Tree scale: 0.1
Pan gi332846409 zincfinger3
Tribolium gi270004902 Znfinger2
Pan gi114557210 Lhx8
Nematostella gi82621617 LHX6 8
Tribolium gi270004863 arrowhead
Tribolium gi295798064 lim3
Amphimedon gi340376253 Lhx3
Tribolium gi270009219 lim1
Nematostella gi229619776 LIM1
Pan gi76573889 Lhx1
Pan gi114615795 Pax4
Pan gi114593819 Paired
Tribolium gi86515406 orthodenticle2
Amphimedon gi184191101 NK5 6 7b
Amphimedon gi184191103 NK5 6 7
Pan gi332870059 GBX1
Pan gi305410868 MSX1
Nematostella gi168693291 Msx
Tribolium gi91091012 AGAP003670PA
Amphimedon gi340375568 hypothetical
Amphimedon gi167859579 Prox2
Nematostella gi82621539 VAX ANTP
Nematostella gi74039490 moxC
Nematostella gi74039492 moxD
Outgroup
Mle POU1b ML18891a
Pleurobrachia sp POU1
Mle POU1 ML063328a
Mmu POU1f1 ENSMUSP00000075258
Xtr POU1f1 373727
Hsa POU1f1 ENSP00000342931
Rhabdocalyptus dawsoni POU1a
Rhabdocalyptus dawsoni POU1b
Acarnus sp POU1
Aqu POU1 gi167859584
Haliclona sp POU1
Oca POU1 g4621.t1
Cte POU1 gw1.80.17.1
Aurelia sp1 POU1 Asp GU296360.1
Nvectensis 531288
Agaricia sp POU1
Fungia sp POU1
POU 1
Aqu 1.225401
Mle POU6 ML221311a
Hma Hma2.205811
Aurelia sp1 POU6 Asp contig12522
Mmu POU6f1 ENSMUSP00000073504
Hsa POU6f1 ENSP00000373895
Xtr POU6f1 378691
Xtr POU6f2 381941
Mmu POU6f2 ENSMUSP00000037468
Hsa POU6f2 ENSP00000344536
Spu XP785865.2
Dme CG11641
Tca XP968932.1
Malacoceros fuliginosus POU6 2015 C46781.4.T2
Lgi 554902
Cte estExt fgenesh1 pg.C 1470009
POU 6
Oca POU3 g6880.t1
Cel ceh18 WBGene00000441
Dme nubbin CG6246
Dme PDM2 CG12287
Tca XP968439.1
Cte 156286
Lgi 576912
Malacoceros fuliginosus POU2 2015 C45785.12.T2
Spu 001015510 NP.1
Xtr POU2f3 396012
Mmu POU2f3 ENSMUSP00000034513
Hsa POU2f3 ENSP00000260264
Mmu POU2f1 ENSMUSP00000027850
Xtr POU2f1 396832
Hsa POU2f1 ENSP00000356836
Xtr POU2f2 390172
Mmu POU2F2
Hsa POU2f2 ENSP00000292077
POU 2
Xtr 373349
Xtr POU5f1 379114
Xtr oct25 379118
Mmu POU5f1 ENSMUSP00000025271
Hsa POU5f1 ENSP00000259915
Hsa POU5f2 NM 153216.1
Mmu POU5f2 NM 029315.1
POU 5
Cel ceh6 POU3 WBGene00000431
Hec Polynem
Aurelia sp1 POU3 Asp contig24139
Rhabdocalyptus dawsoni POU3
Notoplana acticola POU3
Stylochus tripartitus POU3
Nvectensis 534080
Nvectensis 531381
Agaricia sp POU3
Anthopleura elegantissima POU3
Crassostrea gigas POU3
Tad 16489 gw1.5.1356.1
Spu XP782909.2
Cte gw1.32.54.1
Lgi 576885
Malacoceros fuliginosus POU3 2013 30438.1
Dme VVL CG10037
Tca XP968364.1
Convolutriloba sp POU3
Nereis virens POU3
Kelletia kelletii POU3a
Kelletia kelletii POU3b
Mmu POU3f3 ENSMUSP00000052088
Xtr POU3f3 395146
Hsa POU3f3 ENSP00000355001
Mmu POU3f2 ENSMUSP00000063809
Xtr POU3f2 388482
Hsa POU3f2 ENSP00000329170
Hsa POU3f4 ENSP00000362296
Mmu POU3f4 ENSMUSP00000077354
Xtr POU3f4 394614
Xtr POU3f1 375233
Hsa POU3f1 ENSP00000362103
Mmu POU3f1 NP 035271.1
POU 3
Transennella sp POU4
Taenia asiatica unnamed protein product VDK35570.1
Hydatigera taeniaeformis unnamed protein product VDM34123.1
Mesocestoides corti unnamed protein product VDD80911.1
Rodentolepis nana unnamed protein product VDO03181.1
Hymenolepis microstoma Pou4 CDS27440.1
Echinococcus multilocularis class IV POU transcription factor CDS35836.1
Echinococcus granulosus POU domain-containing transcription factor XP 024352836.1
Hymenolepis diminuta unnamed protein product VDL62149.1
Stylochus tripartitus POU4a
Stylochus tripartitus POU4b
Macrostomum lignano hypothetical protein BOX15 Mlig000992g3 PAA64001.1
Schmidtea mediterranea pou4l-1 partial AIX99546.1
Echinostoma caproni unnamed protein product VDP70025.1
Acarnus sp POU4a
Tethya aurantia POU4
Notoplana acticola POU4
Stylochus tripartitus POU4c
Helobdella robusta hypothetical protein HELRODRAFT 89499 XP 009029470.1
Helobdella robusta hypothetical protein HELRODRAFT 66135 XP 009019393.1
Nereis virens POU4
Platynereis dumerilii Brn3 partial AGC12567.1
Cte e gw1.63.59.1
Spongilla sp POU4
Malacoceros fuliginosus POU4 2015 C20802.0.T2
Phragmatopoma californica POU4
Hydroides sp POU4
Acarnus sp POU4b
Octopus vulgaris POU domain class 4 transcription factor 3-like XP 029643943.1
Octopus bimaculoides PREDICTED POU domain class 4 transcription factor 3-like XP 014767503.1
Crassostrea gigas PREDICTED POU domain class 4 transcription factor 3 isoform X1 XP 011456596.1
Crassostrea virginica inhibitory POU protein-like isoform X3 XP 022327291.1
Mizuhopecten yessoensis POU domain class 4 transcription factor 3-like isoform X1 XP 021340548.1
Pecten maximus POU-IV a CBY77550.2
Lgi 567939
Pomacea canaliculata POU domain class 4 transcription factor 3-like isoform X1 XP 025087876.1
Kelletia kelletii POU4
Acanthina sp POU4
Elysia chlorotica hypothetical protein EGW08 009770 RUS82464.1
Biomphalaria glabrata PREDICTED brain-specific homeobox POU domain protein 3-like XP 013082696.1
Aplysia californica PREDICTED brain-specific homeobox POU domain protein 3-like XP 005112174.2
Dme acj6 POUI CG9151
Tca XP972320.1
Spu XP786727.1
Convolutriloba sp POU4
Cel unc86 WBGene00006818
Mmu POU4f1 ENSMUSP00000060798
Hsa POU4f1 ENSP00000366413
Xtr POU4f1 387053
Xtr 374798
Mmu POU4F2 ENSMUSP00000034115
Xtr POU4f2 374486
Hsa POU4f2 ENSP00000281321
Xtr POU4f3 379081
Mmu POU4f3 ENSMUSP00000025374
Hsa POU4f3 ENSP00000230732
Tad 25765 e gw1.5.434.1
Nvectensis 513510
Aurelia sp1 POU4 Asp contig11708
Pelagia colorata POU4
Hma Hma2.234364
POU 4