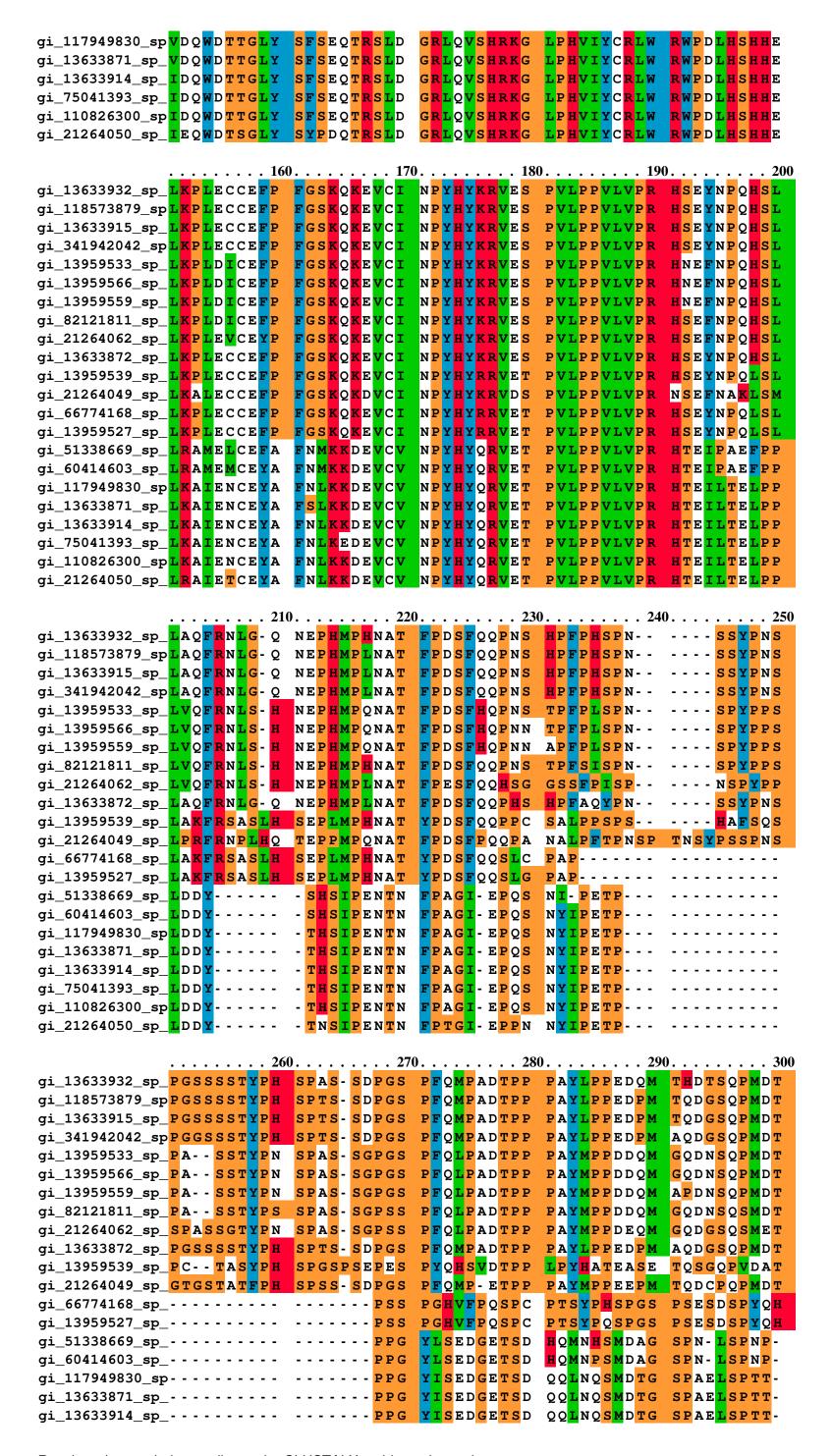
## Results colour-coded according to the CLUSTALX residue colour scheme

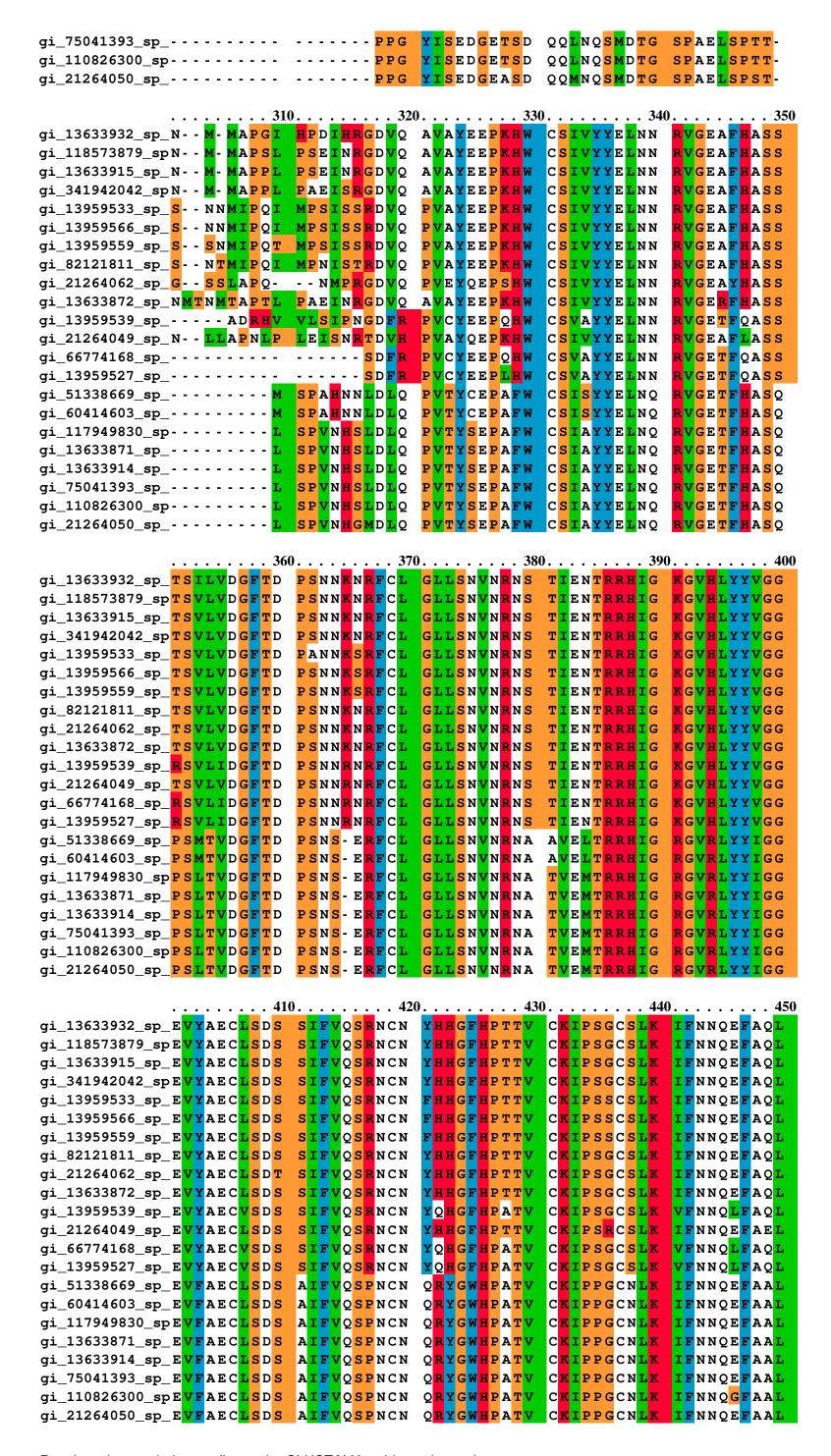
The current colourscheme of the alignment is by **residue**.

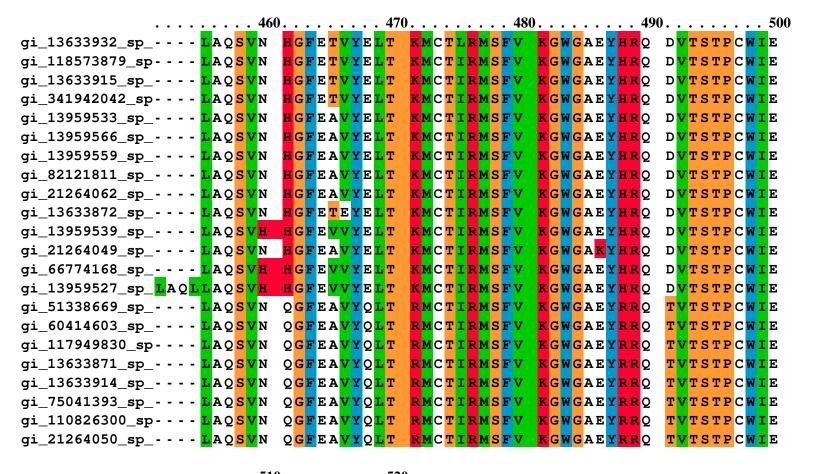
The colour assignments have been adapted from the defaults in CLUSTALX (Thompson et al, 1997) Abstract:

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

10	20	30	40	50
gi_13633932_sp MNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_118573879_spMNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13633915_sp MNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_341942042_spMNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13959533_sp MTSMASL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13959566_sp MTSMASL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13959559_spMTSMASL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_82121811_sp MTSMASL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_21264062_spMTSMSSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13633872_sp MNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13959539_sp_MHSTTPISSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_21264049_sp MNVTSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_66774168_sp_MHPSTPISSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_13959527_sp_MHPSTPISSL	FSFTSPAVKR	LLGWKQ		GDEEEKWAEK
gi_51338669_sp MSSI	LPFTPPIVKR	LLGWKK	<mark>G</mark> EQ	NGQEEKWCEK
gi_60414603_sp MSSI	LPFTPPIVKR	LLGWKK	GEQ	NGQEEKWCEK
gi_117949830_sp MSSI	LPFTPPVVKR	LLGWKKSAGG	SG-GAGGGEQ	NGQEEKWCEK NGQEEKWCEK
gi_13633871_sp MSSI	LPFTPPVVKR	LLGWKKSAGG	SG-GAGGGEQ	NGQEEKWCEK
gi_13633914_sp MSSI	LPFTPPVVKR	LLGWKKSAGG	SG-GAGGGEQ	NGQEEKWCEK
gi_75041393_sp MSSI	LPFTPPVVKR	LLGWKKSAGG	SG-GAGGGEQ	NGQEEKWCEK NGQEEKWCEK
gi_110826300_sp MSSI	LPFTPPVVKR		SG-GAGGGEQ	NGQEEKWCEK NGQEEKWCEK
_	LPFTPPVVKR	LLGWKKSAGG LLGWKKSASG	SSGAGGGEQ SSGAGGGGEQ	
gi_21264050_sp	LPFTPPVVKK	LLGWKKSASG	SSGAGGGGEQ	NGQEE <mark>KW</mark> CE <mark>K</mark>
60	70	80	90	100
gi_13633932_sp_AVDALVKKLK	KKKGAMEELE	KALSCPGQPS	NC <mark>VTIP</mark>	100
gi_118573879_spAVDALVKKLK	KKKGAMEE LE	KALSCPGQPS	NCVTIP	
gi_13633915_sp_AVDALVKKLK	KKKGAMEELE	KALSCPGQPS	NCVTIP	
gi_341942042_spAVDALVKKLK	KKKGAMEELE	KALSCPGQPS	NCVTIP	
gi_13959533_sp_AVDALVKKLK	KKKGAMEE LE	KALSSPGQPS	KCVTIP	
gi_13959566_sp_AVDALVKKLK	KKKGAMEELE	KALSSPGQPS	KCVTIP	
gi_13959559_sp_AVDALVKKLK	KKKGAMEELE	KALSSPGQPS	KCVTIP	
gi_82121811_sp_AVDALVKKLK	KKKGAMEELE KKKGAMEELE	KALSSPGQPS	KCVTIP	
gi_21264062_sp_AVDALVKKLK	KKKGAMEDLE	KALSSPGQPS	KCVTIP	
gi_13633872_sp_AVDALVKKLK	KKKGAMEE LE	KALSCPGQPS	NCVTIP	
gi_13959539_sp_AVDSLVKKLK	KKKGAMDE LE	RALSCPGQPS	KCVTIP	
gi_21264049_sp_AVDALVKKLK	KKKGAMEELE	RALSCPGQPS	NCVTIP	
gi_66774168_sp_AVDSLVKKLK	KKKGAMDELE	RALSCPGQPS	KCVTIP	
gi_13959527_sp_AVDSLVKKLK	KKKGAMDELE	RALSCPGQPS	KCVTIP	
gi_51338669_sp_AVKSLVKKLK	K- TGQLDELE	KAITTQNVNT	KCITIP	
gi_60414603_sp_AVKSLVKKLK	K-TGQLDELE	KAITTQNINT	KCITIP	
gi_117949830_spAVKSLVKKLK	K-TGRLDELE	KAITTQNCNT	KCVTIPSTCS	E I W G L S T A N T
gi_13633871_sp_AVKSLVKKLK	K-TGRLDELE	KAITTQNCNT	KCVTIPSTCS	EIWGLSTANT
gi_13633914_sp_AVKSLVKKLK	K-TGRLDELE	KAITTQNCNT	KCVTIPSTCS	EIWGLSTPNT
gi_75041393_sp_AVKSLVKKLK	K-TGRLDELE	KAITTQNCNT	KCVTIPSTCS	EIWGLSTPNT
gi_110826300_spAVKSLVKKLK	K-TGRLDELE	KAITTQNCNT	KCVTIPSTCS	EIWGLSTPNT
gi_21264050_sp_AVKSLVKKLK	K-TGQLDELE	KAITTQNRNT	KCVTIPSNCS	EIWGLSTPNT
gi_zizo4030_sp_n <mark>+R5</mark> zvkkuzk	K IOQUDUU	Mari Zumu	MCVILI DAGE	DINCEDII NI
11	0 120	0 130	) 140	) <u>.</u> . <u> 1</u> 50
gi_13633932_sp		GRLQVSHRKG	LPHVIYCRVW	
gi_118573879_sp		GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13633915_sp		GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_341942042_sp		GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13959533_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13959566_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13959559_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_82121811_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_21264062_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13633872_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_13959539_sp	RSLD	GRLQVSHRKG	LPHVIYCRVW	RWPDLQSHHE
gi_21264049_sp		Z J D II II II		
~- <u></u>		GRIOVSHEKC	T.PHVTVCPVW	RWPDIOSHUF
<del>-</del>	<mark>RSL</mark> D	GRLOVSHRKG	LPHVIYCRVW	RWPDLOSHHE
gi_66774168_sp	<mark>RSL</mark> D <mark>RSL</mark> D	G <mark>RL</mark> Q <mark>V</mark> SHRKG	LPHVIYC <mark>R</mark> VW	RWPDLQSHHE
gi_66774168_sp	<mark>RSL</mark> D <mark>RSL</mark> D <mark>RSL</mark> D	GRLQVSHRKG GRLQVSHRKG	LPHVIYCRVW LPHVIYCRVW	RWPDLQSHHE RWPDLQSHHE
gi_66774168_sp	<mark>RSL</mark> D RSLD <mark>RSL</mark> D	GRLQVSHRKG GRLQVSHRKG GRLQVSHRKG	LPHVIYC <mark>R</mark> VW	RWPDLQSHHE RWPDLQSHHE RWPDL <mark>H</mark> SHHE







. . . . . . . . . . 510 . . . . . . . . . 520 . . . . . . . . gi 13633932 sp IHLHGPLOWL DKVLTOMGSP HNPISSVS gi\_118573879\_sp IHLHGPLQWL DKVLTQMGSP HNPISSVS gi\_13633915\_sp\_IHLHGPLQWL DKVLTQMGSP HNPISSVS HNPISSVS gi\_341942042\_sp IHLHGPLQWL DKVLTQMGSP gi\_13959533\_sp\_IHLHGPLQWL DKVLTQMGSP LNPISSVS gi\_13959566\_sp\_IHLHGPLQWL DKVLTQMGSP LNPISSVS gi\_13959559\_sp\_IHLHGPLQWL DKVLTQMGSP LNPISSVS qi\_82121811\_sp\_IHLHGPLQWL DKVLTQMGSP LNPISSVS gi\_21264062\_sp\_VHLHGPLQWL DKVLTQMGSP LNPISSVS gi\_13633872\_sp\_IHLHGPLQWL DKVLTQMGSP HNPISSVS HNPISSVS gi\_13959539\_sp\_IHLHGPLQWL DKVLTQMGSP qi\_21264049\_sp\_IHLHGPLQWL DKVLTQMGSP HNPISSVS gi\_66774168\_sp\_IHLHGPLQWL DKVLTQMGSP HNPISSVS gi\_13959527\_sp\_IHLHGPLQWL DKVLTQMGSP HNPISSVS gi\_51338669\_sp\_LHLNGPLQWL DKVLTQMGSP SIRCSSVS gi\_60414603\_sp\_LHLNGPLQWL DKVLTQMGSP SIRCSSVS gi\_117949830\_spLHLNGPLQWL DKVLTQMGSP SVRCSSMS gi\_13633871\_sp\_LHLNGPLQWL DKVLTQMGSP SVRCSSMS gi\_13633914\_sp\_LHLNGPLQWL DKVLTQMGSP SVRCSSMS gi\_75041393\_sp\_LHLNGPLQWL DKVLTQMGSP SVRCSSMS gi\_110826300\_spLHLNGPLQWL DKVLTQMGSP SVRCSSMS gi\_21264050\_sp\_LHLNGPLQWL DKVLTQMGSP SVRCSSMS