## Results colour-coded for amino acid conservation

The current colourscheme of the alignment is for **amino acid conservation**.

The conservation scoring is performed by PRALINE. The scoring scheme works from 0 for the least conserved alignment position, up to 10 for the most conserved alignment position. The colour assignments are:

Unconserved 0 1 2 3 4 5 6 7 8 9 10 Conserved

	10	20	20	40	50
NP_115893_1_pro	10	EQDGGRGIPL	PIQTFLWRQT	SAFLRPKLGK	QYEASCVSFE
XP_003309496_1_		EQDGGRGIPL	PIQTFLWRQT	SAFLRPKLGK	QYEASCVSFE QYEASCVSFE
NP_001193492_1_		EQDSGRGIPL	PIQTFLWRQT	SAFLRPKLGK	QYEASCVSFE
NP_780719_2_pro		EQDGGRGIPL	PIQTFLWRQT	SAFLRPKLGK	QYEASCVSFE
=	*****	* * * <mark>7</mark> * * * * *	*****	*****	*****
		•			
	60	70	80	90	100
NP_115893_1_pro		LSPALSEAIQ	SISRWELVQA	ALPHVLHCTA	TLLSNRNKLG
XP_003309496_1_	RVLVENKLHG	LSPALSEAIQ	SISRWELVQA	ALPHVLHCTA	TLLSNRNKLG
NP_001193492_1_	RVLVENKLHG	LSPALSEAIQ	SISRWELVQA	ALPHVLHCTA	TLLSNRNKLG
NP_780719_2_pro		LSPALSEAIQ	SISRWELVQA	ALPHVLHCTA	TLLSNRNKLG
Consistency	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * *
		120	130		150
NP_115893_1_pro		KLLHTLHWML	LEAPQDCNNE	RFGGTDRGSS	WGGSSSAFIH
XP_003309496_1_		KLLHTLHWML	LEAPODCNNE	RFGGTDRGSS	WGGSSSAFIH
NP_001193492_1_ NP_780719_2_pro		KLLHTLHWML KLLHTLHWML	LEAPQDCNSE LEAPODCNND	RFGGTDRGSS OFGGTDRGSS	WAGSSSAFVH WGGSSSAFIH
_	*****	* * * * * * * * * * * * * * * * * * *	**********	7 * * * * * * * * *	*7******9*
Consistency			, , , , , , , , , , , , , , , , , , ,	7	"
	160	170	180	190	200
NP_115893_1_pro		PCQSSSNDEE	ENNRRK I F Q N	SMATVELFVF	LFAPLVHRIK
XP_003309496_1_		PCQSSSNDEE	ENNRRKIF QN	SMATVELFVF	LFAPLVHRIK
NP_001193492_1_		PCQSTAHDEE	ENNRRKIFQN	SMATVELFVF	LFAPLVHRIK
NP_780719_2_pro		PCRSSSHDEE	ENNRRK <mark>T</mark> FQN	SMATVELFVF	LFAPLVHRIK
_	*9*****	* * <mark>7 * 7 8 6</mark> * * *	* * * * * * <mark>6</mark> * * *	*****	*****
•					
	210	220	230	240	250
NP_115893_1_pro	ESDLTFRLAS	GLVIWQPMWE	HRQP <mark>G</mark> VSGFT	ALVKPIRNII	TAKRSSPINS
XP_003309496_1_	ESDLTFRLAS	GLVIWQPMWE	HRQP <mark>E</mark> VSGFT	ALVKPIRNII	TAKRSSPINS
NP_001193492_1_		GLVIWQPMWE	HRQP <mark>E</mark> VSGFT	ALVKPIRNII	TAKRSSPINS
NP_780719_2_pro		GLVIWQPMWE	HRQP <mark>E</mark> VSGFT	ALVKPIRNII	TAKRSSPINS
Consistency	* * * * * * * * * *	* * * * * * * * *	**** <mark>6</mark> *****	* * * * * * * * *	* * * * * * * * *
	260	270	200	200	200
NP_115893_1_pro		DARHL-EGLQ			
XP_003309496_1_		DARHL-EGLQ DARHL-EGLQ	VVCETFQSDS VVCETFQSDS	ISPKATISGC ISPKATISGC	HRGNSFDGSL HRGNSFDGSL
NP_001193492_1_		DTRHR-EGLQ	VVCETFQSDS	ISPKATISGC	HRGNSLDGSL
NP_780719_2_pro			_	IDENALIDGE	
_	OSOTCESPNO	DTROOGEGIO	VVSEALOSDS	TSPKATTSGC	_
0011515101105	The second secon	DTRQQ <mark>G</mark> EGLQ * 6 * 6 4 0 * * * *	VV <mark>SEAL</mark> QSDS **6*77****	ISPKATISGC *****	H <mark>Q</mark> GNS <mark>F</mark> DGSL
	<b>QSQTCESPNQ</b> ** 7 ** * * * * *	DTRQQGEGLQ * 6 * 6 <mark>4 0</mark> * * * *	VVSEALQSDS **6*77****	ISPKATISGC ******	_
	* * <mark>7</mark> * * * * * * *	* <mark>6 * 6 4 0</mark> * * * *	* * <mark>6</mark> * <mark>7 7</mark> * * * *	* * * * * * * * *	HQGNS <mark>F</mark> DGSL *7*** <sup>7</sup> ****
	* * <sup>7</sup> * * * * * * * * * * * * * * * * * * *	* <mark>6 * 6 4 0</mark> * * * *		* * * * * * * * *	HQGNS <mark>F</mark> DGSL *7*** <sup>7</sup> ****
NP_115893_1_pro XP_003309496_1_	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 <mark>4 0</mark> * * * * 320	* * 6 * 7 7 * * * * 	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	** 6 * 77 * * * *	***********	HQGNSFDGSL *7***7****350 QPHWSEEGTQ
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	* * 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL	HQGNSFDGSL *7***7**** 350  QPHWSEEGTQ  QPHWSEEGTQ
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	**6*77****330 PCQRSRYATY PCQRSRYATY PCQRSRYATY	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL	HQGNSFDGSL *7***7****350 QPHWSEEGTQ QPHWSEEGTQ QPHWSEEGTQ
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	** 6 * 77 ** * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL ********	HQGNSFDGSL *7***7****350 QPHWSEEGTQ QPHWSEEGTQ QPHWSEEGTQ QPHWSEEGTQ QPHWSEEGTQ x********
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	**6*77****	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL **********390 RPRSSSMVAA	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL *********390 RPRSSSMVAA RPRSSSMVAA	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	** 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL *********390 RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL ********390 RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	* * 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL *********390 RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	** 7 *******	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL *********390 RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA ********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	** 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********340 FDVAVLRCLL FDVAVLRCLL FDVAVLRCLL *********390 RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA RPRSSSMVAA **********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	** 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	** 7 ******	* 6 * 6 4 0 * * * * *	** 6 * 77 ** * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	*** 7 * * * * * * * * * * * * * * * * *	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	*** 7 ********	* 6 * 6 4 0 * * * * *	** 6 * 77 * * * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	*** 7 ********	* 6 * 6 4 0 * * * * *	** 6 * 777 ** * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	** 7 *******	* 6 * 6 4 0 * * * * *	** 6 * 777 ** * *	*********	HQGNSFDGSL *7***7****
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	** 7 *******	* 6 * 6 4 0 * * * * *	** 6 * 777 ** * *	*********	HQGNSFDGSL *7***7****

XP_003309496_1_ KEDRERKGS NP_001193492_1_ KEDRERKGS NP_780719_2_pro KEDRERKGS Consistency * * * * * * * * *	I PFHHTGKRRP I PFHHTGKRRP	RRMGVPFLLH RRMGVPFLLH RRMGVPFLLH	EDHLDVSPTR EDHLDVSPTR EDHLDVSPTR	STFSFGSFSG STFSFGSFSG STFSFGSFSG
Consistency				
	510 52			
NP_115893_1_proLGEDRRGIE XP_003309496_1_LGEDRRGIE		LTRRGSSDAA LTRRGSSDAA	TEMESLSARH TEMESLSARH	SHSHHTLVSD SHSHHTLVSD
NP_001193492_1_LGEDRRGME		FTRRGSSDAA	TEMESLSARH	SHSHHTLVSD
NP_780719_2_proLGEDRRGIE		L TRRGSSDAA	TEMESLSARH	SHSHHTLVSD
Consistency * * * * * * * 7 *	* * * * * * * * * * *	7 * * * * * * * * *	*****	* * * * * * * * *
	560 57	0 580	590	600
NP_115893_1_proLPDPSNSHG		STITVATENT	TLASFNVGYA	DFF <mark>NEHMRKL</mark>
XP_003309496_1_ <mark>LPD</mark> PSNSHG		STITVATFNT	TLASFNVGYA	DFF <mark>N</mark> EHMRKL
NP_001193492_1_PPDHSNSHG		STITVATENT	TLASFNVGYA	DFFSEHMRKL DFFSEHMRKL
NP_780719_2_proLPDHSNSHG Consistency 5 * * 4 * * * *		STITVATFNT *****	TLASFNVGYA *******	*** <mark>7</mark> *****
	610 62			
NP_115893_1_proCNQVPIPEN XP_003309496_1_CNQVPIPEN		RSLTDSCINY RSLTDSCINY	SYLEDTEHID SYLEDTEHID	GTNNFVHKNG GTNNFVHKNG
NP_001193492_1_CNQVPIPEM		RSLTDSCINY	SYLEDTEHID	GTNNFVHKNG
NP_780719_2_pro <mark>C</mark> S <mark>QVPIPEM</mark>	P HEPLACANLP	RSLTDSCINY	SYLEDTEHID	GTNNFVHKNG
Consistency * 7 * * * * * * *	* * * * * * * * * * *	* * * * * * * * *	* * * * * * * * * *	* * * * * * * * *
	660 67	0	690	700
NP_115893_1_proMLDLSVVLK		SRICDVALNI	VECLLQLGVV	PCVEKNRKKS
XP_003309496_1_MLDLSVVLK		SRICDVALNI	VECLLQLGVV	PCVEKNRKKS
NP_001193492_1_MLDLSVVLK		SRICDVALNI	VECLLQLGVV	PCVEKNRKKS
NP_780719_2_proMLDLSVVLK Consistency *******		SRICDVALNI ******	VECLLQLGVV ******	PCVEKNRKKS *******
Consistency				
	710 72			
NP_115893_1_proENKENETLE		GVSGSSTCGF GVSGSSTCGF	GGPAVSGAGD GGPAVSGAGD	GGGEEGGGD GGGEEGGGD
XP_003309496_1_ENKENETLE NP_001193492_1_ENKENGTVE		GVSGSSTCGF GVSGSSTCGF	GGPAVSGAGD GGPTVSGAGD	GGGDEGGGGD
NP_780719_2_proENKENESVE		GVS <mark>SSTS</mark> GF	GAP SASGAGD	GGGEEGGGD
Consistency * * * * * 6 7 7 *	* * * * * * * <mark>7</mark> * * * *	* * * <mark>7</mark> * * * <mark>6</mark> * *	* <mark>7 * 6 7</mark> * * * * *	* * * 8 * * * * *
	760 77	n 790	700	800
NP_115893_1_pro <mark>GG</mark> <mark>GGGG</mark>		YEKNDKNQEK	DESTPVSNHR	LALTMLIKIV
XP_003309496_1_ <mark>GG</mark> <mark>GGGG</mark> I		YEKN <mark>DKNQE</mark> K	D <mark>ES</mark> TPVSNHR	LALTMLIKIV
NP_001193492_1_GG GGGGG		YEKNDKNQDK	D <mark>ESI</mark> PVSNHR	LALTMLIKIV
NP_780719_2_proGGGGGGGGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		YEKNEKNQEK ****8***8*	DDNIPVSNHR *875*****	LALTMLIKIV *******
Consistency		<mark>0</mark> <mark>0</mark> .	-	
	810 82	0 830	840	850
NP_115893_1_proKSLGCAYGO		LRHQVFRENA	QNCLTKLYKL	DK <mark>M</mark> QFRQTMR
XP_003309496_1_KSLGCAYGC NP_001193492_1_KSLGCAYGC		LRHQVFRENA LRHQVFRENA	QNCLTKLYKL QNCLTKLYKL	DK <mark>M</mark> QFRQTMR DKMQFRQTMR
NP_780719_2_proKSLGCAYGO		LRHQVFRENA	QNCLTKLYKL	DKIQFRQTMR
Consistency * * * * * * * * *	* ********	* * * * * * * * * *	*****	* * <mark>7</mark> * * * * * *
	860 05	Λ 000	000	000
NP_115893_1_proDYVNKDSLN	860	FCMEPVTDNK	AGFGNNFTTV	DNKSTAQNVE
XP_003309496_1_DYVNKDSLN		FCMEPVTDNK	AGFGNNFTTV	DNKSTAQNVE
NP_001193492_1_DYVNKDSLN		FCMEPVTDNK	AGFGNNFTTV	DNKSTAQNVE
NP_780719_2_proDYVNKDSLN Consistency		F C M E P V T D N K * * * * * * * * * *	AGFGNNFTTV ******	DNKSTAQNVE *******
Consistency *******				
	910 92	0 930	940	950
NP_115893_1_proGIIVSAMF		ELHSPENLGL	YCDIRQLVQF	IKEAHGNVFR
XP_003309496_1_GIIVSAMFF NP_001193492_1_GIVVSAMFF		ELHSPENLGL ELHSPENLGL	YCDIRQLVQF YCDIRQLVQF	IKEAHGNVFR IKEANGNVFR
NP_780719_2_proGIIVGAMFF		ELHSPENLGL	YCDIRQLVQF	IKEAHGNVFR
Consistency ** 9 * 7 * * * *		* * * * * * * * *	****	* * * * <mark>7</mark> * * * * *
	060	0.000	000	4000
NP_115893_1_proRVALSALLI	96097 S AEKLAPGKKV	O 980  EENEQESKPA	GSKRSEAGS I	VDKGQVSSAP
XP_003309496_1_RVALSALLI		EEN <mark>EQ</mark> ESKPA	GSKRSEAGS I	VDKGQVSSAP
NP_001193492_1_RVALSALLI		EEN <mark>EP</mark> ESKP <mark>G</mark>	RGKRSEAGSV	V D K G P V T A A P
NP_780719_2_proRVALSALLI	S AEKLAPGKKV	EEN <mark>GQ</mark> ESKP <mark>V</mark>	GSKRSEAGS I	ADKG Q V S S A P
Consistency * * * * * * * * *	* *******	*** <mark>66</mark> *** <mark>5</mark>	67******	7 * * * <mark>6 *</mark> 7 8 * *

	1010 10	103	RO 104	0 1050
NP_115893_1_proEECRSFM		MQGANLGRKD	FWRKMFKSQS	AASDTSSQSE
XP_003309496_1_EECRSFM		MQGANLGRKD	FWRKMFKSQS	AASDTSSQSE
NP_001193492_1_EECRSFM	and the second	MQGGNLGRKD	FWRKMFKSQS	AASDTSSQSE
NP_780719_2_proEECRSFM		MQGGNLGRKD	FWRKMFKSQS	AASDTSSQSE
Consistency ******	***	* * * <mark>6</mark> * * * * * *	* * * * * * * * * *	* * * * * * * * * *
	1060 10			
NP_115893_1_proQDTSECT		SRSRRISLRK	KLKLPIGKRN	WLKRSSLSGL
XP_003309496_1_QDTSECT		SRSRRISLRK	KLKLPIGKRN	WLKRSSLSGL
NP_001193492_1_QDTSECT		SRSRRISLRK SRSRRISLRK	KLKLPI <mark>GKR</mark> N KLKLPIGN	WLKRSSLSGL WLKRSSLSGL
Consistency * * * * * * *		*****	* * * * * * 5 5 6 *	*****
Consistency	<u>'</u>		<b>55</b> 0	
• • • • • • •	1110 11	120	30	0
NP_115893_1_proADGVEDL	LDI SSVDRLSFIR	QSSKVKFTSA	VKLSEGGPGS	G <mark>M</mark> ENGR <mark>D</mark> EEE
XP_003309496_1_ADGVEDL:	LDI SSVDRLSFIR	QSSKVKFTSA	VKLSEGGPGS	G <mark>M</mark> ENGR DEEE
NP_001193492_1_ <mark>ADGVEDL</mark> :		QSSKVKFTSA	VKLSEGGPGS	G <mark>I</mark> ENGRDEEE
NP_780719_2_proADGVEDL		QSSKVKFTSA	VKLSEGGPGS	G M E N G R E E E E
Consistency ******	* * * * * * * * * * * * *	* * * * * * * * *	* * * * * * * * * *	* <mark>7</mark> * * * * 8 * * *
	1160 1	170 118	20 11 <b>9</b>	0 1200
NP_115893_1_proNFFKRLG		GGKSKNVVNL	GAIRQGMKRF	QFLLNCCEPG
XP_003309496_1_NFFKRLG		GGKSKNVVNL	GAIRQGMKRF	QFLLNCCEPG
NP_001193492_1_NFFKRLG		GGKSKNVVNL	GAIRQGMKRF	QFLLNCCEPG
NP_780719_2_proNFFKRLG	CHS FDDHL <mark>SP</mark> NQD	GGKSKNVVNL	GAIRQGMKRF	QFLLNCCEPG
Consistency * * * * * * *	* * *	* * * * * * * * * *	* * * * * * * * * *	*****
	1010			10
	1210 12			
NP_115893_1_proTIPDASI: XP_003309496_1_TIPDASI:		RAALFLECAR RAALFLECAR	FVHRCNRGNW FVHRCNRGNW	PEWMKGHHVN PEWMKGHHVN
NP_001193492_1_TIPDASI		RAALFLECAR	FVHRCNRGNW FVHRCNRGNW	PEWMKGHHVN
NP_780719_2_proTIPDASI		RAALFLECAR	FVHRCNRGNW	PEWMKGHHVN
Consistency		****	* * * * * * * * *	* * * * * * * * *
	1260 12	270	30 129	
NP_115893_1_pro <mark>ITKKGLS</mark>			YQWGDAIGVR	LNELCHGESE
XP_003309496_1_ITKKGLS	RGR SP <mark>I</mark> VGNKRNQ			
	the state of the s		YQWGDAIGVR	LNELCHGESE
NP_001193492_1_ <mark>ITKKGLS</mark>	RGR SP <mark>I</mark> VGNKRNQ	KLQW <mark>N</mark> AAKLF	YQWGDAIGVR	LNELCHGESE
NP_001193492_1_ <mark>ITKKGLS</mark> NP_780719_2_pro <mark>ITKKGLS</mark>	RGR SP <mark>I</mark> VGNKRNQ RGR SP <mark>T</mark> VGNKRNQ	KLQW <mark>N</mark> AAKLF KLQW <mark>S</mark> AAKLF	YQWGDAIGVR YQWGDAIGIR	LNELCHGESE LNELCHGESE
NP_001193492_1_ <mark>ITKKGLS</mark>	RGR SP <mark>I</mark> VGNKRNQ RGR SP <mark>I</mark> VGNKRNQ	KLQW <mark>N</mark> AAKLF	YQWGDAIGVR	LNELCHGESE
NP_001193492_1_ITKKGLS: NP_780719_2_proITKKGLS: Consistency ******	RGR SP <mark>I</mark> VGNKRNQ RGR SP <mark>T</mark> VGNKRNQ	KLQW <mark>N</mark> AAKLF KLQWSAAKLF **** <mark>7</mark> ****	YQWGDAIGVR YQWGDAIGIR ******	LNELCHGESE LNELCHGESE ******
NP_001193492_1_ITKKGLS: NP_780719_2_proITKKGLS: Consistency ******	RGR SP <mark>I</mark> VGNKRNQ RGR SP <mark>T</mark> VGNKRNQ *** **6*******	KLQWNAAKLF KLQWSAAKLF **** 7 *****	YQWGDAIGVR YQWGDAIGIR ******	LNELCHGESE LNELCHGESE ******
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: Consistency ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG:	RGR SP I VGNKRNQ RGR SP T VGNKRNQ *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 *****  320	YQWGDAIGVR YQWGDAIGIR *******9*	LNELCHGESE LNELCHGESE **********  0
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: Consistency ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG: NP_001193492_1_ SPANLLG	RGR SP I VGNKRNQ RGR SP T VGNKRNQ * * * * * 6 * * * * * * *  1310	KLQWNAAKLF KLQWSAAKLF ****7*****  320	YQWGDAIGVR YQWGDAIGIR *******9*  30	LNELCHGESE LNELCHGESE *********  0
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: ******  Consistency  ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG: NP_001193492_1_ SPANLLG: NP_780719_2_pro SPANLLG:	RGR SPIVGNKRNQ RGR SPTVGNKRNQ *** **6******  1310 13 LIY DEETKRLRK LIY DEETKRLRK IIY DEETKRLRK IIY DEETKRLRK IIY DEETKRLRK	KLQWNAAKLF KLQWSAAKLF ****7******  320	YQWGDAIG VR YQWGDAIG IR ********9*  30	LNELCHGESE LNELCHGESE *********  0
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: Consistency ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG: NP_001193492_1_ SPANLLG	RGR SPIVGNKRNQ RGR SPTVGNKRNQ *** **6******  1310 13 LIY DEETKRLRK LIY DEETKRLRK IIY DEETKRLRK IIY DEETKRLRK IIY DEETKRLRK	KLQWNAAKLF KLQWSAAKLF ****7*****  320	YQWGDAIGVR YQWGDAIGIR *******9*  30	LNELCHGESE LNELCHGESE *********  0
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: ******  Consistency ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG: NP_001193492_1_ SPANLLG: NP_780719_2_pro SPANLLG: *******	RGR SP I VGNKRNQ  *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF ****7******  320	YQWGDAIG VR YQWGDAIG IR *********9*  30	LNELCHGESE  **********  O
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP I VGNKRNQ  *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR *********9*  30	LNELCHGESE  **********  O
NP_001193492_1_ ITKKGLS: NP_780719_2_pro ITKKGLS: ******  Consistency  ******  NP_115893_1_pro SPANLLG: XP_003309496_1_ SPANLLG: NP_001193492_1_ SPANLLG: NP_780719_2_pro SPANLLG: *******	RGR SP I VGNKRNQ RGR SP T VGNKRNQ *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP I VGNKRNQ  *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR ********9*  30	LNELCHGESE  LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  LNELCHGESE  ***********  101350  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  ***********  101400  HRYERKISFA  HRYERKISFA
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** **6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  **********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** **6 ******  . 1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** **6 ******  . 1310	KLQWNAAKLF KLQWSAAKLF **** 7 ****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQWNAAKLF KLQWSAAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQWNAAKLF KLQWSAAKLF ****7******  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQWNAAKLF KLQWSAAKLF ****7******  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ***********  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQWNAAKLF KLQWSAAKLF *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ************  101350  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  **********  101400  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  STAN STAN STAN STAN STAN STAN STAN STAN
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQW N AAKLF  KLQW S AAKLF  **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ************  101350  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  **********  101400  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  STAN STAN STAN STAN STAN STAN STAN STAN
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ************  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ************  101350  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  PFALKMAACQ  **********  101400  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  HRYERKISFA  STAN STAN STAN STAN STAN STAN STAN STAN
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 ******  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  LNELCHGESE  **********************************
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  **********************************
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  LNELCHGESE  **********************************
NP_001193492_1_ ITKKGLS: NP_780719_2_pro Consistency	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE  ************  10
NP_001193492_1_ ITKKGLS: NP_780719_2_pro	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE
NP_001193492_1_ ITKKGLS: NP_780719_2_pro	RGR SP T VGNKRNQ  *** ** 6 *** ***  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE
NP_001193492_1_ ITKKGLS: NP_780719_2_pro	RGR SP T VGNKRNQ  * * * * * * * 6 * * * * * * * * *  1310	KLQW N AAKLF KLQW S AAKLF **** 7 *****  320	YQWGDAIG VR YQWGDAIG IR *********  30	LNELCHGESE

Consistency	* * * * * * * * * *	* * * * 8 * 7 * * <mark>5</mark>	* * * * * * * * *	* * * * * * * * * *	****** 9 * *
	154	£0. 157	70 156	20 150	1400
NP_115893_1_pro		RSCARLVRAI	KLLYGDSVDS	LRESSNISSV	ALRGKKQKEC
XP_003309496_1_		RSCARLVRAI	KLLYGDSVDS	LRESSNISSV	ALRGKKQKEC
NP_001193492_1_		RSCARLVRAI	KLLYGD <mark>T</mark> VDS	LRES <mark>NS</mark> IS <mark>N</mark> V	ALRGKKQKEC
NP_780719_2_pro		RSCARLVRAI	KLLYGDSVDS	LRESNHISNV	ALRGKKQKEC
Consistency	* * * * * * * * * *	* * * * * * * * *	* * * * * * <mark>7</mark> * * *	* * * * <mark>7                             </mark>	* * * * * * * * *
	161	10 162	20	30	40
NP_115893_1_pro		LKKRVSD <mark>A</mark> NL	EGKKDSGMLK	YIR <mark>L</mark> QVMSLS	PAPLSLLIKA
XP_003309496_1 NP_001193492_1		LKKRVSDANL LKKRVSDANL	EGKKDSGMLK EGKKDSGMLK	YIR <mark>L</mark> QVMSLS YIRLQVMSLS	PAPLSLLIKA PAPLSLLIKA
NP_780719_2_pro		LKKRVSD <mark>V</mark> NL	EGKKDSGMLK	YIRFQVMSLS	PAPLSLLIKA
Consistency	* * * * * * * * *	***** <mark>7</mark> **	*****	* * * <mark>7</mark> * * * * *	* * * * * * * * *
	166	50 167	70	30 169	90
NP_115893_1_pro		DIQPAAWELL	LSMDEHMAGA	AAAMFLLCAV	KVPEAVSDML
XP_003309496_1_		DIQPAAWELL	LSMDEHMAGA	AAAMFLLCAV	KVP <mark>E</mark> AVSDML
NP_001193492_1_		DIQPAAWELL	LSMDEHMAGA	AAAMFLLCAV AAAMFLLCAV	KVPEAVSDML
NP_780719_2_pro Consistency	*****	DIQPAAWELL *****	LSMDEHMAGA *****	********	KVPDAVSDML ***8*****
J 0J					
NP_115893_1_pro		10172 QRLNAVLKFH	20	BO174 PRMEEGAQQI	10
XP_003309496_1_		QRLNAVLKFH	TLWRFRYQVW	PRMEEGAQQI	FKIPPPSINF
NP_001193492_1_	T <mark>SEFHH</mark> PETV	QRLNAVLKFH	TLWRFRYQVW	PRMEEGAQQI	FKIPPPSINF
NP_780719_2_pro	MSEFHHAETV	QRLNAVLKFH	TLWRFRYQVW	PRMEEGAQQI *****	FKIPPPSINF
Consistency	0 * * * * * 0 * * *	*****	*****	*****	*****
	176	50 177	70	30	901800
NP_115893_1_pro		SVPMFDPPWV	PQCSGSVQDP	INEDQSKSFS	ARAVSRSHQR
XP_003309496_1 NP_001193492_1		SVPMFDPPWV SVPMFDPPWV	PQCSGSVQDP PQCSGSVQDP	INEDQSKSFS INEDQSKSFS	ARAVSRSHQR ARAVSRSHQR
NP 780719 2 pro		SVPMFDPPWV	PQCSGSVQDP	INEDQSKSFS	ARAVSRSHQR
Consistency	* * * * * * * * * *	*****	* * * * * * * * *	*****	*****
	181	10 184	20 183	RO 18/	40
	101		<b>4</b> ∪ 10.	<i>.</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 1050
NP_115893_1_pro		EEEKKRLGRE	ASLITAIPIT	QEACYEPTCT	PNSEPEEE <mark>V</mark> E
XP_003309496_1_	AEHILKNLQQ AEHILKNLQQ	EEEKKRLGRE EEEKKRLGRE	ASLITAIPIT ASLITAIPIT	QEACYEPTCT QEACYEPTCT	PNSEPEEE <mark>V</mark> E
XP_003309496_1_ NP_001193492_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE	ASLITAIPIT ASLITAIPIT ASLITAIPIT	QEACYEPTCT QEACYEPTCT QEACYEPTCT	PNSEPEEE <mark>V</mark> E PNSEPEEE <mark>V</mark> E
XP_003309496_1 NP_001193492_1 NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ	EEEKKRLGRE EEEKKRLGRE	ASLITAIPIT ASLITAIPIT	QEACYEPTCT QEACYEPTCT	PNSEPEEE <mark>V</mark> E
XP_003309496_1 NP_001193492_1	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ *****	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE *****	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ********	QEACYEPTCT QEACYEPTCT QEACYEPTCT QEACYEPTCT ********	PNSEPEEEVE PNSEPEEEEE PNSEPEEEE *******
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ *******	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE *******	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT QEACYEPTCT ********	PNSEPEEE VE PNSEPEEE EE PNSEPEEE 6 ********6*
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE *********	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE EE **********6*  90
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE *******	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT QEACYEPTCT ********	PNSEPEEE VE PNSEPEEE EE PNSEPEEE 6 ********6*
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ********* 186 EVTNLASRRL EVTNLASRRL EVTNLASRRL OVA-NLTSRRL	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE **********  50187 SVSPSCTSST SVSPSCTSST SVSPSCTSST SVSPSCTSST	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ************  80189 SVWSVRSAVS SVWSVRSAVS SVWSVRSAVS SVWSVRSAVS	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E **********6  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ *********** 180 EVTNLASRRL EVTNLASRRL EVTNLASRRL	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE *********  50187 SVSPSCTSST SVSPSCTSST SVSPSCTSST	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE 6 ********* 6  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ **********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE EE **********6  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ **********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE **********  60187 SVSPSCTSST SVSPSCTSST SVSPSCTSST SVSPSCTSST *********************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ************  80	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ************6  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ********** 186 EVTNLASRRL EVTNLASRRL EVTNLASRRL 675**7**** 191 TPNHHVPQPP	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE **********  60187 SVSPSCTSST SVSPSCTSST SVSPSCTSST SVSPSCTSST *********************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ************6  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ **********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE EE **********6*  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ***********6*  00
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003istency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT X**********  30	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_0013893_1_pro XP_003309496_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_003309496_1_ NP_003309496_1_ NP_001193492_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_0013893_1_pro XP_003309496_1_	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE VE PNSEPEEE EE *******************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT X***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE VE PNSEPEEE EE *******************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************
XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ AEHILKNLQQ ***********************************	EEEKKRLGRE EEEKKRLGRE EEEKKRLGRE ************************************	ASLITAIPIT ASLITAIPIT ASLITAIPIT ***********************************	QEACYEPTCT QEACYEPTCT QEACYEPTCT ***********************************	PNSEPEEE VE PNSEPEEE VE PNSEPEEE VE PNSEPEEE E ********************************

ND 001102402 1	EOCEWELL VIII	3 CMD CMEMT II	WILCONECDID	MOLDWIEDMO	FEALLKECLE
NP_001193492_1_ NP 780719 2 pro		ASMPGTKTLV ASMPGTKTLV	VHGQNECDIP VHGQNECDIP	TQLPVHEDTQ TQLPVHEDTQ	FEALLKECLE FEALLKECLE
<b>-</b>	* * * * * * * * * * *	*******	* * * * * * * * * * * * * * * * * * *	*********	****
Consistency					
	211	0 213	213	30 214	0
NP_115893_1_pro		HYFLMDKRWN	LIHYNKTYVR	DIYPFRRSVS	PQLNLVHMHP
XP_003309496_1		HYFLMDKRWN	LIHYNKTYVR	DIYPFRRSVS	PQLNLVHMHP
NP_001193492_1_		HYFLMDKRWN	LIHYNKTYVR	DIYPFRRSVS	PQLNLVHMHP
NP 780719 2 pro		HYFLMDKRWN	LIHYNKTYVR	DIYPFRRSVS	POLNLVHMHP
	*****	*****	*****	*****	*****
Consistency					
•	216	50	70 218	30	00
NP_115893_1_pro		VFTRKLEEVG	RVLFLISLTQ	KIPTAHKQSH	VSMLQEDLLR
XP_003309496_1_		VFTRKLEEVG	RVLFLISLTQ	KIPTAHKQSH	VSMLQEDLLR
 NP_001193492_1_		VFTRKLEEVG	RVLFLISLTQ	KIPTAHKQSH	VSMLQEDLLR
NP 780719 2 pro		VFTRKLEEVG	RVLFLISLTQ	KIPTAHKQSH	VSMLQEDLLR
Consistency	* * * * * * * * *	* * * * * * * * *	* * * * * * * * *	* * * * * * * * *	* * * * * * * * *
•					
•	221	0	20	30	10
NP_115893_1_pro	LPSFPRSAID	AEFSLFSDPQ	AGKELFGLDT	LQKSLWIQLL	EEMFLGMPSE
XP_003309496_1_	LPSFPRSAID	AEFSLFSDPQ	AGKELFGLDT	LQKSLWIQLL	EEMFLGMPSE
NP_001193492_1_	LPSFPRSAID	AEFSLFSDPQ	AGKELFGLDT	LQKSLWIQLL	EEMFLGMPSE
NP_780719_2_pro		AEFSLFSDPQ	AGKELFGLDT	LQKSLWIQLL	EEMFLGMPSE
Consistency	* * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * *
				_	
					00
NP_115893_1_pro		LNVFNGALIL	HPEDSALLRQ	YAATVIN <mark>T</mark> AV	HFNHLFSLSG
XP_003309496_1_		LNVFNGALIL	HPEDSALLRQ	YAATVIN <mark>T</mark> AV	HFNHLFSLSG
NP_001193492_1_		LNVFNGALIL	HPEDSALLRQ	YAATVIN <mark>S</mark> AV	HFNHLFSLSG
NP_780719_2_pro		LNVFNGALIL	HPEDSALLRQ	YAATVIN <mark>T</mark> AV	HFNHLFSLSG
Consistency	* * * * * * * * * *	* * * * * * * * * *	* * * * * * * * * *	**** <mark>7</mark> **	* * * * * * * * *
	221	0 22	222	20	10 2250
NP_115893_1_pro		VYSDYESNPQ	LR <mark>Q</mark> AIEFACH	QFYILHRKPF	10
XP_003309496_1_		VYSDYESNPQ	LRQAIEFACH	QFYILHRKPF	VLQLFASVAP VLQLFASVAP
NP_001193492_1_		VYSDYESNPQ	LRQAIEFACH	QFYILHRKPF	VLQLFASVAP
NP_780719_2_pro		VYSDYESNPQ	LRRAIEFACH	QFYILHRKPF	VLQLFASVAP
	* * * * * * * * * * *	******	** 7 * * * * * *	*******	********
Consistency			· ·		
	236	50 237	70	30 239	00
NP_115893_1_pro		GPSKGVSAQC	LFDLLQSLEG	ETTDILDILE	LVKAEKPLKS
<del>-</del>		0 2 0 11 0 1 0 11 0 0			
AP_UU33U9496_l_	LLEFPDAAN <mark>N</mark>	GPSKGVSAQC	LFDLLQSLEG	ETTDILDILE	LVKAEKPLKS
XP_003309496_1_ NP_001193492_1_	LLEFPDAAN <mark>N</mark>				
	LLEFPDAAN <mark>N</mark> LLEFPDAAN <mark>T</mark>	G <mark>P</mark> SKGVSAQC	LFDLLQSLEG	ETTDILDILE	LVKAEKPLKS
NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN <mark>N</mark> LLEFPDAAN <mark>T</mark>	G <mark>P</mark> SKGVSAQC GSSKGVSAQC	LFDLLQSLEG LFDLLQSLEG	ETTDILDILE ETTDILDILE	LVKAEKPLKS LVKAEKPLKS
NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN <mark>N</mark> LLEFPDAAN <mark>T</mark> LLEFPDAAN <mark>T</mark>	GPSKGVSAQC GSSKGVSAQC GSSKGVSAQC	LFDLLQSLEG LFDLLQSLEG LFDLLQSLEG	ETTDILDILE ETTDILDILE ETTDILDILE	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS
NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAANT LLEFPDAANT LLEFPDAANT ******	GPSKGVSAQC GSSKGVSAQC GSSKGVSAQC *5	LFDLLQSLEG LFDLLQSLEG LFDLLQSLEG ******	ETTDILDILE ETTDILDILE ETTDILDILE ******	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	LLEFPDAANN LLEFPDAANT LLEFPDAANT ******6	GPSKGVSAQC GSSKGVSAQC GSSKGVSAQC *5	LFDLLQSLEG LFDLLQSLEG LFDLLQSLEG ******	ETTDILDILE ETTDILDILE ETTDILDILE ******	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	LLEFPDAAN T LLEFPDAAN T *******6	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL	LFDLLQSLEG LFDLLQSLEG **********  20	ETTDILDILE ETTDILDILE ETTDILDILE **********  30	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	LLEFPDAAN N LLEFPDAAN T LLEFPDAAN T ******6241 LDFCYGNEDL LDFCYGNEDL	GPSKGVSAQC GSSKGVSAQC *5******  0242 TFSISEAIKL TFSISEAIKL TFSISEAIKL	LFDLLQSLEG LFDLLQSLEG *********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE	ETTDILDILE ETTDILDILE *********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T ******** 6	GPSKGVSAQC GSSKGVSAQC *5******  0242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL	LFDLLQSLEG LFDLLQSLEG *********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE	ETTDILDILE ETTDILDILE ETTDILDILE *********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN N LLEFPDAAN T LLEFPDAAN T ******6241 LDFCYGNEDL LDFCYGNEDL	GPSKGVSAQC GSSKGVSAQC *5******  0242 TFSISEAIKL TFSISEAIKL TFSISEAIKL	LFDLLQSLEG LFDLLQSLEG *********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE	ETTDILDILE ETTDILDILE *********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T ******** 6	GPSKGVSAQC GSSKGVSAQC *5******  0242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL *******	LFDLLQSLEG LFDLLQSLEG *********  20	ETTDILDILE ETTDILDILE *********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV ********	LVKAEKPLKS LVKAEKPLKS *********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T ********* 6	GPSKGVSAQC GSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG **********  20	ETTDILDILE ETTDILDILE **********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV ***********************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	LLEFPDAANT LLEFPDAANT ********	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL	LFDLLQSLEG LFDLLQSLEG **********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE ***********  70248	ETTDILDILE ETTDILDILE **********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV ***********  30249 ALLYSVEVLT	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  102450 LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ ***********
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	LLEFPDAANT LLEFPDAANT ********* 6	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL *********  TVPAAREEIA TVPAAREEIA	LFDLLQSLEG LFDLLQSLEG **********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE **********  70248 ATAALATSLQ ATAALATSLQ	ETTDILDILE ETTDILDILE ***********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV ***********  30249 ALLYSVEVLT ALLYSVEVLT	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  40
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	LLEFPDAANT LLEFPDAANT LLEFPDAANT ********* 6	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ***********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV AFRSLQMLMV ************  30249 ALLYSVEVLT ALLYSVEVLT ALLYSVEVLT	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T  *********	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL *********  TVPAAREEIA TVPAAREEIA TVPAAREEIA	LFDLLQSLEG LFDLLQSLEG ***********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE **********  70248 ATAALATSLQ ATAALATSLQ AMAALATSLQ ATAALATSLQ ATAALATSLQ	ETTDILDILE ETTDILDILE ***********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV A**********  30249 ALLYSVEVLT ALLYSVEVLT ALLYSVEVLT ALLYSVEVLT	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  102450 LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ **********  102500 RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAANT LLEFPDAANT LLEFPDAANT ********* 6	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ***********  30244 SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV SFRSLQMLMV AFRSLQMLMV ************  30249 ALLYSVEVLT ALLYSVEVLT ALLYSVEVLT	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAANT LLEFPDAANT  ********* 6	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL **********  TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA ********	LFDLLQSLEG LFDLLQSLEG ***********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE **********  70248 ATAALATSLQ ATAALATSLQ AMAALATSLQ ATAALATSLQ *6********	ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  102450 LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ ***********  2002500 RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR *********
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAANT LLEFPDAANT *********	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL **********  TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA ********	LFDLLQSLEG LFDLLQSLEG ***********  20243 CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE CVTVVAYAPE **********  70248 ATAALATSLQ ATAALATSLQ AMAALATSLQ ATAALATSLQ *6********	ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ********  102450 LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ **********  102500 RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T ********** 6	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL *********  TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA **********	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  102450 LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ LEALVPCYLQ ***********  102500 RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR RPMTAPQMSR ***********
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T  *********	GPSKGVSAQC GSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS **********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_	LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  **********	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL *********  O243 TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA **********  O253 ANHTMSSGVN ANHTMSSGVN	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  **********	GPSKGVSAQC GSSKGVSAQC *5*******  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL ********  TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA *********  O252 ANHTMSSGVN ANHTMSSGVN ANHTMSSGVN	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS *********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T **********	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS **********  10
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  ************	GPSKGVSAQC GSSKGVSAQC *5*******  O	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  ************	GPSKGVSAQC GSSKGVSAQC *5*******  O	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  ************	GPSKGVSAQC GSSKGVSAQC GSSKGVSAQC *5********  O242 TFSISEAIKL TFSISEAIKL TFSISEAIKL TFSISEAIKL *********  O242 TVPAAREEIA TVPAAREEIA TVPAAREEIA TVPAAREEIA ***********  O252 ANHTMSSGVN ANHTMSSGVN ANHTMSSGVN ANHTMSSGVN ANHTMSSGVN ***********	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  ***********	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC TSSKGVSAQC TFSISEAIKL TVPAAREEIA TVPAREEIA	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  ************	GPSKGVSAQC GSSKGVSAQC *5*******  0	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  ***********	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC TSSKGVSAQC TFSISEAIKL TVPAAREEIA TVPAREEIA	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  ***********************************	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC TSSKGVSAQC TFSISEAIKL TVPAAREEIA TVPAREEIA	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************
NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	LLEFPDAAN T LLEFPDAAN T LLEFPDAAN T  LLEFPDAAN T  ***********************************	GPSKGVSAQC GSSKGVSAQC CSSKGVSAQC TSSKGVSAQC TFSISEAIKL TVPAAREEIA TVPAREEIA	LFDLLQSLEG LFDLLQSLEG ************************************	ETTDILDILE ETTDILDILE ETTDILDILE ************************************	LVKAEKPLKS LVKAEKPLKS LVKAEKPLKS ************************************

NP_115893_1_pro	DVKSHMRLAE	IAHSLLKLAP	YDTQTMESRG	LRRYIMEMLP	ITDW <mark>T</mark> AEAVR
XP_003309496_1_		IAHSLLKLAP	YDTQTMESRG	LRRYIMEMLP	ITDW <mark>T</mark> AEAVR
 NP_001193492_1_		IAHSLLKLAP	YDTQTMESRG	LRRYIMEMLP	ITDWSAEAVR
NP_780719_2_pro		IAHSLLKLAP	YDTQTMESRG	LRRYIMEMLP	ITDWSAEAVR
	****	*****	*****	* * * * * * * * * *	* * * * <mark>7</mark> * * * * *
	266	$50\ldots 267$	70	30 269	00
NP_115893_1_pro		DRMFNKIHKM	PTLRRQVEWE	PASNLIEGVC	LTLQRQPIIS
XP_003309496_1_		DRMFNKIHKM	PTLRRQVEWE	PASNLIEGVC	LTLQRQPIIS
NP_001193492_1_		DRMFNKIHKM	PTLRRQVEWE	PASNLIEGVC	LTLQRQPIIS
NP_780719_2_pro		DRMFNKIHKM	PTLRRQVEWE	PASSLIEGVC	LTLQRQPIIS
<del>-</del>	* * * * * * * * *	*****	*****	* * * <mark>7</mark> * * * * *	*****
	271	0 272	20 273	30 274	10
NP_115893_1_pro		VCVNLVMGVV	GPSSVADGLP	LLHLSPYLSP	PLPFSTAVVR
XP_003309496_1_		VCVNLVMGVV	GPSSVADGLP	LLHLSPYLSP	PLPFSTAVVR
NP_001193492_1_		VCVNLVMGVV	GPSSVADGLP	LLHLSPYLSP	PLPFSTAVVR
NP_780719_2_pro		VCVNLVMGVV	GPSSVADGLP	LLHLSPYLSP	PLPFSTAVVR
	* * * * * * * * * *	*****	*****	*****	******
Consistency					
	276	50 277	70 278	270	00
NP_115893_1_pro		EDFPLSHVIS	PFTNQERREG	MLLNLLIPFV	LTVGSGSKDS
XP_003309496_1_		EDFPLSHVIS	PFINGERREG	MLLNLLIPFV	LTVGSGSKDS
NP_001193492_1_		EDFPLSHVIS	PFINGERREG	MLLNLLIPFV	LTVGSGSKDS
NP_780719_2_pro		EDFPLSHVIS	PFINQERREG	MLLNLLIPFV	LTVGSGSKDS
	* * * * * * * * * * * * * * * * * * *	******	********	* * * * * * * * * * * * * * * * * * *	******
Consistency					
	281	0 282	202	20 28/	10 2850
NP_115893_1_pro		LLQTVINVLL	PPRIISTSRS	KNFMLESSPA	HCSTPGDAGK
XP_003309496_1_		LLQTVINVLL	PPRIISTSRS	KNFMLESSPA	HCSTPGDAGK
				KNFMLESSPA	HCSTPGDAGK HCSTPGDASK
NP_001193492_1_1		LLQTVINVLL	PPRIISTSRS		
NP_780719_2_pro	* * * * * * * * * * * * * * * * * * *	LLQTVINVLL	PPRIISTSRS	KNFMLESSPA	HCSTPGDAGK ********7*
Consistency	****	*****	****	*****	*******/*
	20/	70 205	70 200	200	2000
•					00
NP_115893_1_pro		TSQAAYLALK	VILVCFERQL	GSQWYWLSLQ	VKEMALRKVG
XP_003309496_1_		TSQAAYLALK	VILVCFERQL	GSQWYWLSLQ	VKEMALRKVG
NP_001193492_1_	DLRKEGLAES	TSQAAYLALK	VILVCFERQL	GSQWYWLSLQ	VKEMALRKVG
	<mark>-</mark>				
NP_780719_2_pro		TSQAAYLALK	VILVCFERQL	GSQWYWLSLQ	VKEMALRKVG
_	DLR <mark>K</mark> EGLAES *** <mark>7</mark> *****				
Consistency	* * * <mark>7</mark> * * * * * *	TSQAAYLALK ******	VILVCFERQL ******	GSQWYWLSLQ ******	VKEMALRKVG ******
Consistency	* * * <mark>7</mark> * * * * * * 291	TSQAAYLALK *********	VILVCFERQL ************************************	GSQWYWLSLQ *********  30	VKEMALRKVG ********  10
Consistency NP_115893_1_pro	* * * <mark>7</mark> * * * * * * 291 GLALWDF LDF	TSQAAYLALK ********  10292  IVRTRIPIFV	VILVCFERQL ********  20293 LLRPFIQCKL	GSQWYWLSLQ ********  30294 LAQPAENHEE	VKEMALRKVG ********  40
Consistency  NP_115893_1_pro  XP_003309496_1_	* * * <mark>7</mark> * * * * * * 291 GLALWDFLDF GLALWDFLDF	TSQAAYLALK ********  10	VILVCFERQL ********  20	GSQWYWLSLQ ********  30	VKEMALRKVG ********  40
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_	* * * <mark>7</mark> * * * * * * * 291 GLALWDFLDF GLALWDFLDF GLALWDFLDF	TSQAAYLALK  ********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV	VILVCFERQL  *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL	GSQWYWLSLQ *********  30294  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE	VKEMALRKVG  ********  40
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_  NP_780719_2_pro	* * * <mark>7</mark> * * * * * * *	TSQAAYLALK  ********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV	VILVCFERQL  *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL	GSQWYWLSLQ *********  30294  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE	VKEMALRKVG ********  40
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_  NP_780719_2_pro	* * * <mark>7</mark> * * * * * * * 291 GLALWDFLDF GLALWDFLDF GLALWDFLDF	TSQAAYLALK  ********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV	VILVCFERQL  *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL	GSQWYWLSLQ *********  30294  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE	VKEMALRKVG  *********  40
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_  NP_780719_2_pro  Consistency	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK *********  10	VILVCFERQL *********  20293  LLRPFIQCKL LLRPFIQCKL LLRPFIQCKL LLRPFIQCKL LLRPFIQCKL *********	GSQWYWLSLQ **********  30294  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE  LAQPAENHEE  *********************************	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_  NP_780719_2_pro  Consistency	* * * <sup>7</sup> * * * * * * * * * * * * * * * * * * *	TSQAAYLALK *********  10	VILVCFERQL *********  20	GSQWYWLSLQ **********  30	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro  XP_003309496_1_  NP_001193492_1_  NP_780719_2_pro  Consistency  NP_115893_1_pro	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK *********  10	VILVCFERQL *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  ************  70298  SELKILKEAV	GSQWYWLSLQ **********  30	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  *********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  ***********  60297  CKSSLIAEFN  CKSSLIAEFN	VILVCFERQL  *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  **********  70298  SELKILKEAV  SELKILKEAV	GSQWYWLSLQ **********  30294  LAQPAENHEE LAQPAENHEE LAQPAENHEE ***********  30295  HSGSAYQGKT HSGSAYQGKT	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK *********  10	VILVCFERQL *********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  ************  70298  SELKILKEAV	GSQWYWLSLQ ***********  30	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  *********  10	VILVCFERQL  **********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  **********  70298  SELKILKEAV  SELKILKEAV  SELKILKEAV	GSQWYWLSLQ **********  30294  LAQPAENHEE LAQPAENHEE LAQPAENHEE ***********  30295  HSGSAYQGKT HSGSAYQGKT	VKEMALRKVG  *********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  *********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN	VILVCFERQL  ***********  20293  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  LLRPFIQCKL  ***********  70298  SELKILKEAV  SELKILKEAV  SELKILKEAV	GSQWYWLSLQ ***********  30	VKEMALRKVG  *********  40
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG  *********  40
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  **********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  **********  50297  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  ************	VILVCFERQL **********  20293  LLRPFIQCKL LLRPFIQCKL LLRPFIQCKL **********  70298  SELKILKEAV SELKILKEAV SELKILKEAV ***********	GSQWYWLSLQ **********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	* * * 7 * * * * * * * * * * * * * * * *	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * * 7 * * * * * * * * * * * * * * * *	TSQAAYLALK  **********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  **********  50297  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  ************	VILVCFERQL **********  20293  LLRPFIQCKL LLRPFIQCKL LLRPFIQCKL **********  70298  SELKILKEAV SELKILKEAV SELKILKEAV ***********	GSQWYWLSLQ **********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro	*** 7 *** ***	TSQAAYLALK  **********  10	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_	*** 7 *** ***	TSQAAYLALK  **********  10292  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  IVRTRIPIFV  **********  50297  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  CKSSLIAEFN  ************  10302  RSNTGTGTVW  RSNTGTGTVW	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG  **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	*** 7 *** ***	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ **********  30294  LAQPAENHEE LAQPAENHEE LAQPAENHEE LAQPAENHEE **********  30295  HSGSAYQGKT HSGSAYQGKT HSGSAYQGKT HSGSAYQGKT SGSAYQGKT **********  30304  SQDTLSRTDE SQDTLSRTDE SQDTLSRTDE	VKEMALRKVG  **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********  30	VKEMALRKVG  **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	*** 7 *** ***	TSQAAYLALK  **********************************	VILVCFERQL  ***********************************	GSQWYWLSLQ ***********  30	VKEMALRKVG  **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	* * * * 7 * * * * * * * * * * * * * * *	TSQAAYLALK  **********************************	VILVCFERQL  ***********************************	GSQWYWLSLQ ***********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	*** 7 *** ***	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********  30	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_0013309496_1_	*** 7 *****	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	*** 7 *****	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********  30	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro	*** 7 ******  C	TSQAAYLALK  **********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********  30	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  Consistency	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG **********  10
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  Consistency	*** 7 *** ***	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG ************************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_001193492_1_ NP_T80719_2_pro Consistency	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG  ***********************************
Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ **********  30	VKEMALRKVG ************************************
NP_115893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro Consistency  NP_15893_1_pro XP_003309496_1_ NP_001193492_1_ NP_780719_2_pro XP_003309496_1_ NP_780719_2_pro XP_003309496_1_ NP_780719_2_pro	*** 7 *** * * * * * * * * * * * * * * *	TSQAAYLALK ***********************************	VILVCFERQL ************************************	GSQWYWLSLQ ***********************************	VKEMALRKVG  ***********************************

· · · · · · · · 3	160	3180 3	1903200
NP_115893_1_proEPRNR <mark>QGARL</mark>	STTRRSIQPK TKP	S <mark>A</mark> DQKRS VTFIEAQPEP	AAAPTD <mark>AL</mark> PA
XP_003309496_1_ <mark>EPRNR</mark> QGARL	STTRRSIQPK TKP	S <mark>A</mark> DQKRS VTFIEAQPEP	AAAPTD <mark>AL</mark> PA
NP_001193492_1_ <mark>EPRNR</mark> HGARL	STTRRSIQPK TKP	S <mark>A</mark> DQKRS VTFIEAQPEP	AGAPTD <mark>T</mark> LLA
NP_780719_2_pro <mark>EPRNR</mark> HGARL	STTRRSIQPK TKP	S <mark>V</mark> DQKRS VTFIEAQPEP	
Consistency * * * * * <mark>5</mark> * * * *	*****	* <mark>7</mark> * * * * * * * * * * * * * * *	77**** <mark>575</mark> *
3	210	3230 3	240
NP_115893_1_pro <mark>TGQ<mark>L</mark>QGCSPA</mark>	. <mark>P</mark> SRKPE <mark>AM</mark> DE PVL'	TSSPAI <mark>V V</mark> ADLHS <mark>V</mark> SPK	. Q <mark>se</mark> nf <mark>pteeg</mark>
XP_003309496_1_ <mark>TGQ<mark>L</mark>QGCSPA</mark>	. <mark>P</mark> SRKPE <mark>AM</mark> DE PVL'	TSSPAI <mark>V V</mark> ADLHS <mark>V</mark> SPK	
NP_001193492_1_ <mark>TGQ</mark> P <mark>QGCSPA</mark>	. <mark>P</mark> SRKPE <mark>GM</mark> DK PVL'	TSSPAI <mark>V V</mark> ADLHS <mark>L</mark> SPK	. QGE <mark>NF</mark> LAEEG
NP_780719_2_pro <mark>TGQ<mark>PQ</mark>SCSPG</mark>	R <mark>arkpe</mark> gtek PVL'	TSSPAI <mark>I IADLHS</mark> LSPK	. Q <mark>se</mark> pl <mark>la</mark> eeg
Consistency * * * 4 * 7 * * * 7	68**** <mark>66</mark> 87 ***	****** <mark>9                               </mark>	* <mark>7 * <mark>5 7 </mark>4 6 * * *</mark>
		3280 3	
		PDDFTGL ETS <mark>S</mark> LLQHGD	
	ATAH <mark>SPLS</mark> AQ LSDI		TVLHISEENG
NP_115893_1_proEKEEDTEAQG XP_003309496_1_EKEEDTEAQG NP_001193492_1_ERKEDTEVQG	ATAH <mark>SPLSA</mark> Q LSD: ATAHSPLSTQ LSD: ATAH <mark>SPLSTQ</mark> LSD:	PDDFTGL ETS <mark>S</mark> LLQHGD PDDFTGL ETSSLLQHGD PDDFTGL ETS <mark>I</mark> LLQHGD	TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro	ATAH <mark>S</mark> PLS <mark>A</mark> Q LSD: ATAHSPLSTQ LSD: ATAH <mark>SPLSTQ LSD: ATAHC</mark> PLSTQ LSD:	PDDFTGL ETS <mark>SLLQHG</mark> PDDFTGL ETSSLLQHG PDDFTGL ETS <mark>ILLQHG</mark> PDDFTGL ETS <mark>S</mark> LLQHG	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_proEKEEDTEAQG XP_003309496_1_EKEEDTEAQG NP_001193492_1_ERKEDTEVQG	ATAH <mark>S</mark> PLS <mark>A</mark> Q LSD: ATAHSPLSTQ LSD: ATAH <mark>SPLSTQ LSD: ATAHC</mark> PLSTQ LSD:	PDDFTGL ETS <mark>S</mark> LLQHGD PDDFTGL ETSSLLQHGD PDDFTGL ETS <mark>I</mark> LLQHGD	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro	ATAHSPLSAQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHCPLSTQ LSD: ****6***7* ***	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE ******	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro E KEED TEAQG  XP_003309496_1_EKEED TEAQG  NP_001193492_1_ERKED TEVQG  NP_780719_2_pro EKKEDEE I QG  Consistency *87 ** 6 * 6 * **	ATAHSPLSAQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ****6***7* ****  310	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE ****** ***6	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro	ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHCPLSTQ LSD: ****6***7* ****  310	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE ******	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro E K E E D T E A Q G XP_003309496_1_ E K E E D T E A Q G NP_001193492_1_ E R K E D T E V Q G NP_780719_2_pro E K K E D E E I Q G Consistency * 8 7 * * 6 * 6 * *	ATAHSPLSAQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHCPLSTQ LSD: ****6***7* ****  310	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE ****** *** 6 ******* LUESHV	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro E K E E D T E A Q G XP_003309496_1_ E K E E D T E A Q G NP_001193492_1_ E R K E D T E V Q G NP_780719_2_pro E K K E D E E I Q G Consistency *87**6*6**	ATAHSPLSAQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHCPLSTQ LSD: ****6***7* ****  310	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSILLQHGE PDDFTGL ETSSLLQHGE ******  ******  LDESHV LDESHV	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG
NP_115893_1_pro E K E E D T E A Q G XP_003309496_1_ E K E E D T E A Q G NP_001193492_1_ E R K E D T E V Q G NP_780719_2_pro E K K E D E E I Q G Consistency * 8 7 * * 6 * 6 * *	ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHSPLSTQ LSD: ATAHCPLSTQ LSD: ****6***7******  310	PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE PDDFTGL ETSSLLQHGE ****** *** 6 ******* LUESHV	TVLHISEENG TVLHISEENG TVLHISEENG TVLHISEENG