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| --- | --- | --- | --- | --- | --- |
|  | **DYRK classification** | | | | |
| **Taxonomy and species** | **Class I** | **Class II** | **YAK** | **HIPK** | **PRP4** |
| **Unikonts** | | | | | |
| *Caenorhabditis elegans* | mbk-1\_Ce | mbk-2\_Ce |  | hpk-1\_Ce | Prp4\_Dd |
| *Ciona intestinalis* | ENSCINP00000015935 | ENSCINP00000015725 |  |  | ENSCINP00000002030 |
| *Dictyostelium discoideum* | Dyrk1\_Dd | Dyrk2\_Dd | YakA\_Dd |  | F22D6.5\_Ce |
| *Drosophila melanogaster* | mnb\_Dm | smi35A\_Dm, Dyrk3\_Dm |  | CG17090\_Dm | CG7028\_Dm |
| *Entamoeba histolytica* | 48.m00203 |  | 128.m00114 |  |  |
| *Gallus gallus* | ENSGALP00000025819 | ENSGALP00000001263, ENSGALP00000016084 |  | ENSGALP00000002998, ENSGALP00000020844, ENSGALP00000019093 | ENSGALP00000020874 |
| *Homo sapiens* | DYRK1A\_Hs, DYRK1B\_Hs | DYRK2\_Hs, DYRK3\_Hs, DYRK4\_Hs |  | HIPK1\_Hs, HIPK2\_Hs, HIPK3\_Hs, HIPK4\_Hs | PRP4\_Hs |
| *Monosiga brevicollis* | Monbr\_14418, Monbr\_7973 | Monbr\_32541 |  |  | Monbr\_20788 |
| *Mus musculus* | DYRK1A\_Mm, DYRK1B\_Mm | DYRK2\_Mm, DYRK3\_Mm, DYRK4\_Mm |  | HIPK1\_Mm, HIPK2\_Mm, HIPK3\_Mm, HIPK4\_Mm | PRP4\_Mm |
| *Nematostella vectensis* | Nemve\_20898 | Nemve\_120202, Nemve\_200667 |  | Nemve\_81131 | Nemve\_86706 |
| *Saccharomyces cerevisiae* |  |  | YAK1\_Sc |  |  |
| *Xenopus tropicalis* | ENSXETP00000028566 | ENSXETP00000051090, ENSXETP00000015969 |  | ENSXETP00000031566, ENSXETP00000003569 | ENSXETP00000024917 |
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| **Chromalveolates** |  |  |  |  |  |
| *Phaeodactylum tricornutum* | Phatr2\_14553 |  | Phatr2\_1758 |  | Phatr2\_47886 |
| *Phytophthora ramorum* | Phyra1\_1\_96609, Phyra1\_1\_83441 | Phyra1\_1\_94022 |  |  |  |
| *Phytophthora sojae* | Physo1\_1\_158591 | Physo1\_1\_133127 |  |  |  |
| *Thalassiosira pseudonana* | Thaps3\_264854 |  | Thaps3\_37862 |  | Thaps3\_269821 |
| **Excavates** | | | | | |
| *Leishmania major* |  | LmjF33.1830 |  |  |  |
| *Trypanosoma brucei* |  | Tb11.02.0640 |  |  |  |
| *Trypanosoma cruzi* |  | Tc00.1047053510431.140 |  |  |  |
| **Plants** | | | | | |
| *Arabidopsis thaliana* |  |  | AT5G35980.1 |  | AT3G53640.1, AT1G13350.1, AT3G25840.1 |
| *Chlamydomonas reinhardtii* |  | Chlre3\_130269 |  |  | Chlre3\_112425 |
| *Cyanidioschyzon merolae* |  |  | CMH056C |  |  |
| *Ostreococcus lucimarinus* |  |  | Ost9901\_3\_37908 |  | Ost9901\_3\_39942 |
| *Ostreococcus tauri* |  |  | Ostta4\_19878 |  | Ostta4\_14867 |
| *Physcomitrella patens* |  |  | Phypa1\_1\_116511, Phypa1\_1\_142488, Phypa1\_1\_136860, Phypa1\_1\_153778, Phypa1\_1\_111904, Phypa1\_1\_111856 |  | Phypa1\_1\_146901, Phypa1\_1\_144337 |
| *Populus trichocarpa* |  |  | Poptr1\_1\_242255, Poptr1\_1\_248903 |  | Poptr1\_1\_225575, Poptr1\_1\_564516 |
| *Volvox carteri* |  | Volca1\_61790 | Volca1\_30949 |  |  |