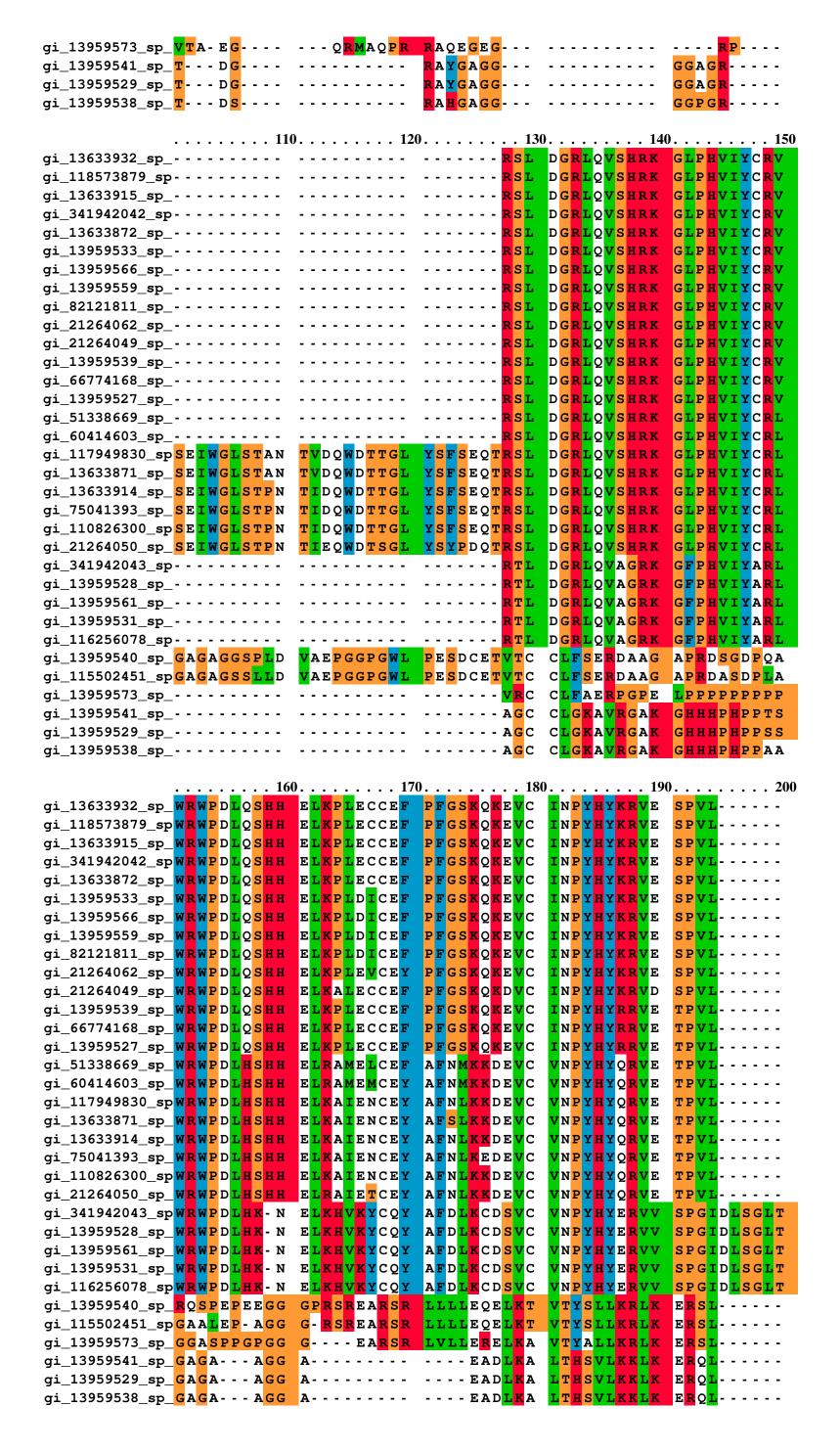
## Results colour-coded according to the CLUSTALX residue colour scheme

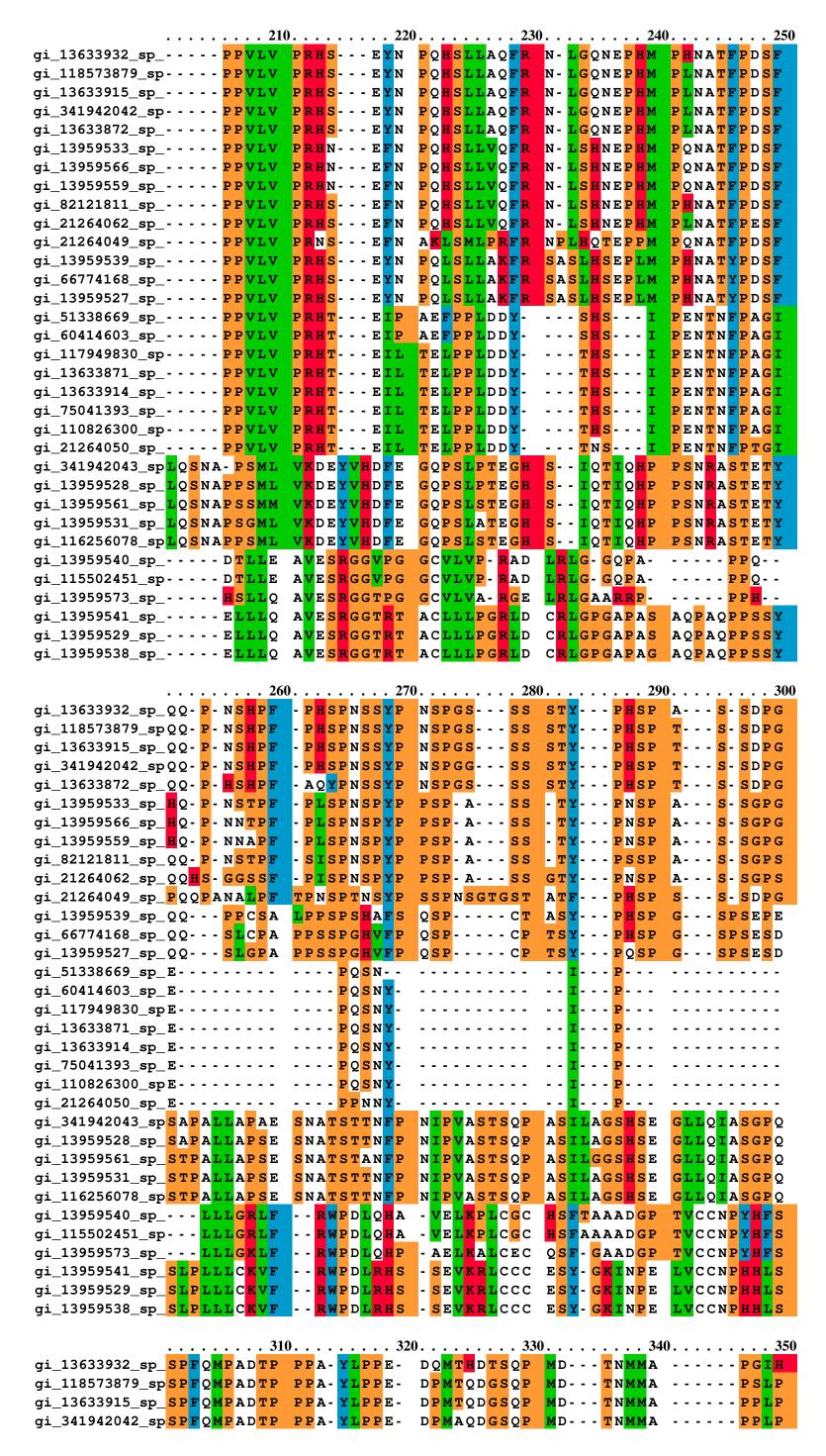
The current colourscheme of the alignment is by **residue**.

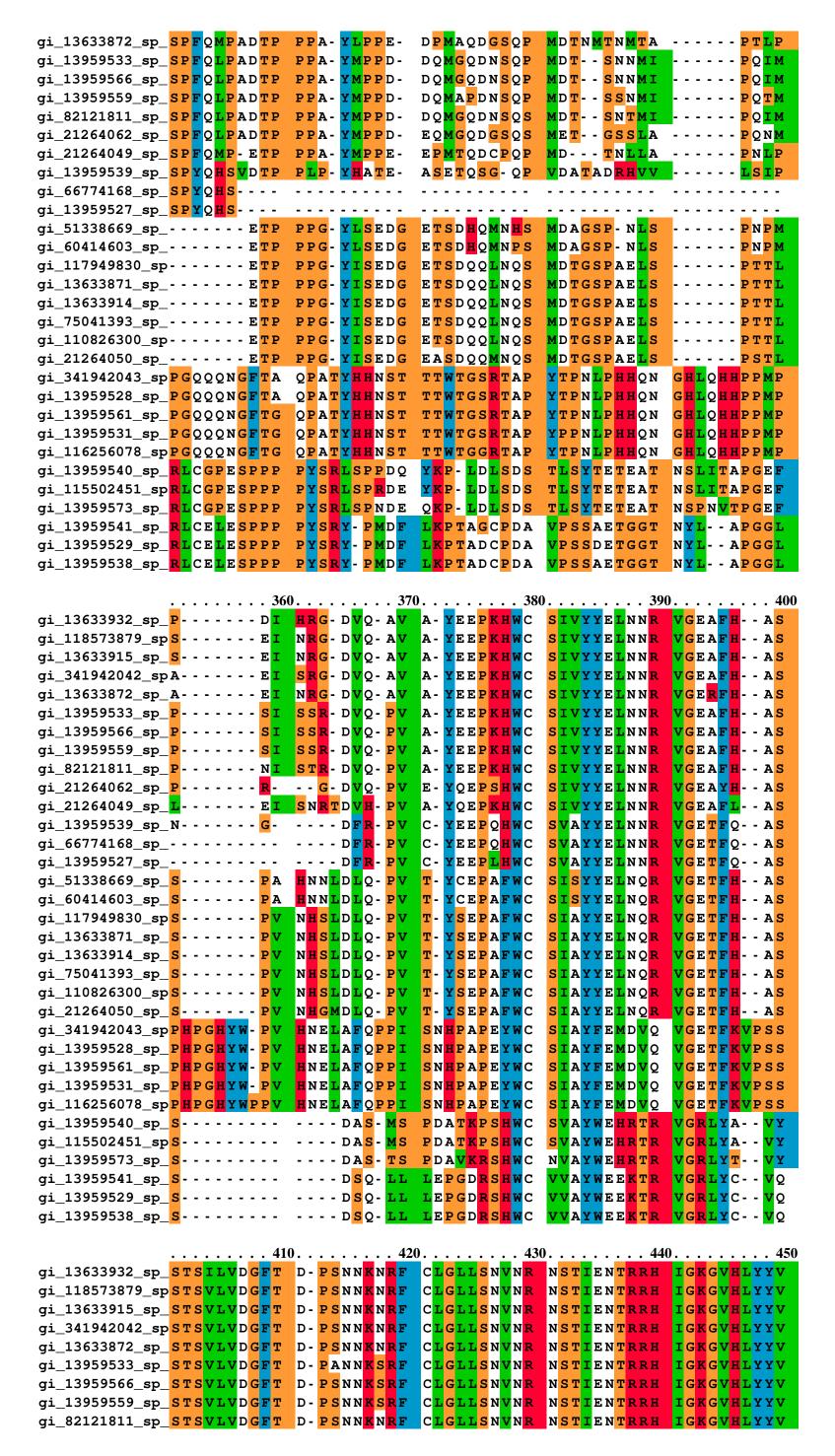
The colour assignments have been adapted from the defaults in CLUSTALX (Thompson et al, 1997) Abstract:

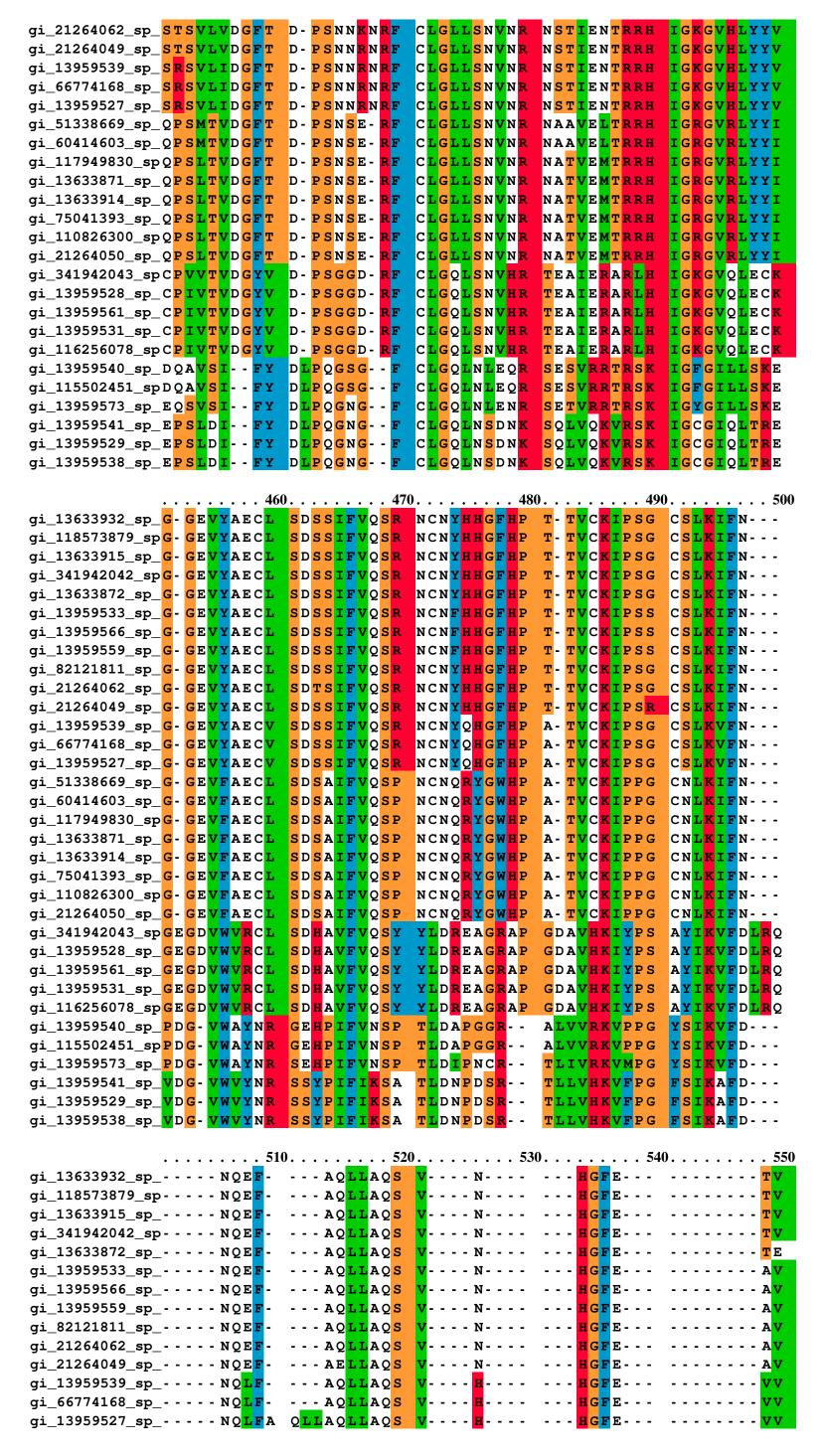
## G, P, S, T H, K, R F, W, Y I, L, M, V

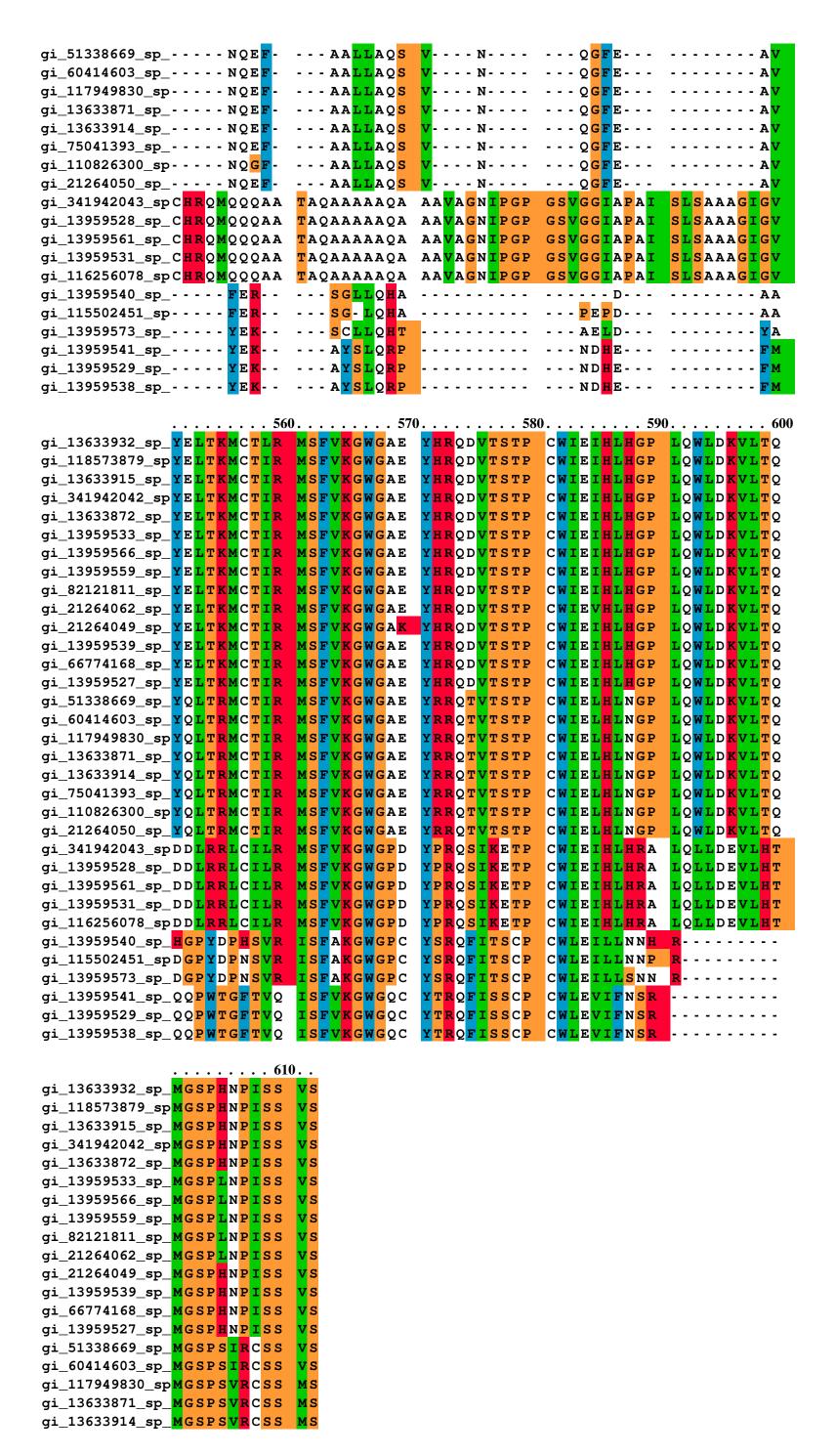
10	20	30	40	50
gi_13633932_sp MN <mark>VT</mark>	SLFSFTSPAV	KRLLGWK		- Q <mark>G</mark> DEEE <mark>KW</mark> A
gi_118573879_sp MNVT	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13633915_sp MNVT	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_341942042_sp	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13633872_spMNVT	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13959533_sp M TSMA	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13959566_spMTSMA	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13959559_spMTSMA	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_82121811_spMTSMA	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_21264062_sp M TSMS	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_21264049_sp MNVT	SLFSFTSPAV	KRLLGWK		- QGDEEEKWA
gi_13959539_sp_MHSTTPIS	SLFSFTSPAV	KRLLGWK		- QGDEEE <mark>KW</mark> A
gi_66774168_sp_MHPSTPIS	SLFSFTSPAV	KRLLGWK		- Q <mark>G</mark> DEEE <mark>KW</mark> A
gi_13959527_sp_ <mark>MHPS</mark> TP <mark>IS</mark>	SLFSFTSPAV	KRLLGWK		- Q <mark>G</mark> DEEE <mark>KW</mark> A
gi_51338669_sp	SILPFTPPIV	KR <mark>LLGWKK</mark>	G	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_60414603_sp	SILPFTPPIV	KR <mark>LLGWKK</mark>	G	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_117949830_sp	S <mark>IL</mark> P <mark>F</mark> TPPVV	KR <mark>LLGWKK</mark> SA	GGSGGA- GGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_13633871_sp	S <mark>IL</mark> P <mark>F</mark> TPPVV	KR <mark>LLGWKK</mark> SA	GGSGGA- GGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_13633914_sp	S <mark>IL</mark> P <mark>F</mark> TPPVV	KR <mark>LLGWKK</mark> SA	GGSGGA- GGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_75041393_sp	SILPFTPPVV	KR <mark>LLGWKK</mark> SA	GGSGGA- GGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_110826300_sp	SILPFTPPVV	KR <mark>LLGWKK</mark> SA	GGSGGA-GGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_21264050_sp <mark>MS</mark>	SILPFTPPVV	KRLLGWKKSA	SGSSGAGGGG	EQN <mark>G</mark> QEE <mark>KW</mark> C
gi_341942043_sp <mark>M</mark> DN <mark>MSIT</mark> N <mark>TP</mark>	TSNDACLSIV	HSLMCHR		- Q <mark>GG</mark> E <mark>SETF</mark> A
gi_13959528_sp_ <mark>M</mark> DN <mark>MSIT</mark> N <mark>TP</mark>	TSNDACLSIV	HSLMCHR		- Q <mark>GG</mark> E <mark>SETF</mark> A
gi_13959561_sp_ <mark>M</mark> DN <mark>MSIT</mark> N <mark>TP</mark>	TSNDACLSIV	HSLMCHR		- QGGESETFA
gi_13959531_sp_MDN <mark>MS</mark> ITN <mark>TP</mark>	TSNDACLSIV	HSLMCHR		- QGGESETFA
gi_116256078_spMDNMSITNTP	TSNDACLSIV	HSLMCHR		- QGGESETFA
gi_13959540_sp_MFRSKRSGLV	RRL-WRSRVV	P DREE - GS	GGGGGVDEDG	SLGSRAEP-A
gi_115502451_spMFRSKRSGLV	RRL-WRSRVV	PDREEGGS	GGGGGGDEDG	SLGSRAEP-A
gi_13959573_sp_ <mark>MFRSKRSGLV</mark> gi_13959541_sp_ <mark>MFRTKRS</mark> ALV	RRL-WRSRVI RRL-WRSRA-	P E R D	GGDGNG	QSSERNAT - A
at 13959541 SD MERTICES ALV				
			GGGGGGG	
gi_13959529_sp_ <mark>MFRTKRS</mark> A <mark>LV</mark>	RRL-WRSRA-	PGGEDEEE G <mark>V</mark>	GGGGGGG	G <mark>L</mark> RGEG-A
	RRL-WRSRA-	PGGEDEEE G <mark>V</mark>		G <mark>L</mark> <mark>R</mark> GEG-A
gi_13959529_sp_ <mark>MFRTKRSALV</mark> gi_13959538_sp_ <mark>MFRTKRS</mark> A <mark>LV</mark>	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE <mark>GV</mark> PGGEDEEE <mark>G</mark> A	GGGGGGG GGGGGGG	GLRGEG-A ELRGEG-A
gi_13959529_sp_ <mark>MFRTKRS</mark> ALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA	GGGGGGG GGGGGGG	GLRGEG-A ELRGEG-A100
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV60 gi_13633932_sp_EKAVDA	RRL-WRSRA-RRL-WRSRA70	PGGEDEEE GV PGGEDEEE GA 80 KKKGAMEE LE	GGGGGGG GGGGGGG 90 KALSCPGQ-P	GL RGEG - A EL RGEG - A 100 SNCVTIP
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV 60 gi_13633932_sp_EKAVDA gi_118573879_spEKAVDA	RRL-WRSRA- RRL-WRSRA	PGGEDEEE GV PGGEDEEE GA80 KKKGAMEE LE KKKGAMEE LE	GGGGGGGGGGGGGGGGCGGGGGGGGGGGGGGG	GLRGEG-A ELRGEG-A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV 60 gi_13633932_sp_EKAVDA gi_13633915_sp_EKAVDA	RRL-WRSRA- RRL-WRSRA	PGGEDEEE GV PGGEDEEE GA80 KKKGAMEELE KKKGAMEELE KKKGAMEELE	GGGGGGGGGGGGGGGGGG	GLRGEG-A ELRGEG-A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV 60 gi_13633932_sp_EKAVDA gi_13633915_sp_EKAVDA gi_341942042_spEKAVDA	RRL-WRSRA- RRL-WRSRA	PGGEDEEE GV PGGEDEEE GA80 KKKGAMEE LE KKKGAMEE LE	GGGGGGGGGGGGGGGGCGGGGGGGGGGGGGGG	GLRGEG-A ELRGEG-A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV 60 gi_13633932_sp_EKAVDA gi_13633915_sp_EKAVDA	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA80 KKKGAMEELE KKKGAMEELE KKKGAMEELE KKKGAMEELE	GGGGGGGGGGGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA 80  KKKGAMEELE  KKKGAMEELE  KKKGAMEELE  KKKGAMEELE  KKKGAMEELE	GGGGGGG	GL RGEG - A EL RGEG - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA 80  KKKGAMEE LE  KKKGAMEE LE  KKKGAMEE LE  KKKGAMEE LE  KKKGAMEE LE  KKKGAMEE LE	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA- RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEEGA	GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	GL RGEG - A EL RGEG - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA	GGGGGGGGGGGGGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA  80  KKKGAMEELE	GGGGGGGGGGGGGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA  80  KKKGAMEELE	GGGGGGG GGGGGGGGG GG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA	GGGGGGGGGGGGGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KRS A LV gi_13959538_sp_MF R T KRS A LV	RRL-WRSRA-	PGGEDEEEGA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RRL-WRSRA-	PGGEDEEE GV PGGEDEEE GA  80  KKKGAMEELE	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RR L - WR S R A - 70 LVKKLK	PGGEDEEE GV PGGEDEEE GA  80  KKK GAMEE LE	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KRS A LV gi_13959538_sp_MF R T KRS A LV	RR L - WR S R A - 70 LVKK LK	PGGEDEEEGA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MFRTKRSALV gi_13959538_sp_MFRTKRSALV	RR L - WR S R A - 70 LVKKLK LVKKL	PGGEDEEE GV PGGEDEEE GA  80  KKK GAMEE LE	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KRS A LV gi_13959538_sp_MF R T KRS A LV	RR L - WR S R A - RR L - WR S R A - 70  LVKK L K L K L K L K L K L K L K L K L	PGGEDEEEGA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KR S A LV gi_13959538_sp_MF R T KR S A LV	RR L - WR S R A - 70  LVKK LK LVKK L	PGGEDEEEGA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KRS A LV gi_13959538_sp_MF R T KRS A LV	RR L - WR S R A - 70  LVKKLK LVKKL	PGGEDEEE GV PGGEDEEE GA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF R T KR S A LV gi_13959538_sp_MF R T KR S A LV	RR L - WR S R A - 70 LVKK LK LVKK L	PGGEDEEEGA	GGGGGGG	G L R G E G - A E L R G E G - A
gi_13959529_sp_MF       MF       RT       KR       A       LV         gi_13959538_sp_MF       RT       KR       A       LV	RR L - WR S R A - 70 LVKK LK LVKK L	PGGEDEEEGA	GGGGGGG GGGGGGGGG GG	G L R G E G - A E L R G E G - A
gi_13959529_sp_       MFRTKRSALV         gi_13959538_sp_       MFRTKRSALV         gi_13633932_sp_E       KAVDA         gi_118573879_spEKAVDA       gi_13633915_sp_EKAVDA         gi_341942042_spEKAVDA       gi_13633872_sp_EKAVDA         gi_13959533_sp_EKAVDA       gi_13959559_sp_EKAVDA         gi_13959559_sp_EKAVDA       gi_21264062_sp_EKAVDA         gi_21264049_sp_EKAVDA       gi_33959539_sp_EKAVDS         gi_13959527_sp_EKAVDS       gi_13959527_sp_EKAVDS         gi_51338669_sp_EKAVDS       gi_117949830_sp_EKAVKS	RR L - WR S R A - 70 LVKK LK LVKK L	PGGEDEEEGA	GGGGGGG GGGGGGGGG GG	G L R G E G - A E L R G E G - A
gi_13959529_sp_       MFRTKRSALV         gi_13959538_sp_       MFRTKRSALV         gi_13633932_sp_EKAVDA       60         gi_118573879_spEKAVDA       61         gi_341942042_spEKAVDA       61         gi_13633872_sp_EKAVDA	RR L - WR S R A - 70 LVKK LK LVKK L	P G G E D E E E G V P G G E D E E E G A	GGGGGGG GGGGGGGGG GG	G L R G E G - A E L R G E G - A
gi_13959529_sp_       MFRTKRSALV         gi_13959538_sp_       MFRTKRSALV         gi_13633932_sp_E       KAVDA         gi_118573879_spEKAVDA       gi_13633915_sp_EKAVDA         gi_341942042_spEKAVDA       gi_13633872_sp_EKAVDA         gi_13959533_sp_EKAVDA       gi_13959559_sp_EKAVDA         gi_13959559_sp_EKAVDA       gi_21264062_sp_EKAVDA         gi_21264049_sp_EKAVDA       gi_33959539_sp_EKAVDS         gi_13959527_sp_EKAVDS       gi_13959527_sp_EKAVDS         gi_51338669_sp_EKAVDS       gi_117949830_sp_EKAVKS	R R L - W R S R A - 70 LV K K L K LV K K L C	PGGEDEEEGA	GGGGGGG GGGGGGGGG GG	G L R G E G - A E L R G E G - A











gi_75041393_sp_	M	G	S	P	S	V	R	С	S	S	M	S	
gi_110826300_sp	M	G	S	P	S	V	R	С	S	S	M	S	
gi_21264050_sp_	M	G	S	P	S	V	R	С	S	S	M	S	
gi_341942043_sp	M	-	-	P	Ι	A	D	P	Q	P	L	D	
gi_13959528_sp_	M	-	-	P	Ι	A	D	P	Q	P	L	D	
gi_13959561_sp_	M	-	-	P	Ι	A	D	P	Q	P	L	D	
gi_13959531_sp_	M	-	-	P	Ι	A	D	P	Q	P	L	D	
gi_116256078_sp	M	-	-	P	Ι	A	D	P	Q	P	L	D	
gi_13959540_sp_	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	
gi_115502451_sp	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	
gi_13959573_sp_	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	
gi_13959541_sp_	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	
gi_13959529_sp_	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	
gi_13959538_sp_	<b>-</b>	-	-	-	-	-	-	-	-	-	-	-	