Table S3: Curated developmental time for species (Ensembl version 95) and their corresponding median gene length

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Genome data source | (Developmental time)Days | Class | Order | Cell-Types\_Vogel-valentine | Median gene length |
| acarolinensis\_gene\_ensembl | 27 | Reptilia | Squamata | 125 | 16406.5 |
| amelanoleuca\_gene\_ensembl | 120 | Mammalia | Ursidae | 145 | 14032.5 |
| amexicanus\_gene\_ensembl | 1 | Actinopterygii | Characiformes | 135 | 11511.5 |
| anancymaae\_gene\_ensembl | 133 | Mammalia | Primates | 215 | 28504 |
| aplatyrhynchos\_gene\_ensembl | 30 | Aves | Anseriformes | 175 | 9141 |
| btaurus\_gene\_ensembl | 281 | Mammalia | Artiodactyla | 200 | 15283.5 |
| caperea\_gene\_ensembl | 68 | Mammalia | Rodentia | 145 | 14649 |
| catys\_gene\_ensembl | 165 | Mammalia | Primates | 215 | 32312 |
| ccapucinus\_gene\_ensembl | 167.5 | Mammalia | Primates | 215 | 29218 |
| cchok1gshd\_gene\_ensembl | 16 | Mammalia | Rodentia | 145 | 17511 |
| ccrigri\_gene\_ensembl | 16 | Mammalia | Rodentia | 145 | 18414 |
| celegans\_gene\_ensembl | 0.5 | Chromadorea | Rhabditida | 16 | 2679 |
| cfamiliaris\_gene\_ensembl | 63 | Mammalia | Carnivora | 200 | 19941 |
| chircus\_gene\_ensembl | 150 | Mammalia | Artiodactyla | 200 | 21632 |
| choffmanni\_gene\_ensembl | 259 | Mammalia | Pilosa | 200 | 14475 |
| cintestinalis\_gene\_ensembl | 0.729 | Ascidiacea | Enterogona | 38 | 2620.5 |
| cjacchus\_gene\_ensembl | 150 | Mammalia | Primates | 215 | 31177 |
| clanigera\_gene\_ensembl | 111 | Mammalia | Rodentia | 145 | 25637 |
| cpalliatus\_gene\_ensembl | 162.5 | Mammalia | Primates | 215 | 28864 |
| cporcellus\_gene\_ensembl | 68 | Mammalia | Rodentia | 145 | 22711 |
| csabaeus\_gene\_ensembl | 165 | Mammalia | Primates | 215 | 17857 |
| csavignyi\_gene\_ensembl | 0.5 | Ascidiacea | Enterogona | 38 | 6542 |
| csyrichta\_gene\_ensembl | 182 | Mammalia | Primates | 215 | 22682 |
| dmelanogaster\_gene\_ensembl | 1 | Insecta | Diptera | 90 | 4166 |
| dnovemcinctus\_gene\_ensembl | 120 | Mammalia | Cingulata | 200 | 14420 |
| dordii\_gene\_ensembl | 29 | Mammalia | Rodentia | 145 | 19923 |
| drerio\_gene\_ensembl | 3 | Actinopterygii | Cypiniformes | 135 | 18232 |
| eburgeri\_gene\_ensembl | 150 | Myxini | Myxiniformes | 125 | 64084.5 |
| ecaballus\_gene\_ensembl | 338 | Mammalia | Perissodactyla | 200 | 13681.5 |
| eeuropaeus\_gene\_ensembl | 35 | Mammalia | Eulipotyphla | 200 | 17537 |
| etelfairi\_gene\_ensembl | 63 | Mammalia | Afrosoricida | 200 | 15604 |
| falbicollis\_gene\_ensembl | 16 | Aves | Passeriformes | 175 | 12637 |
| fcatus\_gene\_ensembl | 65 | Mammalia | Carnivora | 200 | 27833 |
| fdamarensis\_gene\_ensembl | 84 | Mammalia | Rodentia | 145 | 20308 |
| gaculeatus\_gene\_ensembl | 8 | Actinopterygii | Gastrosteiformes | 135 | 5143.5 |
| ggallus\_gene\_ensembl | 21 | Aves | Galliformes | 175 | 11342 |
| ggorilla\_gene\_ensembl | 270 | Mammalia | Primates | 215 | 28162 |
| gmorhua\_gene\_ensembl | 21 | Actinopterygii | Gadiformes | 135 | 6338.5 |
| hfemale\_gene\_ensembl | 70 | Mammalia | Rodentia | 145 | 19813 |
| hmale\_gene\_ensembl | 70 | Mammalia | Rodentia | 145 | 17269 |
| hsapiens\_gene\_ensembl | 274 | Mammalia | Primates | 215 | 34984 |
| itridecemlineatus\_gene\_ensembl | 40 | Mammalia | Rodentia | 145 | 22244.5 |
| jjaculus\_gene\_ensembl | 34 | Mammalia | Rodentia | 145 | 21692 |
| lafricana\_gene\_ensembl | 670 | Mammalia | Proboscidea | 200 | 16007 |
| lchalumnae\_gene\_ensembl | 420 | Sarcopterygii | ‎Coelacanthiformes | 150 | 23870 |
| loculatus\_gene\_ensembl | 7 | Actinopterygii | Semionotiformes | 135 | 13281 |
| mauratus\_gene\_ensembl | 18 | Mammalia | Rodentia | 145 | 19634 |
| mcaroli\_gene\_ensembl | 18.1 | Mammalia | Rodentia | 145 | 27105 |
| mdomestica\_gene\_ensembl | 14 | Mammalia | Didelphimorphia | 200 | 19506.5 |
| mfascicularis\_gene\_ensembl | 165 | Mammalia | Primates | 215 | 32198 |
| mfuro\_gene\_ensembl | 42 | Mammalia | Carnivora | 200 | 15474 |
| mgallopavo\_gene\_ensembl | 28 | Aves | Galliformes | 175 | 11180 |
| mleucophaeus\_gene\_ensembl | 179 | Mammalia | Primates | 215 | 29223 |
| mlucifugus\_gene\_ensembl | 50 | Mammalia | Chiroptera | 200 | 9982 |
| mmulatta\_gene\_ensembl | 165 | Mammalia | Primates | 215 | 31518 |
| mmurinus\_gene\_ensembl | 60 | Mammalia | Primates | 215 | 29104 |
| mmusculus\_gene\_ensembl | 20 | Mammalia | Rodentia | 145 | 24248 |
| mnemestrina\_gene\_ensembl | 180 | Mammalia | Primates | 215 | 33812 |
| mochrogaster\_gene\_ensembl | 25 | Mammalia | Rodentia | 145 | 20498 |
| mpahari\_gene\_ensembl | 22 | Mammalia | Rodentia | 145 | 26937.5 |
| mspretus\_gene\_ensembl | 20 | Mammalia | Rodentia | 145 | 28560 |
| neugenii\_gene\_ensembl | 28 | Mammalia | Diprotodontia | 200 | 15905 |
| ngalili\_gene\_ensembl | 34 | Mammalia | Rodentia | 145 | 22803 |
| nleucogenys\_gene\_ensembl | 210 | Mammalia | Primates | 215 | 27529 |
| oanatinus\_gene\_ensembl | 12 | Mammalia | Monotremata | 200 | 8178.5 |
| oaries\_gene\_ensembl | 150 | Mammalia | Artiodactyla | 200 | 13733 |
| ocuniculus\_gene\_ensembl | 31 | Mammalia | Lagomorpha | 200 | 15089 |
| odegus\_gene\_ensembl | 90 | Mammalia | Rodentia | 145 | 15683 |
| ogarnettii\_gene\_ensembl | 132.5 | Mammalia | Primates | 215 | 13748.5 |
| olatipes\_gene\_ensembl | 10 | Actinopterygii | Beloniformes | 135 | 6797.5 |
| oniloticus\_gene\_ensembl | 7 | Actinopterygii | Perciformes | 135 | 9516 |
| oprinceps\_gene\_ensembl | 30 | Mammalia | Lagomorpha | 200 | 15466.5 |
| pabelii\_gene\_ensembl | 259 | Mammalia | Primates | 215 | 17404 |
| paltaica\_gene\_ensembl | 97.5 | Mammalia | Carnivora | 200 | 22285 |
| panubis\_gene\_ensembl | 179 | Mammalia | Primates | 215 | 27761 |
| pbairdii\_gene\_ensembl | 27 | Mammalia | Rodentia | 145 | 20828 |
| pcapensis\_gene\_ensembl | 240 | Mammalia | Hyracoidea | 200 | 16702.5 |
| pcoquereli\_gene\_ensembl | 162 | Mammalia | Primates | 215 | 24509 |
| pformosa\_gene\_ensembl | 30 | Actinopterygii | Cyprinodontiformes | 135 | 10077 |
| pmarinus\_gene\_ensembl | 5 | Hyperoartia | Petromysontiformes | 65 | 7875 |
| ppaniscus\_gene\_ensembl | 240 | Mammalia | Primates | 215 | 27893 |
| ppardus\_gene\_ensembl | 95 | Mammalia | Carnivora | 200 | 22800 |
| psinensis\_gene\_ensembl | 60 | Reptilia | Testudines | 125 | 19391 |
| ptroglodytes\_gene\_ensembl | 236 | Mammalia | Primates | 215 | 30083 |
| pvampyrus\_gene\_ensembl | 180 | Mammalia | Chiroptera | 200 | 13819 |
| rbieti\_gene\_ensembl | 199 | Mammalia | Primates | 215 | 29680 |
| rnorvegicus\_gene\_ensembl | 21 | Mammalia | Rodentia | 145 | 17842 |
| rroxellana\_gene\_ensembl | 199 | Mammalia | Primates | 215 | 29298 |
| saraneus\_gene\_ensembl | 20 | Mammalia | Eulipotyphla | 200 | 15500 |
| sboliviensis\_gene\_ensembl | 151.5 | Mammalia | Primates | 215 | 31604 |
| scerevisiae\_gene\_ensembl | 0.083 | Saccharomycetes | Saccharomycetales | 3 | 1086 |
| sharrisii\_gene\_ensembl | 21 | Mammalia | Dasyuromorphia | 200 | 17916 |
| sscrofa\_gene\_ensembl | 114 | Mammalia | Artiodactyla | 200 | 32892.5 |
| tbelangeri\_gene\_ensembl | 46 | Mammalia | Scandentia | 145 | 19349 |
| tguttata\_gene\_ensembl | 13.5 | Aves | Passeriformes | 175 | 7654 |
| tnigroviridis\_gene\_ensembl | 5 | Actinopterygii | Tetraodontiformes | 135 | 3660 |
| trubripes\_gene\_ensembl | 5 | Actinopterygii | Tetraodontiformes | 135 | 6525 |
| ttruncatus\_gene\_ensembl | 345 | Mammalia | Catartiodactyla | 200 | 16607 |
| vpacos\_gene\_ensembl | 345 | Mammalia | Artiodactyla | 200 | 21854.5 |
| xmaculatus\_gene\_ensembl | 30 | Actinopterygii | Cyprinodontiformes | 135 | 8178 |
| xtropicalis\_gene\_ensembl | 60 | Amphibia | Anura | 145 | 13237 |