

Results colour-coded for secondary structure

The current colourscheme of the alignment is for **secondary structure type**.

The 3-state (H, E C) secondary structure for each sequence is represented by a colour. If a sequence in the alignment has no colours assigned, this means that either there is no DSSP information available (if this was requested), or that no prediction was possible for that sequence (if this was requested).
The colour assignments are:

HELIX (H) **STRAND (E)** You have selected to perform secondary structure prediction using **DSSP** ([Kabsch and Sander, 1983](#)) and **PSIPRED** ([Jones, 1999](#)).

		..... 10	..... 20	..... 30	..... 40	..... 50
(PRED)	MDP276057	MGTMKIEPIT	VCHLVALPYP	GRGHINPMMNLCKQLSSKNP	XLLITFVXTE	
(PRED)	U85A1	-----	-----	-----	-----	-----
(PRED)	U87A1	-----	-----	-----	-----	-----
(PRED)	CZOG1	-----	-----	-----	-----	-----
(PRED)	CZOG2	-----	-----	-----	-----	-----
(PRED)	ZOG_PHALU	-----	-----	-----	-----	-----
		..... 60	..... 70	..... 80	..... 90	..... 100
(PRED)	MDP276057	XWHGFIESDR	KLDNIRLVTI	PNVIPSEHGR	AKNFAAFLEA	VWTKMEAPVE
(PRED)	U85A1	-----	-----	-----	-----	-----
(PRED)	U87A1	-----	-----	-----	-----	-----
(PRED)	CZOG1	-----	-----	-----	-----	-----
(PRED)	CZOG2	-----	-----	-----	-----	-----
(PRED)	ZOG_PHALU	-----	-----	-----	-----	-----
		..... 110	..... 120	..... 130	..... 140	..... 150
(PRED)	MDP276057	QLLDGLEPPV	TAIVADTFLV	WALRVGNRRN	IPVAPLWTPS	PTILQTSYKR
(PRED)	U85A1	-----	-----	-----	-----	-----
(PRED)	U87A1	-----	-----	-----	-----	-----
(PRED)	CZOG1	-----	-----	-----	-----	-----M
(PRED)	CZOG2	-----	-----	-----	-----	-----M
(PRED)	ZOG_PHALU	-----	-----	-----	-----	-----M
		..... 160	..... 170	..... 180	..... 190	..... 200
(PRED)	MDP276057	EMGTMKXEPI	TVCHLVALPY	PGRGHINPMM	NLCKQLSSKN	PQLFITFVVT
(PRED)	U85A1	-MGSQIIHNS	QKPHVVCVPY	PAQGHINPMM	RVAKLLHARG	--FYVTFVNT
(PRED)	U87A1	-----	-----MPW	PGRGHINPML	NLCKSLVRRD	PNLTVTFVVT
(PRED)	CZOG1	AVDTME----	-SVAVVAVPF	PAQGHILNQLL	HLSLLLASRG	--LSVHYAAP
(PRED)	CZOG2	AVDTME----	-SVAVVAVPF	PAQGHILNQLL	HLSLLLASRG	--LSVHYAAP
(PRED)	ZOG_PHALU	ALNDKSIPHE	TKVVVLLIPF	PAQGHILNQFL	HLSRLIVAQN	--IPVHYVGT
		..... 210	..... 220	..... 230	..... 240	..... 250
(PRED)	MDP276057	EEWRGFIESN	PKP-----E	NIRLATIPN-	----VIPSEH	---GRAKDFA
(PRED)	U85A1	VYNHNRFLRS	RGSNALDGLP	SFRFESIAD-	----GLPETD	M--DATQDIT
(PRED)	U87A1	EEWLGFIGSD	PKP-----N	RIHFATLPN-	----IIPSEL	---VRANDFI
(PRED)	CZOG1	PPHVRQARAR	VHGWDPRALG	SIRFHDLDVP	PYDSPAPDLA	APSPFPNHLM
(PRED)	CZOG2	PPHVRQARAR	VHGWDPRALG	SIHFHDLDVP	AYDSPAPDLA	APSPFPNHLM
(PRED)	ZOG_PHALU	VTHIRQATLR	YNNPTSIN---	-IHFHAFQVP	PFVSPPPNPE	---DDFPSHL
		..... 260	..... 270	..... 280	..... 290	..... 300
(PRED)	MDP276057	AFVEAVWTKL	EAPVEQLXDG	LEQP-----V	TAIVADTFLV	WAXR-IGNRR
(PRED)	U85A1	ALCESTMKNC	LAPFRELLQR	INAGDNVPPV	SCIVSDGCMS	FTLD-VAEEL
(PRED)	U87A1	AFIDAVLTRL	EEPFEQLLDR	LNSP-----P	TAIIADTYII	WAVR-VGTKR
(PRED)	CZOG1	PMFEAFAAAA	RAPLAALLQR	LSTS---YRR	VAVVFDRLNP	FAAT-EAARL
(PRED)	CZOG2	PMFEAFAAAA	RAPLAALLQR	LSTS---YRR	VAVVFDRLNP	FAAT-EAARL
(PRED)	ZOG_PHALU	IPSFEAS AHL	REPVGKLLQS	LSSQ---AKR	VVVINDSLMA	SVAQDAANIS
		..... 310	..... 320	..... 330	..... 340	..... 350
(PRED)	MDP276057	NIPVASLWTQ	SPTMFSVLHH	FELFKENGHF	ALDVSERG--	----DEIVEY
(PRED)	U85A1	GVPEVLFWTT	SGCAFLAYLH	FYLFIEKGIC	PLKDESYLTK	EYLEDTVIDF
(PRED)	U87A1	NIPVASFWTT	SATILSLFIN	SDLLASHGHF	PIEPSESKL-	----DEIVDY
(PRED)	CZOG1	ANADAFGLQC	VAISYNVGWL	DPG-H-----	-----	-----
(PRED)	CZOG2	ANADAFGLQC	VAISYTVGWL	DPG-H-----	-----	-----
(PRED)	ZOG_PHALU	NVENYTFHSF	SAFN TSGDFW	EEMGK-----	-----	-----
		..... 360	..... 370	..... 380	..... 390	..... 400
(PRED)	MDP276057	IPGVSTTCIA	DLPAIFFTDD	--PKVLHKAI	EGISEAEKAK	YLLETSVYEL
(PRED)	U85A1	IPTMKNVKLK	DIPSFI RTTN	PD DVMISFAL	RETERAKRAS	AIILNTFDDL
(PRED)	U87A1	IPGLSPTRL S	DLQILHGYS-	--HQVFNIFK	KSFGELYKAK	YLLEFPSAYEL
(PRED)	CZOG1	-RL LSDYGLQ	FLPPDACMSR	-EFVDLVFRM	EEEEQGAPVA	GLVMNTCRAL
(PRED)	CZOG2	-RL LSDYGLQ	FLPPDDCMSR	-EFVDLVFRM	EEEEQGAPVA	GLVMNTCRAL
(PRED)	ZOG_PHALU	-PPVGDFHFP	EFPSLEGCI	-AAQFKGFRT	AQYEF RKFNN	GDIYNTSRVI

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..... 410..... 420..... 430..... 440..... 450
(PRED) MDP276057 DPQVFEALKA KFX---FPIY PIGPSIPHFE LSK----- --TLPTNQND
(PRED) U85A1 EHDVVHAMQS IL---PVY SVGPLHLLAN REIEEGSEIG MMSSNLWKEE
(PRED) U87A1 EPKAIDFFTS KFD---FPVY STGPLIPLEE L----- --SVGNENRE
(PRED) CZOG1 EGEFLDVVAA QPPFQGQRFF AVGPLNPLLL DADA----- -PTTPPGQAR
(PRED) CZOG2 EGEFLDAVAA QPPFQGQRFF AVGPLNPLLL DADA----- -R----TAPR
(PRED) ZOG_PHALU EGPYVELLEL FN--GGKKVW ALGPFNPLAV EKKD----- -S----IGFR

..... 460..... 470..... 480..... 490..... 500
(PRED) MDP276057 IDYLHWLDSQ PKKSVLYISM GSFLSVSKSQ MDEIVAGVKS SGVRVFWVAR
(PRED) U85A1 MECLDWLDTK TQNSVIYINF GSITVLSVKQ LVEFAWGLAG SGKEFLWVIR
(PRED) U87A1 LDYFKWLDEQ PESSVLYISQ GSFLSVSEAQ MEEIVVGVRE AGVKFFWVAR
(PRED) CZOG1 HECLEWLDRQ PPESVLYVSF GTTSC LHADQ VAELAAALKG SKQRFVWVLR
(PRED) CZOG2 HECLEWLDRQ PPESVLYVSF GTTSC LHADQ VAELAAALKG SKQRFVWVLR
(PRED) ZOG_PHALU HPCMEWLDKQ EPSSVIYISF GTTTALRDEQ IQQIATGLEQ SKQKFIWVLR

..... 510..... 520..... 530..... 540..... 550
(PRED) MDP276057 VD----- --A CELRDFVGD L-GLVVPWCDQ LRVLCHDSIG
(PRED) U85A1 PDLV----- --AGEEAMVP PDFLMETKDR -SMLASWCPQ EKVL SHPAIG
(PRED) U87A1 GG----- --E LKLKEALEGS LGVVVSWCDQ LRVLCHAAIG
(PRED) CZOG1 DADRADIYAE SGESRHAMFL SEFTRETEGT GLVITGWAPQ LEILAHGATA
(PRED) CZOG2 DADRADIYAE SGDSRHAKFL SEFTRETEGT GLVVTGWAPQ LEILAHGATA
(PRED) ZOG_PHALU EADKGDIFAG -SEAKRYELP KGFEERVEGM GLVVRDWAPQ LEILSHSSTG

..... 560..... 570..... 580..... 590..... 600
(PRED) MDP276057 GFWSHCGWNS TLEAVYAGLP ILTFPIFWDQ IPNGKQIVED WRIGYRVKKK
(PRED) U85A1 GFLTHCGWNS ILESLS CGVP MVCWPFADQ QMNCKFCCDE WDVGIEIGGD
(PRED) U87A1 GFWTHCGYNS TLEGICSGVP LLTFPVFWDQ FLNAKMIVEE WRVGMGIERK
(PRED) CZOG1 AFMSHCGWNS TIESLSHGKP VLAWPMHSDQ PWDSELLCKY FKAGLLVRPW
(PRED) CZOG2 AFMSHCGWNS IIESLSHGKP VLAWPMHSDQ PWDSELLCNY FKAGLLVRPW
(PRED) ZOG_PHALU GFMSHCGWNS CLESITMGVP IATWPMHSDQ PRNAVLVTEV LKVGLVVKDW

..... 610..... 620..... 630..... 640..... 650
(PRED) MDP276057 AGVELLVS SE EIGEIVKKFM DVSEEGGKDL RERAKQLQEI CRGAIANG-G
(PRED) U85A1 -----VKRE EVEAVVRELM --DGEKGKKM REKAVEWQRL AEKATEHKL G
(PRED) U87A1 KQMELLIVSD EIKELVKRFM DGES EEGKEM RRRTCDLSEI CRGAVAKG-G
(PRED) CZOG1 EKHAIEIVPAQ AIQKVIEEAM --LSDSGMAV RQRAKELGEA VRASVADG-G
(PRED) CZOG2 EKHAIEIIPAQ AIQKVIEEAM --LSDSGMAV RQRAKELGEA VRASVADG-G
(PRED) ZOG_PHALU AQRNSLVSAS VVENGVRRIM --ETKEGDEM RQRAVRLKNA IHRSMD EG-G

..... 660..... 670.
(PRED) MDP276057 S SDRNLDAFI KDISQGYNCH -
(PRED) U85A1 SSVMNFETVV SKFLLGQKSQ D
(PRED) U87A1 SSDANIDAFI KDITKIV--- -
(PRED) CZOG1 NSRKDLDDFI GYITR----- -
(PRED) CZOG2 NSRKDLDDFI GYITR----- -
(PRED) ZOG_PHALU VSHMEMGSFI AHISK----- -

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