPU	Eyes absent homolog (EC 3.1.3.48)	Sp-Eya	Strongylocentrotus purpuratus (Purple sea urchin)
G4VPW6	G4VPW6_SCHMMA	Eyes absent homolog (EC 3.1.3.48)	Smp_173090	Schistosoma mansoni (Blood fluke)
V5NSK2	V5NSK2_EUPSC	Eyes absent homolog		Euprymna scolopes
Q7Q8A3	Q7Q8A3_ANOGA	Eyes absent homolog (EC 3.1.3.48) (Fragment)	AgaP_AGAP008726	Anopheles gambiae (African malaria mosquito)
V5NSK2	V5NSK2_EUPSC	Eyes absent homolog		Euprymna scolopes

Notch Sequences				
Entry	Entry name	Protein names	Gene names	Organism
O35185	BHE40_MOUSE	Class E basic helix-loop-helix protein 40 (bHLHe40) (Class B basic helix-loop-helix protein 40)	bhlhe40 Bhlhb2 Clast5 Stra13	Mus musculus (Mouse)
Q99PV5	BHE41_MOUSE	Class E basic helix-loop-helix protein 41 (bHLHe41) (Class B basic helix-loop-helix protein 41)	bhlhe41 Bhlhb3 Dec2	Mus musculus (Mouse)
O14503	BHE40_HUMAN	Class E basic helix-loop-helix protein 40 (bHLHe40) (Class B basic helix-loop-helix protein 40)	BHLHE40 BHLHB2 DEC1 SHARP2 STRA13	Homo sapiens (Human)
Q9C0J9	BHE41_HUMAN	Class E basic helix-loop-helix protein 41 (bHLHe41) (Class B basic helix-loop-helix protein 41)	BHLHE41 BHLHB3 DEC2 SHARP1	Homo sapiens (Human)
A12757	A12757_DROME	CG8027 (EC 2.7.-.-) (FI02838p)	CG8027-RA CG8027 Dmel_CG8027	Drosophila melanogaster (Fruit fly)
Q9VGZ5	Q9VGZ5_DROME	Clockwork orange, isoform A	cwo CG17100 Dmel(CG17100	Drosophila melanogaster (Fruit fly)
Q26263	DPN_DROME	Protein deadpan	dpn CG8704	Drosophila melanogaster (Fruit fly)
Q6NY50	Q6NY50_DANRE	BHLH protein DEC1 (bhlh40 protein) (Uncharacterized protein)	bhlh40 Bhlhb2 DEC1	Danio rerio (Zebrafish) (Brachydanio rerio)
Q2PGD2	Q2PGD2_DANRE	BHLH protein DEC2 (Basic helix-loop-helix domain containing, class B, 3 like) (Dec2)	bhlh41 Bhlhb3I DEC2 DKEY-66C4.5-001	Danio rerio (Zebrafish) (Brachydanio rerio)
F6ZDG1	F6ZDG1_CIOIN	Uncharacterized protein (Fragment)		Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F7AFG0	F7AFG0_CIOIN	Uncharacterized protein (Fragment)		Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F7AFG7	F7AFG7_CIOIN	Uncharacterized protein (Fragment)		Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
F7AZ47	F7AZ47_CIOIN	Uncharacterized protein	n	Ciona intestinalis (Transparent sea squirt) (Ascidia intestinalis)
K1PK27	K1PK27_CRAGI	N-acetylglucosamine-1-phosphotransferase subunits alpha/beta	CGI_10013374	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
Q5RGJ8	GNPTA_DANRE	N-acetylglucosamine-1-phosphotransferase subunits alpha/beta (EC 2.7.8.17) (GlcNAcptab gnpta si:ch211-234f20.3 zgc:122985	Gnptab gnpta si:ch211-234f20.3 zgc:122985	Danio rerio (Zebrafish) (Brachydanio rerio)
Q69ZN6	GNPTA_MOUSE	N-acetylglucosamine-1-phosphotransferase subunits alpha/beta (EC 2.7.8.17) (GlcNAcptab Gnpta K1aa1208	Gnptab Gnpta K1aa1208	Mus musculus (Mouse)
Q3T906	GNPTA_HUMAN	N-acetylglucosamine-1-phosphotransferase subunits alpha/beta (EC 2.7.8.17) (GlcNAcptab GNPTA K1AA1208	GNPTAB GNPTA K1AA1208	Homo sapiens (Human)
T1GOU1	T1GOU1_HELRO	Uncharacterized protein	HELRODRAFT_72015	Helobdella robusta (Californian leech)
T1G236	T1G236_HELRO	Uncharacterized protein	HELRODRAFT_75318	Helobdella robusta (Californian leech)
T1G620	T1G620_HELRO	Uncharacterized protein	HELRODRAFT_85704	Helobdella robusta (Californian leech)
T1G9M2	T1G9M2_HELRO	Uncharacterized protein	HELRODRAFT_98385	Helobdella robusta (Californian leech)
T1FLN6	T1FLN6_HELRO	Uncharacterized protein	HELRODRAFT_184646	Helobdella robusta (Californian leech)
V4AWV7	V4AWV7_LOTG1	Uncharacterized protein (Fragment)	LOTGIDRAFT_67089	Lottia gigantea (Giant owl limpet)
V4A3Y9	V4A3Y9_LOTG1	Uncharacterized protein (Fragment)	LOTGIDRAFT_74634	Lottia gigantea (Giant owl limpet)
V4CNC5	V4CNC5_LOTG1	Uncharacterized protein (Fragment)	LOTGIDRAFT_97309	Lottia gigantea (Giant owl limpet)
V4ALY1	V4ALY1_LOTG1	Uncharacterized protein (Fragment)	LOTGIDRAFT_11653	Lottia gigantea (Giant owl limpet)
V4ADJ5	V4ADJ5_LOTG1	Uncharacterized protein	LOTGIDRAFT_153818	Lottia gigantea (Giant owl limpet)
V3ZUW0	V3ZUW0_LOTG1	Uncharacterized protein	LOTGIDRAFT_168395	Lottia gigantea (Giant owl limpet)
V3ZZB4	V3ZZB4_LOTG1	Uncharacterized protein	LOTGIDRAFT_168397	Lottia gigantea (Giant owl limpet)
V4BA37	V4BA37_LOTG1	Uncharacterized protein	LOTGIDRAFT_171867	Lottia gigantea (Giant owl limpet)
V4BGJ2	V4BGJ2_LOTG1	Uncharacterized protein (Fragment)	LOTGIDRAFT_184955	Lottia gigantea (Giant owl limpet)
V3ZIE0	V3ZIE0_LOTG1	Uncharacterized protein	LOTGIDRAFT_209713	Lottia gigantea (Giant owl limpet)
V4AQQ8	V4AQQ8_LOTG1	Uncharacterized protein	LOTGIDRAFT_238796	Lottia gigantea (Giant owl limpet)
F1QCA7	F1QCA7_DANRE	Uncharacterized protein	notch1b	Danio rerio (Zebrafish) (Brachydanio rerio)
P46530	NOTC1_DANRE	Neurogenic locus notch homolog protein 1 (Notch 1) [Cleaved into: Notch 1 extracellular domain 1 notch1a notch1b]	Notch1a notch1b	Danio rerio (Zebrafish) (Brachydanio rerio)
Q01705	NOTC1_MOUSE	Neurogenic locus notch homolog protein 1 (Notch 1) (Motch A) (mt14) (p300) [Cleaved into: Notch 1 extracellular domain 1 notch1a notch1b]	Notch1 Motch	Mus musculus (Mouse)
F1R9H8	F1R9H8_DANRE	Uncharacterized protein	notch2	Danio rerio (Zebrafish) (Brachydanio rerio)
O35516	NOTC2_MOUSE	Neurogenic locus notch homolog protein 2 (Notch 2) (Motch B) [Cleaved into: Notch 2 extracellular domain 1 notch2a notch2b]	Notch2	Mus musculus (Mouse)
F1QZF2	F1QZF2_DANRE	Uncharacterized protein	notch3	Danio rerio (Zebrafish) (Brachydanio rerio)
Q61982	NOTC3_MOUSE	Neurogenic locus notch homolog protein 3 (Notch 3) [Cleaved into: Notch 3 extracellular domain 1 notch3a notch3b]	Notch3	Mus musculus (Mouse)
P31695	NOTC4_MOUSE	Neurogenic locus notch homolog protein 4 (Notch 4) [Cleaved into: Transforming growth factor beta receptor type 1 intracellular domain 3]	Notch4 Int-3 Int3	Mus musculus (Mouse)
P46531	NOTC1_HUMAN	Neurogenic locus notch homolog protein 1 (Notch 1) (hN1) (Translocation-associated protein)	NOTCH1 TAN1	Homo sapiens (Human)
Q04721	NOTC2_HUMAN	Neurogenic locus notch homolog protein 2 (Notch 2) (hN2) [Cleaved into: Notch 2 extracellular domain 1 notch2a notch2b]	NOTCH2	Homo sapiens (Human)
Q9UM47	NOTC3_HUMAN	Neurogenic locus notch homolog protein 3 (Notch 3) [Cleaved into: Notch 3 extracellular domain 1 notch3a notch3b]	NOTCH3	Homo sapiens (Human)
Q99466	NOTC4_HUMAN	Neurogenic locus notch homolog protein 4 (Notch 4) (hNotch4) [Cleaved into: Notch 4 extracellular domain 1 notch4a notch4b]	NOTCH4 INT3	Homo sapiens (Human)
K1S0U1	K1S0U1_CRAGI	Neurogenic locus Notch protein	CGI_10004834	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
K1PPU8	K1PPU8_CRAGI	Neurogenic locus Notch protein	CGI_10013186	Crassostrea gigas (Pacific oyster) (Crassostrea angulata)
P07207	NOTCH_DROME	Neurogenic locus Notch protein [Cleaved into: Processed neurogenic locus Notch protein]	NCG3936	Drosophila melanogaster (Fruit fly)
X1WEZ2	X1WEZ2_DANRE	Uncharacterized protein	notch1	Danio rerio (Zebrafish) (Brachydanio rerio)
Q9VJ16	Q9VJ16_DROME	CG10446-PA (GH26014p)	Side CG10446 Dmel(CG10446	Drosophila melanogaster (Fruit fly)
W4YEFO	W4YEFO_STRPU	Uncharacterized protein	Sp-Notch	Strongylocentrotus purpuratus (Purple sea urchin)