

gi	221316639	ref	NP_000132.3	LP---APGREKE-----ITASPDYLEIAIYICIGVFLIACMVVIVILCRMKNITKKPDFSSQPAVHKLTKRIPLRROVTVSAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	494
gi	114633086	ref	XP_001157227.1	LP---APGREKE-----ITASPDYLEIAIYICIGVFLIACMVVIVILCRMKNITKKPDFSSQPAVHKLTKRIPLRROV--SAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	497
gi	116089349	ref	NP_034337.2	LP---APVREKE-----ITASPDYLEIAIYICIGVFLIACMVVIVIFCRMKTTTKKPDFSSQPAVHKLTKRIPLRROVTVSAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	513
gi	109459422	ref	XP_341941.3	LP---APVREKE-----ITASPDYLEIAIYICIGVFLIACMVVIVIFCRMKTTTKKPDFSSQPAVHKLTKRIPLRROV--SAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	492
gi	194678833	ref	XP_001789758.1	LP---APVREKE-----IPASPDYLEIAIYICIGVFFIACMVVIVILCRMKNITKKPDFSSQPAVHKLTKRIPLRROVTVSAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	494
gi	50979178	ref	NP_001003336.1	LPKQAPVREKE-----ITASPDYLEIAIYICIGVFLIACMVVIVILCRMKTTTKKPDFSSQPAVHKLTKRIPLRROVTVSAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	380
gi	45384352	ref	NP_990650.1	LP---APEKEKE-----FPTSPDYLEIAIYICIGVFLIACMVVIVILCRMKTTTKKPDFSSQPAVHKLTKRIPLRROVTVSAESSSSMM-SNTPLVRIITRLSSTADTPM-----LAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQ	496
gi	30231254	ref	NP_840088.1	HP---AEINPIE-----IDYPPDYVEIAIYICIGVFLIACMVVIVVCRMKTTAKKPDFSSQPAVHKLTKRIPLRROV--SSDSSSSMS-SPPLVRIITRLSSTADTPM-----LPEYDLPEPRWEFPRDKLTLGKPLGEGCFGQ	488
gi	62472172	ref	NP_001014583.1	VS--PLPPEI---YALLHAHPLGFLAAITIVALFLLGSAFTIFMLRRLR--REKLLKRIETVHOWTKKVIYR-PGEGEGSCSSGDLQMPVIRIEKQRTIVTTCGGTDPAQGFNEYEFPLDSNWEIPRQLLGLSILGEGAFGR	725
gi	24647821	ref	NP_732287.1	VR--SLHVLKAGVAGSLSHSTSEVYIFVFGFLIFIFM--LDFVYAIRKMK--HEKVLQRLETVHOWTKKVIYR-PGEGEGSCSSGDLQMPVIRIEKQRTIVTTCGGTDPAQGFNEYEFPLDSNWEIPRSHLVLGATLGEAFGR	429
gi	158291261	ref	XP_562866.3	LD--ELPDDTP--NAHVPVTHSTLIMGMTIFLCACTVLAIVIVIVCKLK--REKMKRAMEHVNQVTKKVIYRQPVVSESIKPGMSALQMPVIRIEKQRTIVTTCGGTDPAQGFNEYEFPLDSNWEIPRSHLVLGATLGEAFGR	366



gi	221316639	ref	NP_000132.3	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	637
gi	114633086	ref	XP_001157227.1	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	640
gi	116089349	ref	NP_034337.2	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	656
gi	109459422	ref	XP_341941.3	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	635
gi	194678833	ref	XP_001789758.1	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	637
gi	50979178	ref	NP_001003336.1	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	523
gi	45384352	ref	NP_990650.1	VVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIN-----RVPEEQMTFKDLVSCITYQLARGMEYLASOKCIHRDLAARNVLVTEN	639
gi	30231254	ref	NP_840088.1	VVMAEALGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTODGPLYVIVEYASKGNLREYLARRPPGMEYSYDIA-----RVSDPELTFKDLVSCITYQVARGMEYLASOKCIHRDLAARNVLVTES	631
gi	62472172	ref	NP_001014583.1	VVMAEAGLPRSPQLAETIVAVKMKVEEHTDDMASLVEVEMVKMIGKHKNIINLLGCSGGGLPWVIVEYAPHGNLKDPLFKYKRRPAPRRSSDGLDDKPLISTOHLGKELTKFAFQIARGMEYLASRRCIHRDLAARNVLVSD	875
gi	24647821	ref	NP_732287.1	VVMAEAVN-----NAIVAVKMKVEEHTDDMASLVEVEMVKMIGKHKNIINLLGCSGGGLPWVIVEYAPHGNLKDPLFKYKRRPAPRRSSDGLDDKPLISTOHLGKELTKFAFQIARGMEYLASRRCIHRDLAARNVLVSD	567
gi	158291261	ref	XP_562866.3	VVMAEAGLGVKG--HPSIVVAVKMLKEGHTDADVDLCEVEMVKMIGKHKNIINLLGCSGGGLPWVIVEYAPHGNLKDPLFKYKRRPAPRRSSDGLDDKPLISTOHLGKELTKFAFQIARGMEYLASRRCIHRDLAARNVLVSD	505



gi	221316639	ref	NP_000132.3	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	783
gi	114633086	ref	XP_001157227.1	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	786
gi	116089349	ref	NP_034337.2	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	802
gi	109459422	ref	XP_341941.3	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	781
gi	194678833	ref	XP_001789758.1	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	783
gi	50979178	ref	NP_001003336.1	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	669
gi	45384352	ref	NP_990650.1	NVMKIADFGLARDINNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	785
gi	30231254	ref	NP_840088.1	NVMKIADFGLARDVHNDIYKKTINGRPLVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPNPGIP-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLCAVPEQOYSPSE	777
gi	62472172	ref	NP_001014583.1	YVMKIADFGLARDIQDTEYRKNINGRPLIKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	1025
gi	24647821	ref	NP_732287.1	YVLKIADFGLARDIQDTEYRKNINGRPLIKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	712
gi	158291261	ref	XP_562866.3	YVMKIADFGLARDIHDQYRKNITGKLPKRWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGPV-VEELFKLLKEGHRMDKPAKCNTELYMMRDCWHAVPSQRPFFKQLVEDLDRILTLTIT---NEEYLDLSQPLEQOYSPSY	652



gi	221316639	ref	NP_000132.3	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	821
gi	114633086	ref	XP_001157227.1	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	824
gi	116089349	ref	NP_034337.2	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	840
gi	109459422	ref	XP_341941.3	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	819
gi	194678833	ref	XP_001789758.1	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	821
gi	50979178	ref	NP_001003336.1	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	707
gi	45384352	ref	NP_990650.1	PDTRSSCSSGDDSVFSPDMPYEPCLPQYPHINGSVKTI--	823
gi	30231254	ref	NP_840088.1	PDTRSSCSSGDDSVFSDPLADEPCLPKQHINGGIKI--	815
gi	62472172	ref	NP_001014583.1	GDEDDGSDHETF---RETSFLRYQTYKEN-----	1052
gi	24647821	ref	NP_732287.1	SDEEDD-----ETDNLQKWCNY--	729
gi	158291261	ref	XP_562866.3	DDSDDDVDEEDDEDQDQAGTEHERVHMVFNFRSYNNDCTV	692

