

Multiple Sequence Alignment of IDH1 with WebPRANK

>Arabidopsis_thaliana

```
MSRRSLTLLKNLARNANGSGIQTRSVTYMPRPDGA  
PRAVTLIPGDGIGPLVTNAVEQVM  
EAMHAPIFFEKYDV-HGEMS-----RV-PPEV  
MESIRKKNKVLCKGGLKTPVG-GGV-----  
-----SSLNVQLRKELD-LFASLVNCFNLPGL  
PTRHENVDIVVIRENTEGEYAGLEHEV  
VPGV-----VESLK-VITKF-----CSER  
IAKYA---FEYAYLNNR  
KKVTAVHKANIMKLADGLFLESCREV-AKKYPS  
-----ITYNEIIVDNCCMQLVAKPEQ  
FDVMVTPNLYGNLVANTAAGIAGGTGVM-----  
PGGNVGADHAVFEQGASAGNVGKDKI  
VLENKANPVALLSSAMMLRHL-----QFPS  
FADRLETAVKKVIAEGKCRTKDLG---  
-GTSTTQ-----EVVDAVIAKL-----D-
```

>Cyberlindnera_jadinii

```
-----MLRTQVKSQSKRSLATVSEALLPKK-YG  
GRYTVTLLPGDGIGKEITDSVVEIF  
KAERIPVDWETVNVNTSEKS-----KEGVKEA  
VESLKRNVGLKGIWKTDSVQSGH----  
-----GSLNVAFRKELD-IYASLTLIKNI  
PGVKTRMDGIDLVLIRENTEGEYSGLEHES  
VPGV-----VESLK-IITQV-----KSER  
IAKFA---FDFAKNNR  
QTVTAVHKANIMKLADGLFRKTVKDVGAEQYPG  
-----IEVKDIIVDNASMQAVSNPQ  
QFDVLVTPNLYGAILSNIGTALVGGPGLV-----  
PGANYGREYAVFEPGSR--HVGLE-I  
AGKGVANPTGMILSSVLMRHL-----GLDSSA  
DRISNAVYKVIADGKKTTRDIG---  
-GPASTK-----EFTQAVIDEL-----ASA
```

>Homo_sapiens

```
-----MSKKISGG-SVVEMQGDEMTRIIEWELIKE  
KL  
IFPYVELDLHSYDL-GIENRDATNDQV-TKDAAEA  
IKKHNVGVKCATITPDE-KRVEEFK  
LKQMWKSPNGTIRNILGGTVFREAIICKNIPRLV  
SGW--VKPIIIGRHAYGDQYRATDFV  
VPGPGKVEMTYTPSDGTQKVTVLVHNFEEGGVAM  
GMYNQDKSIEDFAHSSFQMA-LSKG  
WPLYLSTKNITLKKYDGRFKDIFQEIYDKQYKSQ  
FEAQKIWYEHRLIDDMVAQAMKSEGG  
F-IWACKNYDGDVQSDSVAQGYGSLGMMTSVLVCP  
DGTVEAAAHGTVTR--HYRMYQK  
GQETSTNPIASIFAWTRGLAHRAKLDNNKELAFFA  
NAL EEVSIETIEAG-FMTKDLAACI  
KGLPNVQRSDYLNTFEFMDKLGLENLKIKL-AQAKL
```

>Cricetulus_griseus

```
-----MSKKIHGG-SVVEMQGDEMTRIIEWELIKE  
KL  
ILPYV-----TKDAAEAIKKYNVGVKCATITPDE  
-KRVEEFK  
LKQMWKSPNGTIRNILGGTVFREAIICKNIPRLVT  
GW--VKPIIIGRHAYGDQYRATDFV  
VPGPGKVEITYTPKDGTQKVTVVHNFEEGGVAMGM  
YNEDKSIEDFAHSSFQMA-LSKG  
WPLYLSTKNITLKKYDGRFKDIFQEIYDKQYKSQ  
FEAQKIWYEHRLIDDMVAQAMKSEGG  
F-IWACKNYDGDVQSDSVAQGYGSLGMMTSVLICP  
DGTVEAAAHGTVTR--HYRMYQK  
GQETSTNPIASIFAWSRGLAHRAKLDNNTLSFFAK  
ALEDVCIETIEAG-FMTKDLAACI  
KGLPNVQRSDYLNTFEFMDKLGLENLKAAL-AQAKL
```

>Zebrafish

```
-----MDSSRNRMRFGGFKMSQKVKAG-SVVEMQ  
GDEMTRVIWELIKEKL  
IFPYLELDLHSYDL-GMENRDATDDKV-TVEAAEA  
VRRYNVGIKCATITPDE-KRVEEFK  
LKQMWRSNGTIRNILGGTVFREAIICKNIPRLVPG  
W--IKPIIIGRHAHGDQYKATDFV  
VPGPGTVEMTYKPKNGGETLKFVVHDFEGTGGVAL  
GMYNTDKSIRDFAHSSFQMG-LNKG  
WPMYLSKNTITLKKYDGRFKDIFQEIYDKEYKAK  
YEAMGIWYEHRLIDDMVAQAMKSEGG  
F-IWACKNYDGDVQSDSVAQGYGSLGMMTSVLVCP  
DGTVEAAAHGTVTR--HYRMHQQ  
GKETSTNPIASIFAWTRGLHRAELDKNAELRVFAE  
ALEVVCVETIEAG-FMTKDLAICI  
KGMSGVTRSDYLNTFEFLDKLAENLKIKLSSQPKL
```

