

**Additional Table 2. List of NACHT domain containing sequences in different genomes**

| Genome                    | Data Source                       | Protein Identifier |
|---------------------------|-----------------------------------|--------------------|
| <i>H. sapiens</i> (human) | Ensembl release 38 'pep.abinitio' | GENSCAN00000000608 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000000910 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000001215 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000001216 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000001217 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000004427 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000008263 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000015265 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000020422 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000022439 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000027967 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000028541 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000028634 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000040206 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000045567 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000054018 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000055729 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000056262 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000059219 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000059321 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000066521 |
|                           | Ensembl release 38 'pep.abinitio' | GENSCAN00000066524 |
| <i>H. sapiens</i> (human) | Ensembl release 38 'pep'          | ENSP00000222823    |
|                           | Ensembl release 38 'pep'          | ENSP00000323897    |
|                           | Ensembl release 38 'pep'          | ENSP00000300589    |
|                           | Ensembl release 38 'pep'          | ENSP00000327462    |
|                           | Ensembl release 38 'pep'          | ENSP00000346231    |
|                           | Ensembl release 38 'pep'          | ENSP00000291971    |
|                           | Ensembl release 38 'pep'          | ENSP00000339491    |
|                           | Ensembl release 38 'pep'          | ENSP00000344074    |
|                           | Ensembl release 38 'pep'          | ENSP00000353251    |
|                           | Ensembl release 38 'pep'          | ENSP00000344787    |
|                           | Ensembl release 38 'pep'          | ENSP00000343891    |
|                           | Ensembl release 38 'pep'          | ENSP00000262510    |
|                           | Ensembl release 38 'pep'          | ENSP00000311233    |
|                           | Ensembl release 38 'pep'          | ENSP00000194097    |
|                           | Ensembl release 38 'pep'          | ENSP00000327763    |
|                           | Ensembl release 38 'pep'          | ENSP00000324366    |
|                           | Ensembl release 38 'pep'          | ENSP00000299481    |

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|----------------------------|-----------------------------------|--------------------|
|                            | Ensembl release 38 'pep'          | ENSP00000355449    |
|                            | Ensembl release 38 'pep'          | ENSP00000316328    |
|                            | Ensembl release 38 'pep'          | ENSP00000309767    |
|                            | Ensembl release 38 'pep'          | ENSP00000321876    |
|                            | Ensembl release 38 'pep'          | ENSP00000354159    |
|                            | Ensembl release 38 'pep'          | ENSP00000292199    |
| <hr/>                      |                                   |                    |
| <i>H. sapiens</i> (human)  | NCBI                              | GI:14719829        |
|                            | NCBI                              | GI:8923473         |
|                            | NCBI                              | GI:34878693        |
|                            | NCBI                              | GI:19745162        |
|                            | NCBI                              | GI:32481211        |
|                            | NCBI                              | GI:21264320        |
|                            | NCBI                              | GI:45593128        |
|                            | NCBI                              | GI:33667040        |
|                            | NCBI                              | GI:33519450        |
|                            | NCBI                              | GI:28827807        |
|                            | NCBI                              | GI:21450725        |
|                            | NCBI                              | GI:21955154        |
|                            | NCBI                              | GI:28827789        |
|                            | NCBI                              | GI:28827813        |
|                            | NCBI                              | GI:5174617         |
|                            | NCBI                              | GI:11545912        |
|                            | NCBI                              | GI:40788015        |
|                            | NCBI                              | GI:4557749         |
|                            | NCBI                              | GI:4758752         |
|                            | NCBI                              | GI:30524928        |
|                            | NCBI                              | GI:25777608        |
|                            | NCBI                              | GI:28951071        |
| <hr/>                      |                                   |                    |
| <i>M. musculus</i> (mouse) | Ensembl release 38 'pep.abinitio' | GENSCAN00000154468 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000156858 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000160146 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000160147 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000161183 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000165190 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000165211 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000165287 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000168608 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000168611 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000168620 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000168988 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000170402 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000171143 |

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|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000180938 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000180939 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000183740 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000184049 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000185655 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000185657 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000189363 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000197447 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000198101 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000213501 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000214335 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000216425 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000217705 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000220435 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000220778 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000222274 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000224066 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000224634 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000225683 |
| <i>M. musculus</i> (mouse) | Ensembl release 38 'pep'          | ENSMUSP00000015866 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000022142 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000022144 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000023147 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000038186 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000041766 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000042759 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000043881 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000045077 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000046503 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000050252 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000050538 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000055747 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000058611 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000059637 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000060688 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000063752 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000065508 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000066841 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000069511 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000071685 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000072895 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000075794 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000077561 |

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|                            | Ensembl release 38 'pep'          | ENSMUSP00000078440 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000079455 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000080222 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000081819 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000083106 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000083143 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000083450 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000091588 |
|                            | Ensembl release 38 'pep'          | ENSMUSP00000094030 |
| <hr/>                      |                                   |                    |
| <i>C. familiaris</i> (dog) | Ensembl release 38 'pep.abinitio' | GENSCAN00000000648 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000000856 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000004214 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000008582 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000016719 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000019061 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000035249 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000036025 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000037452 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000041479 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000043070 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000044030 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000056756 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000057986 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000064727 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000068599 |
|                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000077417 |
| <hr/>                      |                                   |                    |
| <i>C. familiaris</i> (dog) | Ensembl release 38 'pep'          | ENSCAFP00000003638 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000003649 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000003659 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000003675 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000003834 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000003994 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000004572 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000009686 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000010005 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000010243 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000013161 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000014425 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000015745 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000017960 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000022816 |
|                            | Ensembl release 38 'pep'          | ENSCAFP00000026586 |

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|--------------------------------------------|-----------------------------------|--------------------|
|                                            | Ensembl release 38 'pep'          | ENSCAFP00000027946 |
|                                            | Ensembl release 38 'pep'          | ENSCAFP00000028434 |
| <i>G. gallus</i> (chicken)                 | Ensembl release 38 'pep.abinitio' | GENSCAN00000028018 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000043077 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000043886 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000058421 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000059775 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000070918 |
| <i>G. gallus</i> (chicken)                 | Ensembl release 38 'pep'          | ENSGALP0000001906  |
|                                            | Ensembl release 38 'pep'          | ENSGALP00000008260 |
|                                            | Ensembl release 38 'pep'          | ENSGALP00000010953 |
|                                            | Ensembl release 38 'pep'          | ENSGALP00000011599 |
|                                            | Ensembl release 38 'pep'          | ENSGALP00000012708 |
|                                            | Ensembl release 38 'pep'          | ENSGALP00000018785 |
| <i>X. tropicalis</i> (western clawed frog) | Ensembl release 38 'pep.abinitio' | GENSCAN0000004010  |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000013743 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000015124 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000016256 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000017302 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000026853 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000026863 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000026868 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000026883 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000030400 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000032287 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000035595 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000040978 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000047097 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000049710 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000069736 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000069752 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000070753 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000070784 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000070793 |
|                                            | Ensembl release 38 'pep.abinitio' | GENSCAN00000070809 |
| <i>X. tropicalis</i> (western clawed frog) | Ensembl release 38 'pep'          | ENSXETP00000009512 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000019175 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000019188 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000019215 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000019240 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000030524 |
|                                            | Ensembl release 38 'pep'          | ENSXETP00000040025 |

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|------------------------------------------|-----------------------------------|-------------------------|
|                                          | Ensembl release 38 'pep'          | ENSXETP00000046634      |
|                                          | Ensembl release 38 'pep'          | ENSXETP00000047642      |
|                                          | Ensembl release 38 'pep'          | ENSXETP00000054623      |
| <i>D. rerio</i> (zebrafish)              | Ensembl release 38 'pep.abinitio' | GENSCAN00000002116      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000002446      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000004164      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000012757      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000013244      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000013254      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000017201      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000018328      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000025665      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000025668      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000026656      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000031000      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000031330      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000032635      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000032637      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000037878      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000038851      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000042051      |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCAN00000044593      |
| <i>D. rerio</i> (zebrafish)              | Ensembl release 38 'pep'          | ENDARP00000013454       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000015139       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000035227       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000052744       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000056172       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000056257       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000056299       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000056352       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000061179       |
|                                          | Ensembl release 38 'pep'          | ENDARP00000065811       |
| <i>F. rubripes</i> (Japanese pufferfish) | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000000062 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000000378 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000000479 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000000561 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000001128 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000001347 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000002016 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000002747 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000002988 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003023 |

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| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003298 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003348 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003741 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003748 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003763 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003765 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003900 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003907 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000003955 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000004029 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000004479 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000004624 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000004706 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000005037 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000005498 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000005670 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000005904 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000006151 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000006286 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000006462 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000006813 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000007471 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000007657 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000007821 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000008271 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000008401 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000009090 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000009451 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010357 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010626 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010720 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010721 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010842 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000010980 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000011252 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000011312 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000011756 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000012164 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000012167 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000012711 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000012824 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000012992 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000013036 |

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| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000013068 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000013146 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000013669 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000013783 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000014693 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015367 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015400 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015449 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015901 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015922 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000015945 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016037 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016062 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016103 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016427 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016569 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016678 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016693 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000016974 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000017428 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000017475 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000017698 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000018105 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000018248 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019003 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019210 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019312 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019448 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019803 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000019921 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000020017 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000020174 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000020748 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000020805 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021001 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021249 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021433 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021810 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021825 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000021896 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000022639 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000023026 |
| Ensembl release 38 'pep.abinitio' | GENSCANSLICE00000023370 |



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|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000023709 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000024497 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000024515 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000024776 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000024783 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000024880 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025205 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025220 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025373 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025507 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025734 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000025871 |
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|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000027504 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000027696 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000027895 |
|                                          | Ensembl release 38 'pep.abinitio' | GENSCANSlice00000028565 |
| <i>F. rubripes</i> (Japanese pufferfish) | Ensembl release 38 'pep'          | NEWSINFRUP00000127580   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000129039   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000130946   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000132575   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000133735   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000134480   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000135500   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000141434   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000142189   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000143465   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000146443   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000146538   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000153199   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000155380   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000155383   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000156887   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000157307   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000157696   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000158091   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000159769   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000159770   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000159961   |
|                                          | Ensembl release 38 'pep'          | NEWSINFRUP00000170468   |

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| Ensembl release 38 'pep' | NEWSINFRUP00000175400 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177426 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177556 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177567 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177706 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177793 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177812 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177839 |
| Ensembl release 38 'pep' | NEWSINFRUP00000177848 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178067 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178091 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178122 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178168 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178703 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178725 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178774 |
| Ensembl release 38 'pep' | NEWSINFRUP00000178972 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179032 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179096 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179161 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179164 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179178 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179535 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179663 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179697 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179886 |
| Ensembl release 38 'pep' | NEWSINFRUP00000179927 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180381 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180502 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180592 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180612 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180718 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180792 |
| Ensembl release 38 'pep' | NEWSINFRUP00000180928 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181102 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181110 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181427 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181430 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181465 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181846 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181929 |
| Ensembl release 38 'pep' | NEWSINFRUP00000181970 |
| Ensembl release 38 'pep' | NEWSINFRUP00000182093 |

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|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182112       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182122       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182203       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182204       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182280       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182339       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182422       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000182506       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000183002       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000183047       |
|                                           | Ensembl release 38 'pep'               | NEWSINFRUP00000183080       |
| <hr/>                                     |                                        |                             |
| <i>T. nigroviridis</i> (green pufferfish) | Ensembl release 38 'pep.abinitio'      | GIDT00029328001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00002781001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00007551001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00014284001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00020363001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00020484001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00022202001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GSCT00023404001             |
|                                           | Ensembl release 38 'pep.abinitio'      | GWSHT00007909001            |
|                                           | Ensembl release 38 'pep.abinitio'      | GWSHT00009127001            |
|                                           | Ensembl release 38 'pep.abinitio'      | GWSHT00009665001            |
| <hr/>                                     |                                        |                             |
| <i>T. nigroviridis</i> (green pufferfish) | Ensembl release 38 'pep'               | GSTENP00000269001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00000753001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00005101001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00005304001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00005633001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00010767001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00010923001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00012155001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00012203001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00021862001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00024060001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00024994001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00026128001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00033222001           |
|                                           | Ensembl release 38 'pep'               | GSTENP00034770001           |
| <hr/>                                     |                                        |                             |
| <i>B. floridae</i> (amphioxus)            | JGI <i>B. floridae</i> v1.0 annotation | estExt_fgenes2_pg.C_1870006 |
|                                           | JGI <i>B. floridae</i> v1.0 annotation | estExt_fgenes2_pg.C_2190014 |
|                                           | JGI <i>B. floridae</i> v1.0 annotation | estExt_fgenes2_pg.C_3710025 |
|                                           | JGI <i>B. floridae</i> v1.0 annotation | estExt_fgenes2_pg.C_400088  |
|                                           | JGI <i>B. floridae</i> v1.0 annotation | estExt_fgenes2_pg.C_4110028 |

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|----------------------------------------|--------------------------------|
| JGI B. <i>floridae</i> v1.0 annotation | estExt_fgenesh2_pg.C_4900008   |
| JGI B. <i>floridae</i> v1.0 annotation | estExt_fgenesh2_pg.C_620041    |
| JGI B. <i>floridae</i> v1.0 annotation | estExt_fgenesh2_pg.C_90156     |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_104000024 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_108000006 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_108000007 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_110000051 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_111000114 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_111000115 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_111000116 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_113000055 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_113000056 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_113000058 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_129000001 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_129000002 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_136000031 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_14000015  |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_148000014 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_154000048 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_155000019 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_155000031 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_157000018 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_157000063 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_173000009 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000007 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000009 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000013 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000016 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000018 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000032 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000037 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000038 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000040 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000042 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_187000044 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_190000004 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_190000005 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_190000006 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_190000007 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_19000229  |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_199000027 |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_20000114  |
| JGI B. <i>floridae</i> v1.0 annotation | fgenesh2_pg.scaffold_21000036  |

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| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_21000095  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_214000028 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_214000029 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_219000011 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_219000021 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_219000022 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_22000003  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_22000004  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_229000061 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_23000133  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_252000045 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000048 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000049 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000050 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000051 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000052 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000054 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_253000055 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_269000046 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_290000018 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_290000019 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_302000017 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_312000041 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_317000043 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_317000045 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_344000020 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_344000021 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_344000022 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_344000023 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_371000017 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_371000018 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_377000005 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_377000006 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_39000118  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_4000241   |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_437000014 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_444000045 |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_52000071  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_62000043  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_67000004  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_7000192   |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_73000041  |
| JGI <i>B. floridae</i> v1.0 annotation | fgenes2_pg.scaffold_75000105  |

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| JGI <i>B. floridae</i> v1.0 annotation                                            | fgenesh2_pg.scaffold_862000001 |
| JGI <i>B. floridae</i> v1.0 annotation                                            | fgenesh2_pg.scaffold_929000001 |
| JGI <i>B. floridae</i> v1.0 annotation                                            | fgenesh2_pg.scaffold_99000003  |
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| <i>C. intestinalis</i> (transparent sea squirt) Ensembl release 38 'pep.abinitio' | GENEFINDER00000103062          |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000077531             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000077820             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000078509             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000080663             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000080805             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000081083             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000081135             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000081180             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000081263             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000081587             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000083675             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000084617             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000084811             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000084814             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000087200             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088102             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088107             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088147             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088157             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088188             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088192             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000088703             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000089014             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000089929             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000090765             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000092879             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000092883             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000093556             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000093819             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000094267             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000094367             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000094602             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000094610             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000095386             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000096219             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000096363             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000097885             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000099153             |
| Ensembl release 38 'pep.abinitio'                                                 | GENSCAN00000099417             |

|                                                 |                                          |                              |
|-------------------------------------------------|------------------------------------------|------------------------------|
|                                                 | Ensembl release 38 'pep.abinitio'        | GENSCAN00000099846           |
|                                                 | Ensembl release 38 'pep.abinitio'        | GENSCAN00000100461           |
|                                                 | Ensembl release 38 'pep.abinitio'        | GENSCAN00000100479           |
|                                                 | Ensembl release 38 'pep.abinitio'        | GENSCAN00000102260           |
|                                                 | Ensembl release 38 'pep.abinitio'        | SNAP_CIONA00000038625        |
| <hr/>                                           |                                          |                              |
| <i>C. intestinalis</i> (transparent sea squirt) | Ensembl release 38 'pep'                 | ENSCINP00000006173           |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000021190          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000023281          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000024089          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000025840          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000026828          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000027491          |
|                                                 | Ensembl release 38 'pep'                 | ENSCINP000000027614          |
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| <i>S. purpuratus</i> (purple sea urchin)        | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_10414_genscan_15 |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_10489_genscan_2  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_10511_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_11349_genscan_2  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12165_genscan_5  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12167_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12710_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12736_genscan_10 |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12740_genscan_7  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12740_genscan_11 |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_12759_genscan_2  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_13740_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_13748_genscan_4  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_140_genscan_1    |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_14216_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_14517_genscan_2  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_14522_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_14522_genscan_4  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_14543_genscan_5  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_15130_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_15458_genscan_7  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_15493_genscan_3  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_16305_genscan_14 |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_16317_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_16322_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_16332_genscan_1  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_16332_genscan_2  |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_1707_genscan_2   |
|                                                 | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_17186_genscan_3  |

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|------------------------------------------|-----------------------------|
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_17186_gencode_5 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_17255_gencode_2 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_17288_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_17313_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_18023_gencode_5 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_18028_gencode_3 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_19100_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_19970_gencode_6 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_20012_gencode_3 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_20805_gencode_4 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_20823_gencode_4 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_20887_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_20917_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_21543_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_22362_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_22989_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23006_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23040_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23088_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_2320_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23796_gencode_4 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23812_gencode_6 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23819_gencode_2 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_23840_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_2420_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_2440_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_24479_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_2455_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_24589_gencode_2 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_25081_gencode_2 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_25664_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_26364_gencode_3 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_26366_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_26367_gencode_3 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_26655_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_27021_gencode_2 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_27025_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_27055_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_27458_gencode_1 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28085_gencode_3 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28085_gencode_7 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28087_gencode_4 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28090_gencode_5 |



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| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28090_gencode_7  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28098_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28157_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_28817_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_29780_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_29780_gencode_8  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_29804_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_30619_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_30669_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_31377_gencode_36 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_31379_gencode_27 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_31858_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_32333_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_32338_gencode_6  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_32350_gencode_6  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_32393_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_32404_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_33329_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_33368_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_34023_gencode_12 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_34024_gencode_20 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_3409_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_3409_gencode_15  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_3451_gencode_2   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_34528_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_34693_gencode_70 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_34798_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_35449_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_36392_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_36408_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_36451_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_37250_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_37299_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_37344_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_39235_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_39362_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_39383_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_40038_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_40042_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_40073_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_41305_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_41638_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_41665_gencode_1  |

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|------------------------------------------|------------------------------|
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_41851_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_42453_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_42466_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_4301_gencode_16  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_4320_gencode_5   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_43339_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_43351_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_43505_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_43908_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_44179_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_44503_gencode_10 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_44576_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_45213_gencode_12 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_45221_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_45260_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_45356_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_45600_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_46118_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_4661_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_47500_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_47551_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48168_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48183_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48364_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48970_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48973_gencode_6  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_48981_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_49010_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_49024_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_4914_gencode_15  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_4953_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_50144_gencode_34 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_50181_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_50950_gencode_5  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_50956_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_51007_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_51834_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_51880_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_52510_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_53427_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_55216_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_55236_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_55356_gencode_1  |

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| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_55386_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_55868_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_56606_gencode_12 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_56607_gencode_14 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_56617_gencode_6  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_56642_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57313_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57313_gencode_5  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57333_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57338_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57395_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57984_gencode_11 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57984_gencode_20 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_57989_gencode_10 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58011_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_5802_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_5802_gencode_3   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58033_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58053_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_5819_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58230_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58801_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_58899_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_59540_gencode_79 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_59573_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_59587_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_6_gencode_17     |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_60310_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_60334_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_61111_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_61191_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_61305_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_61384_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62_gencode_1     |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62067_gencode_9  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62090_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62111_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62116_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62135_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62894_gencode_22 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_62903_gencode_11 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_63832_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_64463_gencode_1  |

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| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_64463_gencode_7  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_64512_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_6483_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_6493_gencode_1   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65158_gencode_5  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65176_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65179_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65194_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65233_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65883_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65899_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_65931_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_66668_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_66689_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_66694_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_67888_gencode_15 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_67890_gencode_12 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_67893_gencode_9  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_67988_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_68068_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_68405_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_68408_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_68438_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_69289_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_69329_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_69893_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_69893_gencode_9  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_69944_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70594_gencode_6  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70596_gencode_9  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70600_gencode_15 |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70607_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70618_gencode_2  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70618_gencode_4  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70625_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70650_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_70666_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_71276_gencode_3  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_71286_gencode_1  |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_7178_gencode_4   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_7181_gencode_6   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_7181_gencode_8   |
| HGSC Spur_v2.0 assembly (gencode result) | Scaffold_v2_71911_gencode_3  |

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| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_71911_genscan_4  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_71919_genscan_10 |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_71939_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_72747_genscan_4  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_73334_genscan_41 |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_73360_genscan_4  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_74148_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_74949_genscan_3  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_74949_genscan_5  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_74957_genscan_2  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_74970_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75014_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75019_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75773_genscan_33 |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75782_genscan_2  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75783_genscan_3  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75783_genscan_5  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75790_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_75869_genscan_3  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_76009_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_76987_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_77015_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_77104_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_77843_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_77852_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_78432_genscan_2  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_78469_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_78576_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_78944_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_79438_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_79474_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_79557_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_80270_genscan_35 |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_80293_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_80897_genscan_2  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_8124_genscan_6   |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_81741_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_81756_genscan_4  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_81772_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_82264_genscan_5  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_82274_genscan_2  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_82299_genscan_1  |
| HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_82300_genscan_6  |

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|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_82342_genscan_2  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_828_genscan_2    |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_83189_genscan_10 |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_83189_genscan_15 |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_83194_genscan_3  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_83194_genscan_11 |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_83200_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_84490_genscan_5  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_84497_genscan_2  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_84497_genscan_4  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85338_genscan_11 |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85343_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85347_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85352_genscan_2  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85352_genscan_4  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_85465_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_8615_genscan_1   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_86249_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_87215_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_87836_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_88554_genscan_6  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_88563_genscan_7  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_88590_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_89442_genscan_2  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_89449_genscan_7  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_89933_genscan_1  |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_8998_genscan_3   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9008_genscan_2   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9764_genscan_6   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9772_genscan_2   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9777_genscan_2   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9790_genscan_2   |
|                                          | HGSC Spur_v2.0 assembly (genscan result) | Scaffold_v2_9833_genscan_1   |
| <hr/>                                    |                                          |                              |
| <i>S. purpuratus</i> (purple sea urchin) | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00001                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00015                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00457                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00523                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00672                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00738                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00816                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00852                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00863                 |
|                                          | HGSC <i>S. purpuratus</i> GLEAN3         | GLEAN3_00896                 |

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| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01016 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01054 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01210 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01444 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01548 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01591 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01608 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01781 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_01884 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02086 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02272 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02372 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02436 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02641 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02758 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02868 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02888 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_02962 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03186 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03200 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03247 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03303 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03366 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03539 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03553 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03640 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03715 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03762 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03797 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_03934 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04012 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04043 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04053 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04165 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04343 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_04872 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05301 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05383 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05410 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05462 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05581 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05609 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05732 |

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| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_05993 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06016 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06203 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06229 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06456 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06610 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_06733 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_07446 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_07561 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08029 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08283 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08382 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08431 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08442 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08498 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08547 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08597 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08707 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_08833 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_09017 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_09111 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_09488 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_09659 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10039 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10053 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10091 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10097 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10153 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_10667 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11088 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11097 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11439 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11441 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11776 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11827 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_11855 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13038 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13206 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13465 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13504 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13521 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13665 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_13952 |



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| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14112 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14122 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14128 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14495 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14503 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14530 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_14761 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15033 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15052 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15105 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15205 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15206 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15298 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15340 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15481 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_15972 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16060 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16257 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16759 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16783 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16794 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16810 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16921 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_16926 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17038 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17054 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17196 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17245 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17341 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17505 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17708 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_17993 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_18384 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_19347 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_19497 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_19696 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_19699 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_19700 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20240 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20380 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20436 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20561 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20569 |

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| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20661 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_20916 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_21243 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_21447 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_21478 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_21844 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_21930 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22001 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22130 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22294 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22394 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22412 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22442 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22564 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_22780 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23120 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23183 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23474 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23532 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23550 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_23642 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_24020 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_24649 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_24709 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_24975 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25077 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25138 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25166 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25167 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25179 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25204 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25600 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25680 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25914 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_25948 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26020 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26036 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26189 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26304 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26400 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_26622 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_27035 |
| HGSC <i>S. purpuratus</i> GLEAN3 | GLEAN3_27207 |

|                                   |                                                        |                         |
|-----------------------------------|--------------------------------------------------------|-------------------------|
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27300            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27511            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27513            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27610            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27762            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27808            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_27858            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28060            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28294            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28387            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28433            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28483            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28485            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28595            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28630            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28681            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28805            |
|                                   | HGSC <i>S. purpuratus</i> GLEAN3                       | GLEAN3_28820            |
| <i>N. vectensis</i> (sea anemone) | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_101_genscan_6  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_1163_genscan_1 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_117_genscan_35 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_117_genscan_38 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_1400_genscan_2 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_150_genscan_22 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_150_genscan_9  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_168_genscan_35 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_179_genscan_43 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_179_genscan_46 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_1867_genscan_3 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_189_genscan_19 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_189_genscan_29 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_189_genscan_31 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_189_genscan_35 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_192_genscan_42 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_289_genscan_23 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_291_genscan_5  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_319_genscan_9  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_32_genscan_11  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_32_genscan_1   |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_32_genscan_5   |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_393_genscan_12 |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_402_genscan_6  |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_402_genscan_9  |

|                                   |                                                        |                               |
|-----------------------------------|--------------------------------------------------------|-------------------------------|
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_402_genscan_4        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_405_genscan_5        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_41_genscan_3         |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_41_genscan_7         |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_41_genscan_57        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_417_genscan_2        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_417_genscan_4        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_417_genscan_9        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_417_genscan_14       |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_474_genscan_7        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_474_genscan_13       |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_474_genscan_10       |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_50_genscan_66        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_6_genscan_255        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_70_genscan_97        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_70_genscan_98        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_91_genscan_12        |
|                                   | JGI <i>N. vectensis</i> v1.0 assembly (genscan result) | scaffold_91_genscan_13        |
| <hr/>                             |                                                        |                               |
| <i>N. vectensis</i> (sea anemone) | JGI <i>N. vectensis</i> v1.0 annotation                | estExt_fgenes1_pg.C_11630001  |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | estExt_fgenes1_pg.C_3190006   |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | estExt_fgenes1_pg.C_320002    |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | estExt_fgenes1_pg.C_320006    |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | estExt_fgenes1_pg.C_700066    |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | fgenes1_pg.scaffold_192000040 |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | fgenes1_pg.scaffold_291000006 |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | fgenes1_pg.scaffold_405000006 |
|                                   | JGI <i>N. vectensis</i> v1.0 annotation                | fgenes1_pg.scaffold_474000013 |

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To get a more detailed view of NACHT domain containing sequences in the selected species, different protein databases were checked and all sequences that could be confirmed by Pfam Protein Search or NCBI Conserved Domain Search under the default threshold were listed above.