ConSurf Color-Coded MSA

001 016864	G D A K G T V F F E Q E - A E N S P V K V T	GEVAGLAKG
002 A0A0K0QRG7	- TRAVVTLS - G DSSVTGTVNFTQE - NYGGPVTVS	GLVQGLDPSS
003 B2CP37	KGVAVLS-SSEGVAGTILFTQE-GDG-PTTVT	GNISGLKPG
004 H5SJS3	RAVATLR - d A E G K V L G V A L F V Q E - S Q G V R I S	
005 B2VRY4	- VKAVAVLR - G DSNVKGTVTFEQA - DENSQTTIS	
006 A0A0S3FWV7	SK-SDTQTGGTAKFTQK-GDEVIMK	LDVTNLTPG
007 P81926	- IKAVCVLV - G S V K G T L N F K Q D - A I G - S C T V T	GEVSGLIPG
008 E9HT81	KGHVQGVVRFTEV-EEDCIID	GTVDGLKPG
009 077253	KAVAVLR-SD-TVNGTIFFQQD-NKSSPVMIN	GKISGLIPG
010 S7MJG0	QGNGKVKVSKVVLE-AK-SDSKVSGTIIFTEV-DDTVNML	GSIRELIEG
011 T2KS30		
012 A0A0P5R8X0 013 W2T0I3		GEVIGLIP G
013 WZTQ13 014 A0A0C3CGX0	QAVVILR-GDSSVSGTVTFEQP-TSGGRVKVS	CKITCEDD NO
015 E3VSS4	-TKAVCVLN-GE-KVKGTIFFTQD-ESSGPVSVT	CEVOCIAD C
016 Q6CPE2	NAVAVLK-GDSSVSGIVRFEQE-SEDQQTKIS	WETTCHEA NA
016 Q6CPE2 017 F1AG60		CTTCCLKE
018 M1ICI8	AIAVLT-GPTKGTVRFVEEGSRVKIS	I DISGLEE
019 A0D4J6	ALCILF-PD-snSGVNGVVSFSQE-HINAKTKIA	
020 E2BK27		G T V D G L T D G
020 L2BK27 021 A0A0E3H865	SAVAVMK-dAKGNTVGLATFTEE-CDG-LVRIN	VNVKCLTPG
022 A0A0L0DEP8	VTVVIK-GTSnaPgVSGLVTLEQLHGPGtPVTIS	
023 A0A0F7M4V1	KAQAKLK-Gt-kDNTIDGLVTFMPS-EGRSEMKVS	
024 Q27538	RAVAVLR - G TAVFGTVWLTOK - AEGEETEFE	
025 B4K1U0	QVKGNVTFTQN-DCGQSVHVR	
026 E0VCZ4	R-SDNGRINGNITFSQNDGGTVTIW	
027 G2SJ46	AVAVLH-Pt-eGNQVEGVVHFTRT-AEGIRIE	
028 Q08FK9	RAVCLLK-GTNIQGVINFEQL-ENG-INIIF	GVILGIRF
029 J9S294	PGDVGGVIVFHHM-RDSTTIHIE	
030 C6T360	- KKAVAILK - G N S S V H G L V T L T Q Q - Q D N G P T T V T	
031 A0A0L0RX52	- AKAVAVLR - G DAGVAGTITFTQA - SPDAPVTVE	ATILGLKAG
032 A0A0L7R8J2	D N K V M G V I R F A Q T - P D G C L I D	
033 P11418	KAVCVLK-GTGEVTGTVLFEQAADGPVTLK	
034 Q6MAB6	KAVVH-GV-NDNKVRGTVTFTKV-IGGVKII	
035 W0FZ77	KAICLVN-PE-KnQVAKGIVHFEQE-NQYAKTHIF	
036 A7L817		
037 A0A022RUY7		GNVSGLKPG
038 B6HFF6		D R L T G V P F G
039 A0A0R3RLM9	NKSLPTIVS	GEISGLTPG
040 A0A0F7JHQ2	- LKAVCVLN - G D V T G T V Y F E Q R - D A K S P V V L T	
041 A0A0R3Q287		G
042 065175	- KKAVAVLK - G TSQVDGVVTLVQE DDGPTTVN	
043 L9KA73	ALKAVCVLK-GDGPVQGTIHFEQK-AENGPVLVT	
044 A0A078B8U9	TKGTVRFTQKHLVGVEIS	
045 A0A0D2VZA5		
046 P81036	- VKAVCVLK - G T t G E V T G T V Y F E Q E - S D S A P V K L T	
047 U6P345		
048 K9IWW1	V T G F V L F R Q P - V P G A Q L E A F	
049 H9BE65		
050 Q1HDV5	- VKAVAVLR - G D S K I T G T V T F E Q P - D E N S P T T I S	WNIKGHDPNa
051 A0A068VCS5	- VKAVAVLS - G NECVSGTIFLTQE - GDG - PTTVT	GTITGLKPG
052 F1LCL1	GGTLKIN	GTLHGLSPG
053 V9LDK0	AVAMLG-GRADVQGVVRFLQV-SER-TCVVE	GVIDGLSPG
054 A0A0N5DBX6	NAIAVLR-GE-EVNGVVHFKQD-NENSPTVIT	GEIKGLKPG
055 U5EZ17 056 G7KPK8	KAVAVI G L G R A Q G N V T L T Q S - A C N E P C H I E - V K G V A L I I - G D N N V R G S L H F L Q H - P N G N Y T H V T	CKTTCLED NQ
057 C5KTS7		
058 A0A0G2YHY5	SVYGQLNLYQK-YGSQEVLIR	
059 A0A0K6FUM8	NAVLK-DVNGTTIGVVNLYQA-SNLDSVKIT	ADLKGLGA
060 A0A068LRM5	KAVCVID-GDVTGKILFEQQ-SPSHLLHIS	
061 B0X9L3	- VKAVCVLS - G D VKGTIYFEQN - ADSDAVKVT	
062 U3QZS1		
063 P16026		
064 Q1A4Q2	KAICLIN-GDVKGVVEFVQE-KPDMPVRIM	
065 A0A0R3SLX3	KAVCVMR-G DEGVKGIVHFEQK-SDNDVVRIH	
066 A0A0E3Z7D4	EAICVIK-G DVDGVIIFKQQ-SYLHPLVIE	GHLMGLPKG
067 G0CLZ9		GQLSGLKPnS
068 A0A075W0S9	ATKAVCVLS - G E - IVKGTVWFTQE - GDKAPVQVQ	GSISGLGKG
069 L8GDC4	TAVCVLR-Gf-gDAAVEGTVRFSQT-ADDEPTTID	

5/12/2017	Consum Color-Coded MSA
070 V9IJ95	-TKAVCVLQ-GEVKGTIFFEQP-ESTNSVKVTGQVTGLKKG
071 G7UUY9	VRIAGTIGGLPA1G
072 T1GMG3	-TQAISVLT-SDYGVSGVIRFSQE-NCSAPLVMNISFSGMNPG
073 C0ILX5	
074 G3BAZ8	- VKAVAVLR - G DAKVTGVVHFEQA - SESEPTTISWEITGnQP NA
075 I7M6X2	
076 A0A0S2FH24	VHFTGEIGGLTPnS
077 B9REW9	- VKAVTVLG - S SEGVKGTIFFTQE - ADG - PTTVTGSLSGLKP G
078 A0A0L0HHV4	
079 Q19BK0	- IKAVCVLR - G D S E V K G T V F F S Q G - D A D S P V K V T G S I T G L T E G
080 Q1W6C0	KGVAVLG-SSEGVKGTINFVQE-GDG-PTTVTGCISGLKPG
081 Q01137	KAVCVMT-GTAGVKGVVKFTOE-TDNGPVHVHAEFSGLKAG
082 R8BKC7	- VKAVAVVR - G D S K V S G T V T F E Q A - S E S A P T Q I T W D I T G N d A N A
083 W8VXK3	
084 A0A0A7KR41	KAICILD - G D V H G K I V F E Q I - S P A H L H I T G Y I M N L P R G
085 A0A0C9MSW7	NAIAVLK-GADVSGVVKFSQA-SEDANVVVEASFTGLKPG
086 Q8S3V1	- VKAVAVLN - G SEGVKGTVFFTQE - GDG - PTTVTASLSGLKP G
087 P24706	-TNAIAVLR-GD-TVSGIIRFKQD-KEGLPTTVTGEVKGLTPG
088 M1HZ66	AIAVLE-GPVKGTVRFVEESSKVKISVDISGLKPNr
089 Q70GL0	KAVCVLK-GDGAVTGTVAFSQQ-NGDSAVTVTGELTGLAPG
090 Input pdb ATOM	ATKAVCVLK-GDGPVQGIINFEQK-ESNGPVKVWGSIKGLTEG
091 A0A0B7ARH9	KAVVVLS-Ag-tSSAVTGTITFTQE-TATSATVVKGEVKGLAPG
	-SKAVCVLK-GYKLHGVINFDQL-QNG-IVIISGVVLGLPEG
092 Q77GG8	KAVCVLT-GPSDVAGVISFCQD-SDG-PTTVEGEIKGLNPG
093 G9M4K5	
094 A9XAN4	
095 E9GNE7	SAVCVLL-GEKVKGVLHFEQQGDILNITGEVTGLTPG
096 S5RRS1	KGVCVMV-GDVTGTIVFHQE-KPTCPVHITGYLYNLPYG
097 A5PLA4	G Q P K I F G Q V L F R Q V - F P N G T A E V K I N L R G F P E - T d n q
098 D4PBQ4	
099 A7S2P3	RGVCCLV-GDNEVKGVIHFTQQ-APDGPCTLRGRITGLTEG
100 D8SBS8	KAVAVLL-GSEVGGVVHFSQE-NEGAPSTITGEVTGLSPG
101 A0A0C9X866	KAVAVMK-GPSNVTGTITFTTTAHHSLTIVGNLTGLDPSA
102 A0A0A0KZZ1	KAVVIIAGGDSNVRGTIQFVQD-SNG-ATHVNGRISGLSPG
103 F1L7A0	- SRAVAVLR - G EGDVRGVVYLTQS - KEDEPTILKGEISGLTP G
104 A0A0A1WUB5	- A K A V S V I N - G D V K G T I Y F E Q Q - D E F S D V K V T G E V T G L A K G
105 A0A140H908	- IKAVCVLR - G DSEVKGTVKFLQE GSGAVNITGEITGLAA G
106 Q5QE66	
107 A0A023PRR8	APKAVVLIS-GNSNIRGSVQFIEE-PNG-ATHVKGRITGLSPG
108 A0A0B7NKC3	NAVAVLK-G N D V S G T V K F S Q E - N E T A P V V V E A S F T G L K P G
109 A0A0L0HUG3	
110 P04178	ATKAVCVLK-GDGPVQGTIYFELKGEKTVLVTGTIKGLAEG
111 C8XTB0	
112 A0A0R3PEV0	AFAGASTGLLPG
113 A0A0S2FJB2	
114 P28758	RAVAVLR-GDSKVSGVVTFEQV-DQNSQVSVIVDLVGNDaNA
115 A0A0K1EMH8	
116 A0A0H5R428	KAVCVIK-GE-SVNGLVTLQQT-AEGAPTTITGSVRGLVPG
117 T2B4T7	- LKAVCVLK - G S G E V S G T V Y F E Q E D C G P V T I K G N I K G L A A G
118 A0A0K1JCZ4	
119 H2BW96	VTMTAVIDGLAEG
120 B9JC81	
121 J3JZL3	VNN-GTSKVDGVVYFKES-TNGILVTGNITGLTPG
122 A0A077WS33	- VKAVAVIR - G DSPVTGTVTFTQE - SENAPTTVEATVTGLTE G
123 A0A131Z1G0	DAICVFNVGNVSGYVTFHQNRDENVTVQGNITNLPKG
124 A0A0C9W110	-QKAVVVLK-GDSPVTGTVTFEQT-SKGGPVTITGDILNLDPSS
125 Q2H4L5	-VKAVAVVR-GDSKVTGSIIFEQE-SESSPTTVTWDITGHDaNA
126 A0A131YHT4	DAICVFQVGNASGYVTFHQNPFSFVKLHGNITRLPPG
127 A0A067RGS0	EAVCYLI - As - t GSTVSGEIRLHQA - SQNNPVEITASIQGLRp PG
128 A0A0U4GB55	VDLMNGDDESVGTAELEQA-SNGVNIMLEGTNIPKG
	KAICVIR-GE-NVTGTVIFKQN-TENDKTTITGEIKGLTPG
129 Q8MUI5 130 K4G4R1	RAVCVMK-GSGDVTGTVNFEQTGSGPVTVKGTINGLTPG
131 A0A091RQ62	- VKAVAVLG - S SEGVSGTIFFTQE - GDG - PTTVTGNVSGLKP G
132 B1PE19	AVAIVESEGVSGIIFFIQE-GDG-PIIVIGNVSGLKPG
133 G3I4K4	RAVCVLN-GDVSGTVFFDQK-DDKSPVVVSGEVKGLLKG
134 S4PG22	
135 K7YBI9	AVKAVCVLK-GESSVTGVINFEQQDNGPVTLSGRITGLTEG
136 D5DR14	
137 A0A0U4E9P5	
138 A0A0S3SGT6	-KKAVALLK-GSSSVQGIVTLIQQDNGPTTVTVRVSGLVPG

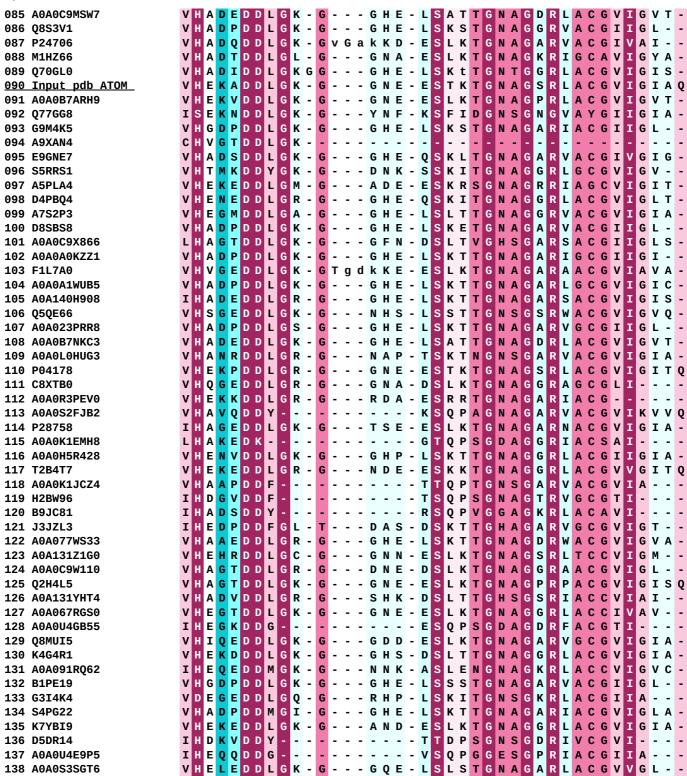
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002	A0A0K0QRG7	0 R	GF	٠v	AF	G D	LV	/ G -	_ (GC	ASA	A G	PH	ENP	FNR	ТНС	D R	- 1	S	STR	١V	GDL	GN
	B2CP37																			ETR			
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	H5SJS3																			EGP			
005	B2VRY4					-														EER			
006	A0A0S3FWV7																			EHF			
007	P81926	ΚH	G F	II	EY	G D	LT	N -	(G C	T S	S G	GH	E NP	F K O	I H G	ΑР	- E	D	DIR	Η۷	GDL	G N
008	E9HT81																			KNR			
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	077253																						
010	S7MJG0																			EER			
011	T2KS30	ΕH	ΑI		ΗEΤ	A D	CS	Sh) - I	DAI	KS:	TG	GH	WNP	T D S	K H G	K W	G D	S	E g Y	H R	GDI	G N
012	A0A0P5R8X0	DΗ	GF	V	EF	G D	ΥT	N -	(G C	IS	A G	РΗ	E N P	TAV	E H G	G P	- Т	D	0 V R	Η۷	GDL	GN
013	W2TQI3																			AIR		_	
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	A0A0C3CGX0					-																	
015	E3VSS4					-														E V R			
016	Q6CPE2																			EER			
017	F1AG60	SH	G F	V	EK	G D	LS	D -	(G C	TS	A G	ΑН	E NP	ENA	T H G	ΑР	- E	D	TVR	Η۷	GDL	G N
018	M1ICI8																			KIR			
	A0D4J6																			EKR			
	E2BK27	_		- 1							_		_			_				s K R			
021	A0A0E3H865	МН	GI	ΙΙ	ΗEΚ	GN	СТ	Gp) -	D F	A S	A G	GH	YNP	LGK	E H G	LN	- N	P	KGP		_	
022	A0A0L0DEP8	DH	ΑF	ΗI	ΙTΥ	G N	PΤ	V A	۱ - ۱	D G	TG	ΑМ	GH	YNP	D G V	SHG	C S	- P	N	- A R	ΗА	GDI	G T
023	A0A0F7M4V1	Ен	GF	I	TD	PN	Сп	N -	(0 G I	KA	A G	GH	FNP	0 E V	D H S	G P	_ R	0	ASQ	HV	GDL	G N
	027538									•									-	VVR		_	
	•																						
	B4K1U0																			EVR			
	E0VCZ4		GF																	PER			
027	G2SJ46																			A A R			
028	Q08FK9	YH	GI	II	EL	G D	ΕT	D -	(G A I	N S (C G	SH	F N P	NNR	HHG	S P	- N	D	EER	ΗI	GDL	G N
	J9S294																			E O R			
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	C6T360																					_	
031	A0A0L0RX52																			KER			
032	A0A0L7R8J2	KH	G M	ΠΙ	EC	G D	IS	Q -	(GCI	D S	V G	DH	FNP	NYT	I H G	G P	- E	DDV	f K R	ΗV	GDL	GN
033	P11418	KH	G F	V	A F	G D	N T	N -	(G C	IS	A G	РН	YNP	FSK	NHG	G P	- D	D	EER	Η۷	GDL	G N
034	Q6MAB6	КН	GF	ΗТ.	I E E	G D	C G	K -		NGI	FΑ	ΔG	ΔН	E N P	MNO	K H G	G P	- D	S	LER	ΗV	G D E	G N
	W0FZ77																			TVR			
	A7L817																			AER			
037	A0A022RUY7					-														EVR	НА	GDL	GN
038	B6HFF6	KH	GI	٧	I E N	G S	TG	N -	· -	E C	L D	A G	GH	YNP	TNV	SHG	G P	- N	D	AER	ΗI	G D W	GN
039	A0A0R3RLM9	LH	GF	II	0 Y	G D	О Т	N -	(G C	IS	A G	РΗ	E N P	YNK	T H G	G P	- Т	D	RMK	ΗI	GDL	GN
	A0A0F7JH02		GF																	TVR			
	•																			SSR			
	A0A0R3Q287																					_	
	065175																			V V R			
043	L9KA73														E S K					QER			
044	A0A078B8U9	ΕН	ΑF	ΗI	I E L	G D	LT	D -	(G C	TS	LΑ	SH	YNP	FGE	SHG	G P	- D	S	CHR	ΗI	GDL	G N
045	A0A0D2VZA5																			A V R			
	P81036																			K D R			
																				SNR			
	U6P345																						
048	K9IWW1														L A V					- P Q			
049	H9BE65	NY	G F	١V	HEL	G D	- T	s -	- '	TCI	D A S	S G	ΑН	FNP	EVT	N H G	G R	- E	Н	NVR	ΗV	GDL	GN
050	Q1HDV5	ER	ΑF	II	0 F	G D	NT	N -	(G C	TS	A G	РН	E NP	FGK	T H G	ΑР	- Т	D	EER	Η۷	GDL	G N
	A0A068VCS5	ЦН	GF	v	ΑL	G D	ТТ	- N -	(GCI	MS:	T G	ΡН	E N P	KGK	E H G	ΑР	- C	D	ENR	ΗА	GDL	G N
	F1LCL1																			FER			
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	V9LDK0																						
	A0A0N5DBX6																			E V R		_	
055	U5EZ17																			QIR			
056	G7KPK8																			DER			
057	C5KTS7	QH	G V	٧	EF	A D	FS	N -	(GC	AS	T G	GH	YNP	FYN	THG	D R	- N	s	RVR	ΗV	GDM	G N
	A0A0G2YHY5																			AIR			
																				AER			
	A0A0K6FUM8																						
	A0A068LRM5																			A V R			
061	B0X9L3																			S V R			
062	U3QZS1																			P D H			
	P16026																			Y P R			
	Q1A4Q2																			DTR			
	• •																						
	A0A0R3SLX3						_	-												AER		_	
	A0A0E3Z7D4																			LER		_	
067	G0CLZ9																			D P H			
068	A0A075W0S9	LH	GF	I	EF	G D	NT	N -	(G C	IS	A G	АН	F N P	HNK	QHG	G P	- K	Н	TER	ΗV	GDL	G N
	L8GDC4																			EER			
	V9IJ95																			DIR			
	G7UUY9																			GAH			
	T1GMG3																			AIR		_	
073	C0ILX5																			E N R			
074	G3BAZ8	LR	G F	V	A F	G D	NT	N -	(G C	TS	A G	PΗ	F N P	FTK	T H G	A P	- E	D	DER	ΗV	GDL	G N

3/12/2017	consult color coded no.
075 I7M6X2	LFGFHIHEFGDLTNGTESVGPHYNPFNKKHGSP-REDESHMGDLGN
076 A0A0S2FH24	SHAIHVHEKGDCSAA-DASSAGGHFNPVGQPHGQV-DHGPHHAGDMNN
077 B9REW9	LHGFHVHALGDTTNGCMSTGPHYNP <mark>AGKE</mark> HGAP- <mark>G</mark> D <mark>EN</mark> RHAGDLGN
078 A0A0L0HHV4	ISEFGDNSNGCTSAGAHFNPTGQVHGDR-TAPVRHVGDLGN
079 Q19BK0	KHGFHVHQFGDNTN GCTSAGSHFNPFGKTHGAP - ED ENRHAGDLGN
080 Q1W6C0	LHGFHVHAFGDTTNGCLSTGPHFNPNGKEHGAP-EDEDRHAGDLGN
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086 Q8S3V1	LHGFHVHALGDTTN GCMSTGPHFNPAGKEHGAP - ED ENRHAGDLGN
087 P24706	LHGFHIHQYGDTTN GCISAGPHFNPYNKTHGDR - TD EIRHVGDLGN
088 M1HZ66	
089 Q70GL0	EHGFHVHEFGDNTN GCTSAGSHFNPFGKTHGAP - GD EERHVGDLGN
090 Input pdb ATOM	LHGFHVHEFGDNTA GCTSAGPHFNPLSRKHGGP - KD EERHVGDLGN
091 A0A0B7ARH9	K
092 Q77GG8	NHGLHVHEFGDETN GFLSMGNHYNPENKKHGSP - FN NERHIGDLGN
093 G9M4K5	KHGFHIHALGDTTNGCMSTGPHFNPKNLEHGAP-EDEIRHAGDLGN
094 A9XAN4	KRGMHIHTFGDNTN GCTSAGPHFNPHNKTHGAP - ED ANRHVGDLGN
095 E9GNE7	D H G F H I H E F G D Y T N G C M S A G P H F N P T A A E H G G P - F D E I R H V G D C G N
096 S5RRS1	Y
097 A5PLA4	V RAIHIHQYGDLSQ GCVTAGPHYNP <mark>Q</mark> DVPH <mark>-</mark> <mark>-</mark> PNHPGDMGN
098 D4PBQ4	KHGFHVHAYGDTTNGCISAGPHFNPTGVDHGGP-SDSVRHVGDLGN
099 A7S2P3	KHGFHIHEFGDNTNGCTSAGAHYNPHGKMHGAP-EDKDRHLGDLGN
100 D8SBS8	KHGFHVHALGDTTN GCNSTGPHFNPTNKEHGAP - ED DTRHVGDLGN
101 A0A0C9X866	ORGLHVHEFGDATD GCASAGLHFNPFNKTHGGP - TD PVHHLGDLGN
102 A0A0A0KZZ1	LHGFHIHALGDTTN GCNSTGPHFNPLKKDHGSP - GD SERHVGDLGN
103 F1L7A0	LHGFHVHEYGDMTN GCISAGAHFNPFKKTHGGP - TD EERHIGDLGN
104 A0A0A1WUB5	LHGFHVHEFGDNTN GCTSAGPHFNPSGDEHGAP - TD KNRHMGDLGN
105 A0A140H908	KHGFHVHEFGDNTN GCTSAGAHFNPSKQEHAGP - ED ASRHAGDLGN
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109 AOAOLOHUG3	EHGFHVHAFGSIFP NCTAAGDHFNPDNTTHGAP - TD SVRHAGDLGN
110 P04178	DHGFHVHQFGDNTQGCTSAGPHFNPESKKHGGP-KDQERHVGDLGN
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112 A0A0R3PEV0	DHGFHVHEFGDLSN RRLGAGLQYNLFISPHGGQ - DDPppSTHVGDLGN
113 A0A0S2FJB2	VHAIHIHEKGDCSAA-DASSAGGHFNPAGQPHGQV-GHGAHHAGDMDN
114 P28758	KRGFHIHQFGDNTNGCTSAGPHFNPEGKTHGDR-TAAVRHVGDLGN
115 A0A0K1EMH8	KHGIHIHQTADCSdP-EAKSAGDHFAPDHNKHGFP-DQAEHHLGDMGN
116 A0A0H5R428	Q H G F H V H E F G D I S Q G C T S A G G H F N P H G K T H G A P - T D V E R H T G D L G N
117 T2B4T7	KHGFHVHVFGDNTNGCISAGPHFNPENLSHGGP-DDEIRHVGDLGN
118 A0A0K1JCZ4	K
119 H2BW96	MHAIHIHENADCSAe - DGSSAGGHWNP <mark>TFEK</mark> HGKWG <mark>D</mark> P <mark>Ag</mark> YHKGDIGN
120 B9JC81	- V A F H I H E S D r c D H T H G F D S A G G H F N P T K A E H G L L - A A N G P H A G D M P N
121 J3JZL3	SHGFHVHAIGDISGGCLTTGAHFNPKNVSHGGP-NATVRHVGDLGN
122 A0A077WS33	KHGFHVHEFGDNTN GCTSAGAHFNPFGKTHGAP - ED EERHVGDLGN
123 A0A131Z1G0	EHGFHVHQFGDLSNGCSSTGPHFNPYGRNHGAP-TAEVRHVGDLGN
124 A0A0C9W110	KRGFHIHGLGDLSDGCMSTGSHFNPFGNTHGAP-SDSVRHVGDLGN
125 Q2H4L5	KRGMHIHTFGDNTNGCTSAGPHFNPHGKTHGAP-VDENRHVGDLGN
126 A0A131YHT4	KHGFHVHEYGDLSDGCTSTGAHYNPLGRTHGGP-NDRKRHVGDLGN
127 A0A067RGS0	LHGFHLHRDGNTDN DCKAAGPHFNPFNHTHGGP - DD AVRHAGDFGN
128 A0A0U4GB55	THGFHIHENGQCEAp-DFKSAGGHFNPGDTDHGFD-TSKGPHAGDLPN
129 Q8MUI5	KHGFHVHEWGDNSMGCISAGAHYNPFGKTHGGP-TDTVRHVGDLGN
130 K4G4R1	KHGFHVHVFGDNTN GCVSAGPHFNPLGKNHGAP - QD LERHVGDLGN
131 A0A091RQ62	GRAIHIHELGDLSK GCDATGGHYNPFSVNH PRHPGDFGN
132 B1PE19	LHGFHVHALGDTTN GCMSTGPHFNPAGKQHGAP - ED ENRHAGDLGN
133 G3I4K4	LHGFHVHQYGDLTR DCNSCGDHFNPDGTSHGSP - QD TDRHRGDLGN
134 S4PG22	LHGFHVHEFGDNTN GCTSAGPHFNPLKQDHGAP - DA AVRHIGDLGN
135 K7YBI9	KHGFHVHEFGDNTN GCTSAGPHFNPLKQDHGAP - DA AVKHIGDLGN
136 D5DR14	RHGFHIHEIGKCEVP-DFKTAGAHFNPFKREHGYK-NTKGPHAGDLPN
	YHGIHVHEYPKCDQP-DFTTAGSHFNPDGNEHGLM-HPEGSHLGDLPN
137 A0A0U4E9P5	
138 A0A0S3SGT6	PHGFHLHEYGDLTNGCLSTGPHFSPKKFTHGAP-EDKIRHAGDLGN

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	E9HT81		TSD															
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010	S7MJG0		T A G															
011	T2KS30	F	T S D	Е	N G	NA	T V		ΤF	K -	T D E	W C	L D	се	d S	TRT	IS	 GRGLI
012	A0A0P5R8X0	I	V A N	Ε	A G	VA	T۷		DΙ	K -	D S L	L S	L S		- G	ANG	ΙI	 GRTIV
013	W2TQI3	Т	A A G	Δ	D G	v s	DТ		DТ	т.	DRV	1 0	ιт		- G	SNG	ΔV	 GRAFV
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016	Q6CPE2		P T D															
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018	M1ICI8	I	Q A D	G	KG	ΚА	ΚY		SF	Υ -	D S M	ΙS	L R		- G	K C N	ΙI	 GRAIV
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021	A0A0E3H865		K V G															
022	A0A0L0DEP8	I	T A A	S	D G	TY	TF	ра	DF	Т-	R D L	ΙD	LT		- G	P R S	٧V	 GRAIV
023	A0A0F7M4V1	I	T A N	N	KG	DΥ	DI		ΕI	N -	NER	LΑ	F S		- G	E N N	ΙL	 NRAVV
024	Q27538	V	E A G	Δ	D G	VΑ	κт		ΚF	s -	D K V	v s	ΙE		- G	ANT	v T	 GRSMV
	B4K1U0		EVG															
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028	Q08FK9	I	Y A N	K	H G	IS	YV		ΥM	I -	DGQ	ΙS	L D		- N	E N S	ΙI	 GRALI
029	J9S294	I	E S G	Е	D G	ТА	ΗV		ΝI	н -	DNI	v s	LY		- G	DRA	v v	 GRSIV
030	C6T360	т	V A N	Δ	D G	VΔ	FΔ		ΤТ	v -	D N O	ТP	ιт		- G	PNS	v v	 GRAIV
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033	P11418		E A N															
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041	A0A0R3Q287	I	V T P	Α	N G	РΤ	PΙ		NV	R -	DSL	МК	FΤ		- G	NRG	ΙV	 GRAFV
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045	A0A0D2VZA5		K A D															
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051	A0A068VCS5		T A G															
052	F1LCL1	I	E A S	Q	A G	VA	ΗI		SI	E -	D S L	v s	LH		- G	P Y S	ΙI	 GRTIV
053	V9LDK0	I	Q A N	Ε	T G	ΚA	S F		R L	0 -	D D K	LK	V W			D	LI	 GRSVV
	A0A0N5DBX6		E A G															
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057	C5KTS7		K A D															
058	A0A0G2YHY5		K A N															
059	A0A0K6FUM8		V A A															
060	A0A068LRM5	I	E A K V	s	N A	LT	ΑV		D K	I -	DNV	МΤ	L F		- G	EYS	V L	 GRSLV
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	A0A075W0S9																	
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 $\overline{ exttt{M}}$ - Insufficient data - the calculation for this site was performed on less than 10% of the sequences.