Align

How to use this tool

Align two or more protein sequences with the $\underline{\text{Clustal Omega}}$ program (see also this $\underline{\text{FAQ}}$) to view their characteristics alongside each other.

- Enter either protein sequences in FASTA format or UniProt identifiers into the form field, for example: TPA_HUMAN TPA_PIG
- 2. Click the Run Align button.

×

Alignment

How to print an alignment in color		
08IZJ1 UNC5B HUMAN 1 K7DDY1 K7DDYT PANTR 1 K7B3D8 K7B3D8 PANTR 1 K7BV15 K7BV15 PANTR 1 H2NAM6 H2NAM6 PONAB 1 G7N281 G7N281 MACMU 1 F6UDU4 F6UDU4 MACMU 1 F6UDV7 F6UDV7 MACMU 1 F7A1Z5 F7A1Z5 CALJA 1 U3F339 U3F339 CALJA 1	MGARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWTRSGARDALLLALLLCWDPRLSQAGTDSGSEALPDSFPSAPAEPLPYFLQEPQDAYIV MWTRSGARDALLLALLLCWDPRLSQAGTDSGSEALPDSFPSAPAEPLPYFLQEPQDAYIV MWTRSGARDALLLALLCWDPRLSQAGTDSGSEALPDSFPSAPAEPLPYFLQEPQDAYIV GTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV GTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWTRSGARGALLALLCWDARLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV MWARSGARGVLLLALLLCWDARLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV	60 60 60 60 60 60 60 34 60
08IZJ1 UNC5B HUMAN 61 K7DDY1 K7DDYT PANTR 61 K7B3D8 K7B3D8 PANTR 61 K7BV15 K7BV15 PANTR 61 H2NAM6 PONAB 1 G7N281 G7N281 MACMU 61 F6UDU4 F6UDU4 MACMU 61 F6UDV7 F6UDV7 MACMU 61 F7A1Z5 F7A1Z5 CALJA 35 U3F339 U3F339 CALJA 61	KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE KNKPVELRCRAFPATQIYFKCNGDWVSQNDHVTHERISEPVGLKPYSKREFLRETKQHIE KNKPVELRCRAFPATQIYFKCNGDWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVE	118 118 118 118 118 118 118 118 118
08IZJ1 UNC5B HUMAN 119 K7DDY1 K7DDYT PANTR 119 K7B3D8 K7B3D8 PANTR 119 K7BV15 K7BV15 PANTR 119 H2NAM6 H2NAM6 PONAB 1 G7N281 G7N281 MACMU 119 F6UDU4 F6UDU4 MACMU 119 F6UDV7 F6UDV7 MACMU 119 F7A1Z5 F7A1Z5 CALJA 95 U3F339 U3F339 CALJA 119	ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTRGKFPEQRPDLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE ELFGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPE	178 178 178 178 0 178 178 178 154 178
08IZJ1 UNC5B_HUMAN 179 K7DDY1 K7DDYT PANTR 179 K7B3D8 K7B3D8_PANTR 179 K7BV15 K7BV15_PANTR 179 H2NAM6 H2NAM6_PONAB 1 G7N281 G7N281_MACMU 179 F6UDU4 F6UDU4_MACMU 179 F6UDV7 F6UDV7_MACMU 179 F7A1Z5 F7A1Z5_CALJA 155 U3F339 U3F339_CALJA 179	GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GVPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GMPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GMPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT GMPVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTT	238 238 238 238 0 238 238 238 214 238
08IZJ1 UNC5B HUMAN 239 K7DDY1 K7DDYT PANTR 239 K7B3D8 K7B3D8 PANTR 239 K7BV15 K7BV15 PANTR 239 H2NAM6 PONAB 1 G7N281 G7N281 MACMU 239 F6UDU4 F6UDU4 MACMU 239 F6UDV7 F6UDV7 MACMU 239 F7A1Z5 F7A1Z5 CALJA 215 U3F339 U3F339 CALJA 239	ATVIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTI ATVIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTI ATVIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTI ATVIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTI	298 298 298 298 122 298 298 298 274 298
08IZJ1 UNC5B HUMAN 299 K7DDY1 K7DDYT PANTR 299 K7B3D8 K7B3D8 PANTR 299 K7BV15 K7BV15 PANTR 299 H2NAM6 H2NAM6 PONAB 13 G7N281 G7N281 MACMU 299 F6UDU4 F6UDU4 MACMU 299 F6UDV7 F6UDV7 MACMU 299 F7A1Z5 F7A1Z5 CALJA 275 U3F339 U3F339 CALJA 299	CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK LTVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK CPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKK	358 358 358 358 72 358 355 358 334 358

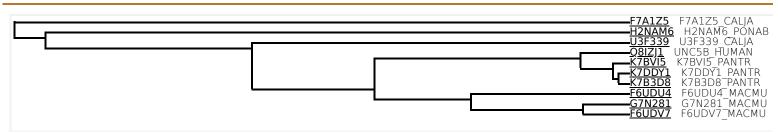
******************* TLSDPNSHLLEASGDAALYAGLVVAIFVVVAILMAVGVVVYRRNCRDFDTDITDSSAALT TLSDPNSHLLEASGDAALYAGLVVAVFVVVAILMAVGVVVYRRNCRDFDTDITDSSAALT TLSDPNSHLLEASGDAALYAGLVVAVFVVVAILMAVGVVVYRRNCRDFDTDITDSSAALT TLSDPNSHLLEASGDAALYAGLVVAVFVVVAILMAVGVVVYRHNCRDFDTDITDSSAALT <u>Q8IZJ1</u> UNC5B HUMAN 081ZJI UNC5B HUMAN K7DDY1 K7DDYI PANTR K7B3D8 K7B3D8 PANTR K7BVI5 K7BVI5 PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281 MACMU F6UDU4 F6UDU4 MACMU F6UDV7 F6UDV7 MACMU F7A1Z5 F7A1Z5 CALJA 13F339 13F339 CALJA <u>U3F339</u> U3F339_CALJA 08IZJ1 K7DDY1 K7B3D8 UNC5B_HUMAN K7DDY1_PANTR GGFHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLPGGFHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLP K7B3D8_PANTR K7BVI5_PANTR GGFHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLP H2NAM6_PONAB G7N281_MACMU 67N281 G7N281 MACMU F6UDU4 F6UDU4 MACMU F6UDV7 F6UDV7 MACMU F7A1Z5 F7A1Z5 CALJA U3F339 U3F339 CALJA 081ZJ1 UNC5B HUMAN K7DDY1 K7DDYT_PANTR K7B3D8 K7B3D8 PANTR K7BVI5 K7BVI5_PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281_MACMU F6UDU4 F6UDU4_MACMU F6UDV7 F6UDV7_MACMU F7A1Z5 F7A1Z5_CALJA U3F339 U3F339_CALJA SLKVKVYSSSTTGSGPGLADGADLLGVLPPGTYPSDFARDTHFLHLRSASLGSQQLLGLP SLKVKVYSSSTTGSGPGLADGADLLGVLPPGTYPSDFARDTHFLHLRSASLGSQQLLGLP SLKVKVYSSSTTGSGPGLADGADLLGVLPPGTYPSDFARDTHFLHLRSASLGSQQLLGLP 08IZJ1 UNC5B HUMAN K7DDY1 K7DDYT PANTR K7B3D8 K7B3D8 PANTR K7BVI5 K7BVI5 PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281 MACMU RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQ RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPSGAIPQGKFYEMYLLINKAESTLPLSEGTQ F6UDU4 MACMU <u>F6UDV7</u> F6UDV7 MACMU <u>F7A1Z5</u> F7A1Z5_CALJA <u>U3F339</u> U3F339_CALJA RDPGSSVSGTFGCLGGRLSIPGTGVSLLVPSGAIPQGKFYEMYLLINKAESTLPLSEGTQ 08IZJ1 UNC5B HUMAN <u>K7DDY1</u> K7DDY1 PANTR <u>K7B3D8</u> K7B3D8 PANTR <u>K7BV15</u> K7BV15 PANTR <u>H2NAM6</u> H2NAM6 PONAB <u>G7N281</u> G7N281 MACMU <u>F6UDU4</u> F6UDU4 MACMU TVLSPSVTCGPTGLLLCRPVILTMPHCAEVSARDWIFQLKTQAHQGHWEEVVTLDEETLN TVLSPSVTCGPTGLLLCRPVILTMPHCAEVSARDWIFQLKTQAHQGHWEEVVTLDEETLN TVLSPSVTCGPTGLLLCHPVILTMPHCAEVSARDWIFQLKTQAHQGHWEEVVTLDEETLN 658 TVLSPSVTCGPTGLLLCHPVILTMPHCAEVSARDWIFQLKTQAHQGHWEEVVTLDEETLN TVLSPSVTCGPTGLLLCRPVILTLPHCAEVSARDWIFÖLKTÖAHÖGHWEEVVTLDEETLN TVLSPSVTCGPTGLLLCRPVILTVPHCAKVSVGDWIFQLKTQAHQGHWEEVVTLDEETLN F6UDU4 F6UDU4 MACMU F6UDV7 F6UDV7 MACMU F7A1Z5 F7A1Z5 CALJA U3F339 U3F339 CALJA TVLSPSVTCGPTGLLLCRPVILTVPHCAKVSVGDWIFÖLKTÖAHÖGHWEEVVTLDEETLN TVLSPSVTCGPTGLLLCRPVILTVPHCAKVSVGDWIFÖLKTÖAHÖGHWEEVVTLDEETLN TVLSPSVTCGPAGLLLCRPVILTVPHCAEVSAGDWIFQLKTQAHQGHWEEVVTLDEETLN 08IZJ1 UNC5B HUMAN K7DDY1 K7DDYT PANTR K7B3D8 K7B3D8 PANTR K7BV15 K7BV15 PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281 MACMU TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE 659 718 TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLETSLRVYCLE
TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE
TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE
TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE
TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLE FOUDUT FOUDUT MACMU FOUDUT FOUDUT FOUDUT FOUDUT FOUDUT MACMU FOUDUT FOUDUT MACMU FOUDUT FOUDUT MACMU FOUDUT F TPCYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPSLCTSLEYSLRVYCLE <u>U3F339</u> U3F339_CALJA 08IZJ1 UNC5B HUMAN K7DDY1 K7DDY1 PANTR K7B3D8 K7B3D8 PANTR K7BV15 K7BV15 PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281 MACMU F6UDU4 F6UDU4 MACMU DTPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWR-KLLAKYQEIP DTPVALKEVLDLERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLDTPVALKEV 719 719 778 778 F6UDV7 F6UDV7 MACMU F7A1Z5 F7A1Z5 CALJA U3F339 U3F339 CALJA DTPVALKEVLDLERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLVFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP DTPVALKEVLELERTLGGYLVEEPKPLVFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIP 081ZJ1 UNC5B HUMAN K7DDY1 K7DDYT PANTR K7B3D8 K7B3D8 PANTR K7BV15 K7BV15 PANTR H2NAM6 H2NAM6 PONAB G7N281 G7N281 MACMU F6UDV4 F6UDV4 MACMU F6UDV7 F6UDV7 MACMU F7A1Z5 F7A1Z5 CALJA U3F339 U3F339 CALJA FYHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA FCHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA FCHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA FCHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA FYHIWSGSQKALHCTFTLERHSLASTELICKICVRQVEGEGQIFQLHT-----TLAETPA FYHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA FYHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT-----TLAETPA 833 833 833 779 779 779 FYHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHTTLLHTTLAETPA FYHIWSGSÖKALHCTFTLERHSLASTELTCKICVRÖVEGEGÖIFÖLHT----TL-TPA FYHIWSGSÖKALHCTFTLERHSLASTELTCKICVRÖVEGEGÖIFÖLHT----TLAETPA FYHIWSGSQKALHCTFTLERHSLASTELTCKICVRQVEGEGQIFQLHT----TLAETPA

<u>K7BBØ8</u> K7BBØ8_PANTR	834	GSLDTLCSAPGSTVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	893
K7BVI5 K7BVI5 PANTR	834	GSLDTLCSAPGSTVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	893
H2NAM6 H2NAM6 P0NAB	547	GSLDTLCSAPGSTITTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	606
<u>G7N281</u> G7N281 MACMU	834	GSLDTLCSAPGSAVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	893
F6UDU4 F6UDU4 MACMU	828	GSLDTLCSAPGSAVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	887
F6UDV7 F6UDV7 MACMU	832	GSLDTLCSAPGSAVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	891
F7A1Z5 F7A1Z5 CALJA	810	GSLDTLCSAPGGAITTOLGPYAFKIPLSIROKICNSLDAPNSRGNDWRMLAOKLSMDRYL	869
<u>U3F339</u> U3F339 CALJA	834	GSLDTLCSAPGGAITTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYL	893

OOT711 UNCED HUMAN	004	NIVEATIVACETCUTI DI IJEAT OODDCEI NICI ACAT EEMCVCEMI VAVATDODO	0.45
08IZJ1 UNC5B HUMAN	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
K7DDY1 K7DDYI PANTR	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
K7B3D8 K7B3D8 PANTR	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
K7BVI5 K7BVI5 PANTR	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
H2NAM6 H2NAM6 P0NAB	607	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	658
<u>G7N281</u> G7N281_MACMU	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
<u>F6UDU4</u> F6UDU4_MACMU	888	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	939
<u>F6UDV7</u> F6UDV7 <u></u> MACMU	892	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	943
<u>F7A1Z5</u> F7A1Z5 CALJA	870	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	921
<u>U3F339</u> U3F339_CALJA	894	NYFATKASPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC	945
_		***********	

You may add additional sequences to this alignment (in FASTA format)

Tree



Highlight Taxonomy

Result information

Query sequences

>sp|Q8IZJ1|UNC5B HUMAN Netrin receptor UNC5B OS=Homo sapiens OX=9606 GN=UNC5B PE=1 SV=2 MGARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV KNKPVELRCRAFPATQIYFKCNGEWVSQNDHVTQEGLDEATGLRVREVQIEVSRQQVEEL FGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPEGV PVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTTAT VIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTICP VDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKKTL SDPNSHLLEASGDAALYAGLVVAIFVVVAILMAVGVVVYRRNCRDFDTDITDSSAALTGG FHPVNFKTARPSNPQLLHPSVPPDLTASAGIYRGPVYALQDSTDKIPMTNSPLLDPLPSL KVKVYSSSTTGSGPGLADGADLLGVLPPGTYPSDFARDTHFLHLRSASLGSQQLLGLPRD PGSSVSGTFGCLGGRLSIPGTGVSLLVPNGAIPQGKFYEMYLLINKAESTLPLSEGTQTV LSPSVTCGPTGLLLCRPVILTMPHCAEVSARDWIFQLKTQAHQGHWEEVVTLDEETLNTP CYCQLEPRACHILLDQLGTYVFTGESYSRSAVKRLQLAVFAPALCTSLEYSLRVYCLEDT PVALKEVLELERTLGGYLVEEPKPLMFKDSYHNLRLSLHDLPHAHWRSKLLAKYQEIPFY HIWSGS0KALHCTFTLERHSLASTELTCKICVR0VEGEG0IF0LHTTLAETPAGSLDTLC SAPGSTVTTQLGPYAFKIPLSIRQKICNSLDAPNSRGNDWRMLAQKLSMDRYLNYFATKA SPTGVILDLWEALQQDDGDLNSLASALEEMGKSEMLVAVATDGDC >tr|K7DDY1|K7DDY1 PANTR Unc-5 homolog B OS=Pan troglodytes OX=9598 GN=UNC5B PE=2 SV=1 MWARSGARGALLLALLLCWDPRLSQAGTDSGSEVLPDSFPSAPAEPLPYFLQEPQDAYIV KNKPVELRCRAFPAT0IYFKCNGEWVS0NDHVT0EGLDEATGLRVREV0IEVSR00VEEL FGLEDYWCQCVAWSSAGTTKSRRAYVRIAYLRKNFDQEPLGKEVPLDHEVLLQCRPPEGV PVAEVEWLKNEDVIDPTQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTTAT VIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTICP VDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCMQNKKTL SDPNSHLLEASGDAALYAGLVVAVFVVVAILMAVGVVVYRRNCRDFDTDITDSSAALTGG

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KVKVYSSSTTGSGPGLADGADLLGVLPPGTYPSDFARDTHFLHLRSASLGSQQLLGLPRD
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Date of job Mar 16, 2018 execution Job A2018031683C3DD8CE55183C76102DC5D3A26728B0D5B59R (jobs are stored for 7 days) identifier Running 23 seconds time Identical 601 positions Identity 63.13% Similar 29 positions Program clustalo Default Default parameters: The default transition matrix is Gonnet, gap opening penalty is 6 bits, gap extension is 1 bit. Clustal-Omega uses parameters the HHalign algorithm and its default settings as its core alignment engine. The algorithm is described in Söding, J. (2005) 'Protein homology detection by HMM-HMM comparison'. Bioinformatics 21, 951-960.

	Entry	Entry name	Protein names	Organism	Gene name
<u>Q8IZJ1</u>	UNC5B_HUMAN	Netrin receptor UNC5B	<u>Homo sapiens (Human)</u>	UNC5B P53RDL1, UNC5H2, UNQ1883/PRO4326	
K7DDY1	K7DDY1_PANTR	Unc-5 homolog B	<u>Pan troglodytes (Chimpanzee)</u>	UNC5B	
K7B3D8	K7B3D8_PANTR	Unc-5 homolog B	<u>Pan troglodytes (Chimpanzee)</u>	UNC5B	
K7BVI5	K7BVI5_PANTR	Unc-5 homolog B	<u>Pan troglodytes (Chimpanzee)</u>	UNC5B	
H2NAM6	H2NAM6_PONAB	Uncharacterized protein	<u>Pongo abelii (Sumatran orangutan) (Pongo pygmaeus abelii)</u>		
<u>G7N281</u>	G7N281_MACMU	Uncharacterized protein	<u>Macaca mulatta (Rhesus macaque)</u>	EGK_19753	
F6UDU4	F6UDU4_MACMU	Unc-5 netrin receptor B	<u>Macaca mulatta (Rhesus macaque)</u>	UNC5B	
F6UDV7	F6UDV7_MACMU	Unc-5 netrin receptor B	<u>Macaca mulatta (Rhesus macaque)</u>	UNC5B	
<u>F7A1Z5</u>	F7A1Z5_CALJA	Unc-5 netrin receptor B	<u>Callithrix jacchus (White-tufted-ear marmoset)</u>	UNC5B	
<u>U3F339</u>	U3F339_CALJA	Netrin receptor UNC5B isoform 1	<u>Callithrix jacchus (White-tufted-ear marmoset)</u>	UNC5B	