

gi	148727286	ref	NP_006812.3	MSNKLLSPHPHSVVLRS	EFKMASPPAVLRASRLYQWSLKS	SAOFLGSPQLRQVGGQIIRV	PARMAATLILEPAGRC	CCWDEPVR	I	AVRGLAPE	OPVTLRASLRDEK	GALFQAHARY	RADTLG	ELDLERAPALGGS	FAGLEPMGLLWALEPEK	150									
gi	114653842	ref	XP_001152283.1	MSNKLLSPHPHSVVLRS	EFKMASPPAVLRASRLYQWSLKS	SAOFLGSPQLRQVGGQIIRV	PARMAATLILEPAGRC	CCWDEPVR	I	AVRGLAPE	OPVTLRASLRDEK	GALFQAHARY	RADTLG	ELDLERAPALGGS	FAGLEPMGLLWALEPEK	150									
gi	156120525	ref	NP_001095408.1		MVASSQALLRHF	GFCRWGPT	PVVL	LAGSLKLR	TGNP	VSWT	TVRLV	TVLLEP	AGRCR	WDEPVR	I	AVRGLAPG	OPVTLRASLRDEK	GALFRAHARY	CADAAGLLDLERAPALGGS	FTGLEPMGLFWAMEPEK	150				
gi	119902873	ref	XP_001253040.1								MTVT	VMLEP	AGRCR	WDERVH	ITV	SGLAPR	OPVTLRS	SLRDEK	GALFRAHARY	CADAAGLLDLERAPALGGS	FAGLEPMGLFWALEPEK	150			
gi	73964277	ref	XP_547892.2		MVASAGAILRAS	GLRRWG		FLPRT	PKLWAG	ARGSAT	VSLEP	PAGG	CAWDEPVR	I	SVRGLAPG	OPVTLRASLRDEK	GALFRAHARY	RADDRGLLDLARAPALGGS	FVGLPEMGLLWALEPEK	150					
gi	40538846	ref	NP_598949.2		MVASSF	FAVLRASRLCQ	DWKS	WARL	FVPP	PLSTGGRT	TWA	--RTNATL	SV	PEGR	SCWDEPLS	I	AVRGLAPE	OPVTLRS	ALRDEK	GALFRAHARY	RADAGGELDLARAPALGGS	FTGLEPMGLLWAMEPEK	150		
gi	48675862	ref	NP_620262.2		MVAS	SFAVLRASRLCQ	DWKS	TK	LSG	PP	PLSTGGRT	TFA	--RTNATL	SV	PEGR	SCWDEPLS	I	AVRGLAPE	OPVTLRS	ALRDEK	GALFRAHARY	RADAGGELDLARAPALGGS	FTGLEPMGLI	WAMEPEK	150



gi	148727286	ref	NP_006812.3	PLVRLVKRDVR	PLAVELE	VLDGHD	PPGRLLCQ	TRHERY	F	LP	GVRR	EPVVR	VRVGR	GLFL	PP	EP	PG	PGI	VD	MF	GTGG	LL	EY	RASLL	AGKGF	AVMAL	AYNY	EDLP	K	IME	IL	H	LEV	FE	AM	N	Y	LL	SH	PE	V	K	G	P	V	G	L	L	G	I	S	K	G	G	E	L	C	300															
gi	114653842	ref	XP_001152283.1	PLVRLVKRDVR	PLAVELE	VLDGHD	PPGRLLCQ	TRHERY	F	LP	GVRR	EPVVR	VRVGR	GLFL	PP	EP	PG	PGI	VD	MF	GTGG	LL	EY	RASLL	AGKGF	AVMAL	AYNY	EDLP	K	IME	IL	H	LEV	FE	AM	N	Y	LL	SH	PE	V	K	G	P	V	G	L	L	G	I	S	K	G	G	E	L	C	300															
gi	156120525	ref	NP_001095408.1	PFLRLVKRDVQ	TPFAVELE	VLDNHE	FRGRL	LGR	V	HERD	FLA	PGVRR	EPVVR	VRVGR	VRAL	FL	PP	EP	PG	PGI	VD	IL	G	AG	GL	L	EY	RASLL	AGKGF	AVMAL	AYNY	EDLP	K	GLE	N	L	H	LEV	FE	AV	N	Y	LL	NH	P	V	K	G	P	V	G	L	L	G	I	S	K	G	G	E	L	C	300										
gi	119902873	ref	XP_001253040.1	PLLRVLVKRDVQ	TPVVELE	VVDGHE	PAQRLL	GRA	V	HERD	FLA	PGVRR	EPVVR	VRVGR	VRAL	FL	PP	EP	PA	FP	PGI	VD	IS	A	AG	GF	L	EY	RASLL	AGKGF	AVL	AL	AYNY	EDLP	K	S	L	R	H	V	LEV	FE	AV	N	Y	LL	NH	P	V	K	G	P	V	G	L	L	G	I	S	K	G	G	E	L	C	300							
gi	73964277	ref	XP_547892.2	PLVRLVKRDVQ	TPFAVELE	VLDGHE	PDAGRLL	GRAL	H	ARH	FLR	PGVRR	EPVVR	VRVGR	VRAL	FL	PP	EP	PG	PGI	VD	I	V	G	S	GL	L	EY	RASLL	AGKGF	AVMAL	AYNY	EDLP	K	G	L	E	IL	H	LEV	FE	AV	N	Y	LL	DH	P	V	K	G	L	G	N	S	K	G	G	E	L	C	300												
gi	40538846	ref	NP_598949.2	PLWRLIKRDVQ	TPVVELE	VLDGHE	PDGGR	LAR	A	V	HERH	FLA	PGVRR	EPVVR	VRVGR	VRAL	FL	PP	EP	PG	PGI	VD	I	D	L	F	G	V	G	GL	L	EY	RASLL	AGKGF	AVMAL	AYNY	DDLP	K	S	I	E	M	H	M	EY	FE	AV	N	Y	L	R	S	H	P	E	V	K	G	P	I	G	L	L	G	I	S	K	G	G	E	L	C	300
gi	48675862	ref	NP_620262.2	PLWRLVKRDVQ	TPVVELE	VLDGHE	PDGGR	LAR	A	V	HERH	FLA	PGVRR	EPVVR	VRVGR	VRAL	FL	PP	EP	PG	PGI	VD	I	D	L	F	G	V	G	GL	L	EY	RASLL	AGKGF	AVMAL	AYNY	DDLP	K	S	I	E	M	H	M	EY	FE	AV	N	Y	L	R	S	H	P	E	V	K	G	P	I	G	L	L	G	I	S	K	G	G	E	L	C	300



gi	148727286	ref	NP_006812.3	LSMASFLKGI	IAAVVING	S	VAN	VGG	IL	HY	KGE	IL	PP	V	G	N	R	IK	V	K	D	G	Y	A	D	I	V	D	V	L	N	S	P	L	E	G	P	D	K	S	F	I	P	V	E	R	A	E	S	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	N	E	A	C	K	R	L	Q	A	H	G	R	R	K	P	Q	I	I	C	Y	P	E	T	G	H	Y	I	E	P	P	F	L	C	R	A	S	L	H	A	L	V	G	S	P	I	I	W	G	G	E	F	450			
gi	114653842	ref	XP_001152283.1	LSMASFLKGI	IAAVVING	S	VAN	VGG	IL	HY	KGE	IL	PP	V	G	N	R	IK	V	K	D	G	Y	A	D	I	V	D	V	L	N	S	P	L	E	G	P	D	K	S	F	I	P	V	E	R	A	E	S	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	N	E	A	C	K	R	L	Q	A	H	G	R	R	K	P	Q	I	I	C	Y	P	E	T	G	H	Y	I	E	P	P	F	L	C	R	A	S	L	H	A	L	V	G	S	P	I	I	W	G	G	E	F	450			
gi	156120525	ref	NP_001095408.1	LSMASFLKGI	IAAVVING	S	VAY	VGG	N	L	HY	KGE	I	PP	V	G	N	R	IK	M	K	D	G	F	V	D	I	V	D	V	L	N	S	P	L	E	G	P	D	K	S	F	I	P	V	E	R	A	E	S	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	N	E	A	C	K	R	L	Q	A	H	G	K	A	K	P	Q	V	I	C	Y	P	E	T	G	H	Y	I	E	P	P	F	L	C	R	A	S	L	H	T	I	V	G	A	P	I	W	G	G	E	F	450			
gi	119902873	ref	XP_001253040.1	LSMASFLKGI	IAAVVING	S	VHN	VWG	IL	HY	KGE	IL	PP	V	G	N	R	IK	M	K	D	G	F	V	D	I	V	D	V	L	N	S	P	L	E	G	P	D	K	S	F	I	P	V	E	R	A	E	S	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	N	E	A	C	K	R	L	Q	A	H	G	K	A	K	P	Q	V	I	C	Y	P	E	T	G	H	Y	I	E	P	P	F	L	C	R	A	S	L	H	T	I	V	G	G	E	F	450									
gi	73964277	ref	XP_547892.2	LSMASFLKGI	IAAVVING	S	VAN	VGG	IL	HY	KGE	IL	PP	V	G	N	R	IK	M	K	D	G	F	V	D	I	V	D	V	L	N	S	P	L	E	G	P	D	K	S	F	I	P	V	E	R	A	E	S	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	N	E	A	C	K	R	L	Q	A	H	G	R	E	K	P	Q	I	I	C	Y	P	M	A	G	H	Y	I	E	P	P	F	L	C	R	A	S	L	H	T	V	G	G	E	F	450										
gi	40538846	ref	NP_598949.2	LAMASFLKGI	IAAVVING	S	VAA	VGN	I	S	Y	K	D	E	T	I	P	P	S	L	L	N	O	V	K	M	K	D	G	L	L	D	V	V	E	A	L	Q	S	P	L	--	V	D	K	S	F	I	P	V	E	R	S	D	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	D	E	I	S	K	R	L	Q	A	H	G	K	E	K	P	Q	I	I	C	Y	P	A	A	G	H	Y	I	E	P	P	F	L	C	S	A	G	M	L	L	V	G	A	N	I	T	G	G	E	F	450
gi	48675862	ref	NP_620262.2	LAMASFLKGI	IAAVVING	S	VAA	VGN	I	S	Y	K	D	E	T	I	P	P	S	L	L	N	O	V	K	M	K	D	G	L	L	D	V	V	E	A	L	Q	S	P	L	--	V	D	K	S	F	I	P	V	E	R	S	D	T	F	L	F	L	V	G	D	D	H	N	W	K	S	E	F	Y	A	D	E	I	S	K	R	L	Q	A	H	G	K	E	K	P	Q	I	I	C	Y	P	E	A	G	H	Y	I	E	P	P	F	L	C	S	A	G	M	L	L	V	G	A	N	I	T	G	G	E	F	450



gi	148727286	ref	NP_006812.3	RAHAMAQ	VD	AWK	Q	L	O	T	F	F	H	K	H	L	G	G	H	E	G	T	I	P	S	K	V	483
gi	114653842	ref	XP_001152283.1	RAHAMAQ	VD	AWK	Q	L	O	T	F	F	H	K	H	L	G	G	H	E	G	T	I	P	A	K	L	483
gi	156120525	ref	NP_001095408.1	RAHARAQ	VD	AWQ	Q	L	O	T	F	F	H	K	H	L	G	G	E	K	G	R	I	P	A	K	L	483
gi	119902873	ref	XP_001253040.1	MAHARAQ	VD	AWQ	Q	L	O	T	F	F	H	K	H	L	G	G	E	K	G	I	P	A	K	L	483	
gi	73964277	ref	XP_547892.2	RAHAMAQ	MD	AWK	Q	L	O	T	F	F	H	K	H	L	G	G	E	K	-----	483						
gi	40538846	ref	NP_598949.2	RAHAVAQ	VD	AWQ	Q	L	O	T	F	F	H	K	Q	L	S	K	S	-----	483							
gi	48675862	ref	NP_620262.2	KPHSVAQ	LD	AWQ	Q	L	O	T	F	F	H	Q	L	S	K	S	-----	483								

