

gi | 86792774 | ref | NP\_570629.2 | MASLYQRFYTGKINTSRSPAPPPEASHLLGGQPEEDGGAGAKPLGPRAQAAAPRERGGGGGAGGRPRFOYQARSDGDEDELVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPAEDNSLSOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 77681485 | ref | NP\_001029333.1 | -----MTTAKEPSASG-----KSVQQDEQLVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPAEDNSLSOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 24429568 | ref | NP\_034205.1 | -----MN--QTAGANNVRCPPGK-----HKELVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPAEDTSLSOOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 12408298 | ref | NP\_074041.1 | MASLYQRFYTGKINTSRSPAPPPEASHLLGGQPEEDAGS--KPLGPAQAQAVAPRERGG--AGGRPRFOYQARSDGDEDELVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPAEDTSLSOOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 27806657 | ref | NP\_776465.1 | MASLYQRFYTGKINTSRSPAPPPEASHLLGGQPEEDGAG--PKPLGAQAQAAAPRERGGGGG--AGGRPRFOYQARSDGDEDELVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPAEDNSLSOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 118085575 | ref | XP\_418545.2 | MASLYQRFSGKINTSRSPAPPPEASHLLGAQCEEDGSAGTTPRPLQOEGSRPRFYQ-----PRSDCEDELVGSNPPORNWKGIAIALLVILVICSLIVTSVILLTPVEDNSLSOKKKVIVEDLFSDFKIHDPPEAKW 150  
gi | 169403984 | ref | NP\_001108594.1 | MASLYQRFSGKINTSRSPAPPPEASHLLGGQPEEENKSGKSPHPHSCRPLPRHGGGGGAGSGGRGLQKQARMADNREGELVGSAPORNWKGIAIALLVILVICSLIVTSVILLTPVEDTSLASKKVIIVEDLFSDFKIHDPPEAKW 150



gi | 86792774 | ref | NP\_570629.2 | ISDTEFIYREQKGVIRLWVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 77681485 | ref | NP\_001029333.1 | ISDTEFIYREQKGVIRLWVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 24429568 | ref | NP\_034205.1 | ISNKEFIYRERKGSVILRNVEVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 12408298 | ref | NP\_074041.1 | ISDKFEIYRERKGSVILRNVEVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 27806657 | ref | NP\_776465.1 | ISDTEFIYREQKGVIRLWVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 118085575 | ref | XP\_418545.2 | ISDTEFIYRNQNGTVILRNVEVETNISTVLLIEGKKIESLRAIRYEISPDREYALFSYNVEPIYQHSYTGYYVLSKIPHGDPQSLDPPPEVSNAKLQYAGWGPKGQQLIFIFENNIIYCAHVGKQAIRVVSIGKEGVINGLSDWLYEBEILKI 300  
gi | 169403984 | ref | NP\_001108594.1 | ISDTELLVHHDGQNVKMLNIGTNYNKTLENKTFETVYRPTQYQVSPDLKVVLLAVNIMPVYQSFMAIYIICSLDSEPERVELTPNEVQSTALQYAGWGPKGQQLIFIFENNIIYKQVNSPSIRLVSTGSLGVIFNGLADWLYEBEILKI 300



gi | 86792774 | ref | NP\_570629.2 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 77681485 | ref | NP\_001029333.1 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 24429568 | ref | NP\_034205.1 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 12408298 | ref | NP\_074041.1 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 27806657 | ref | NP\_776465.1 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 118085575 | ref | XP\_418545.2 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450  
gi | 169403984 | ref | NP\_001108594.1 | HIAHWSPDGLRLAYAINDSRVIMELPTYIGSYLPVVKPYHPKAGSENPISLHVIGLNGPTHLEMMPPDDPRMR--EYIIMVKWATSTKVAVWLNRAQNVISILLCDAITGVCIKKHEDESEAWLHRONEEVPFSKDGKRFKFFV 450



gi | 86792774 | ref | NP\_570629.2 | RAIPGGGRGKFYHITVSSSQPNSSNDNIQSITSGDWDVTKILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--KRMFDLEANEVQKAIYDROMPKIYR 600  
gi | 77681485 | ref | NP\_001029333.1 | RAIPGGGRGKFYHITVSSSQPNSSNDNIQSITSGDWDVTKILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--KRMFDLEANEVQKAIYDROMPKIYR 600  
gi | 24429568 | ref | NP\_034205.1 | RAIPGGGRGKFYHITVSSSQPNSSNDNIQSITSGDWDVTKILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--KRMFDLEANEVQKAIYDROMPKIYR 600  
gi | 12408298 | ref | NP\_074041.1 | RAIPGGGRGKFYHITVSSSQPNSSNDNIQSITSGDWDVTKILAYDEKGNKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--KRMFDLEANEVQKAIYDROMPKIYR 600  
gi | 27806657 | ref | NP\_776465.1 | RAIPGGGQKGFYHITVSSSQPNSSNDNIQSITSGDWDVTKILAYDEKRSKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--KRMFDLEANEVQKAIYDROMPKIYR 600  
gi | 118085575 | ref | XP\_418545.2 | RANPGGGRGKFYHIVAMSSQPNSSNDNIQSITSGDWDVTKILAYNEKRRKIYFLSTEDLPRRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--AKKIFLEVNEVQKAIYDROMPKIYR 600  
gi | 169403984 | ref | NP\_001108594.1 | RAVPGGGRGKFFHISMSTSQPNSSNDNIQSITSGDWDVTKILAYNEKRRKIYFLSTEDGASRRQLYSANTVGNFNRQCLSCDLVENCITYFSASFHSMDFFLLKCEGPGVPMVTVHNTTD--CGYVSGSFPDANVFFLCKGPGVPHSAVSTRYGSYKILVNEVQKAIYDROMPKIYR 600



gi | 86792774 | ref | NP\_570629.2 | DIEIDDVNLPMOILKPAITFDTHYPLLLVVDGTPGQSVAEKFEVSWETVMVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQGFTCGSALSPTIDF 750  
gi | 77681485 | ref | NP\_001029333.1 | DIEIDDVNLPMOILKPAITFDTHYPLLLVVDGTPGQSVAEKFEVSWETVMVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQGFTCGSALSPTIDF 750  
gi | 24429568 | ref | NP\_034205.1 | KIEVEDVSLPMOILKPAITFDTHYPLLLVVDGTPGQSVAERFEVWEVTVLVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQGFTCGSALSPTIDF 750  
gi | 12408298 | ref | NP\_074041.1 | KIEVEDVSLPMOILKPAITFDTHYPLLLVVDGTPGQSVAERFEVWEVTVLVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQGFTCGSALSPTIDF 750  
gi | 27806657 | ref | NP\_776465.1 | KIEIDDVNLPMOILKPAITFDTHYPLLLVVDGTPGQSVAEKFEVSWETVMVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--DGAAPVFCGSALSPTIDF 750  
gi | 118085575 | ref | XP\_418545.2 | ETKIDDVSLPMOILKPAITFDTHYPLLLVVDGTPGQIVTVEFEVWEVTVLVSSHGAVVVKCDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQ--VFACGAALSPITDF 750  
gi | 169403984 | ref | NP\_001108594.1 | NVNIDDVSLMIOILKPAITFDTHYPLLLVVDGTPGGQVDSVLLVSSPNTIVVRLDGRGSGFGGTGKLLHEVRRRLGLLEEKDQMEAVRITMLKEQYIDRTRVAVFGKDYGGYLSYIILPARG--ENQ--VFACGAALSPITDF 750



```

..*****   ::* **:.....*.. *  : :::**..*****..*..**.. *****.....*:: : :*** .*:..*..** : : :::*:.
gi|86792774|ref|NP_570629.2|KLYASAFSERVYLGHLGDLNRAYEMTKVAHRVSALEEQOFLIIHPTADEKIHFOHTAELITQLIRGKANYSLQIYVPDESHYFTSSSLKQHLHRSIINFFVFCFRIDKLLVVTAKEDDEED 870
gi|77681485|ref|NP_001029333.1|KLYASAFSERVYLGHLGDLNRAYEMTKVAHRVSALEEQOFLIIHPTADEKIHFOHTAELITQLIRGKANYSLQIYVPDESHYFTSSSLKQHLHRSIINFFVFCFRIDKLLVVTAKEDDEED 870
gi|24429568|ref|NP_034205.1|KLYASAFSERVYLGHLGDLNRAYEMTKLAHRVSALEDOOFLIIHATADEKIHFOHTAELITQLIKGKANYSLQIYVPDESHYFHSVALKQHLHRSIIGFFVFCFRVODKLPATAKEEEEEED 870
gi|12408298|ref|NP_074041.1|KLYASAFSERVYLGHLGDLNRAYEMTKLAHRVSALEDOOFLIIHATADEKIHFOHTAELITQLIKGKANYSLQIYVPDESHYFHSVALKQHLHRSIIGFFVFCFRIDKLPATAKEEEEEED 870
gi|27806657|ref|NP_776465.1|KLYASAFSERVYLGHLGDLNRAYEMAKVAHRVSALEGOOFLVIHATADEKIHFOHTAELITQLIKGKANYSLQIYVPDESHYFSSAALQHLHRSILGFFVFCFRIDKLPVATAREDEEED 870
gi|118085575|ref|XP_418545.2|KLYASAFSERVYLGHLGIDNRVYEITRLAHRVSLKKEQTFLLIIHATADEKIHFOHTADLITHLIRAKANYSLQIYVPDESHYFSSNPALQHLHRSIVNFFASCFOVDKLPAPLKEBEDDD 870
gi|169403984|ref|NP_001108594.1|SIYASAFSERVYLGLPQINIKREYEMARLTDREQLRDKKLMIIHPTADEKVHFOHTAKFINHLINEKANYTLQIYVDRGHFLNKKDSQHLSSQLVNFVFCFTPEEIIQEEKLDNEDDG 870
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870

```

