

gi | 4507441 | ref | NP\_003211.1 | **--MLWKLLD---NIKVEDCEDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 114605423 | ref | XP\_001166719.1 | **MKMLWKLLD---NIKVEDCEDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 74003894 | ref | XP\_848968.1 | **--MLWKLLD---NIKVEDCEDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 122692315 | ref | NP\_001073697.1 | **--MLWKLLD---NIKVEDCEDRHD--GANSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 31981462 | ref | NP\_035677.2 | **--MLWKLLD---NIKVEDCEDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 109504829 | ref | XP\_225238.4 | **---MLVH---SFS--AMDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 45384160 | ref | NP\_990425.1 | **--MLWKLLD---NIKVEDCEDRHD--SANSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 28849910 | ref | NP\_789829.1 | **--MLWKLLD---NIKVEDCEDRHD--GTSNG-----TAR-LPOLGTVG--OSPPTSAPPLSHT--PNADFOPPYFPPPYC-----PIYPOSQDPYSHVN-DPY--SLNPLHAOPQPHPGWPGQROSOE-SGLLHTHRGLPH** 150

gi | 24668248 | ref | NP\_730664.1 | **--MLLVAVD---MPAVIQVQERLSGSGSLGLSGSAAVYTHSGGHTGRSGPAVGHG-GHSSTHGSAATMHQSLQSDFOPPYFPPPHHSTOSPPQQNHGALEYLGDTPYGGPLSSLHHPFLHHYNQLAGLRSTODQGLGIHRTHREAEL** 150

gi | 158301133 | ref | XP\_320880.4 | **---SOMRVLNQSLIFPSLPPPERLITSGGIGLSSGSPAYSAHTGGHTGRNGPAGHGSGSGGSGHGGPPTMHQTLQSDFOPPYFPPPHHTOSPPQQNHG-LDYLSDPYGGPLSSLHHPFLHHYNQLAGLRSTODQGLGIHRSHRESLEL** 150



gi | 4507441 | ref | NP\_003211.1 | **QLSGLDPRRDYRRHEDLLHGPHALSGLGD-LSIHSLPHAIEEVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 114605423 | ref | XP\_001166719.1 | **QLSGLDPRRDYRRHEDLLHGPHALSGLGD-LSIHSLPHAIEEVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 74003894 | ref | XP\_848968.1 | **QLSGLDPRRDYRRHEDLLHGPHALSGLGD-LSIHSLPHAIEEVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 122692315 | ref | NP\_001073697.1 | **QLSGLDPRRDYRRHEDLLHGPHGLSGLGD-LPIHSLPHAIEDVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 31981462 | ref | NP\_035677.2 | **QLSGLDPRRDYRRHEDLLHGPHGLSGLGD-LPIHSLPHAIEDVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 109504829 | ref | XP\_225238.4 | **QLSGLDPRRDYRRHEDLLHGPHGLSGLGD-LPIHSLPHAIEDVPHVEDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 45384160 | ref | NP\_990425.1 | **QLSGLDPRRDYRRHEDLLHGPHGLGAGLAD-LPLHSIPHAIEDVPHVDDPGINIPDQTVIKKGPVSLSKS--NSNAVSAIPIKNDLFGGVNPNNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 28849910 | ref | NP\_789829.1 | **QLC-----REYRR--EVLFPSSGSGID--GLTDSIPIHGIPHSLEDVQVQVEDQGIHIPDQTVIKKGPVSLSKS--NSN-ISAIPINKDGLVGGVNPNEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRS** 300

gi | 24668248 | ref | NP\_730664.1 | **QGHVQLSHGFPYDRRSDYGSATSAAGAHRGLG-HEHELALHQALQNAVDVQAPALDDNVAFMSDLPLIKSMKQ---GKEAGNISSGSPSEVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRL** 300

gi | 158301133 | ref | XP\_320880.4 | **QGHVQLSHGFPYSDRRSDYSGSGGAG-AIRLGAHEHDLALHQAQSAVDDGQNPVIDENAGFMSDLPLLNKFPITIDIKKDSQINLGSPSDVFCVSPGRLSLSSSTSKYKVTVAEVORRLSPPECLNASLLGGVLRRAKSKNGGRL** 300



gi | 4507441 | ref | NP\_003211.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 114605423 | ref | XP\_001166719.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 74003894 | ref | XP\_848968.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 122692315 | ref | NP\_001073697.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 31981462 | ref | NP\_035677.2 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 109504829 | ref | XP\_225238.4 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 45384160 | ref | NP\_990425.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKAVAEFLNRQHSDPNEQVTRKNMMLLAKQICKKEFTDLLAQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGSPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 28849910 | ref | NP\_789829.1 | **LREKLDKIGLNLPAGRRKAANVLLTSLVEGEAVHLARDFGYVCETEFFAKATAEYMNQRHSDPNEQVTRKNMMLLAKQICKKEFTDLSQDRSPLGNSRPNPILEPGIQSCLTHFNLSHGFGTPAVCAAVTALQNYLTEALKAMDKMYL** 450

gi | 24668248 | ref | NP\_730664.1 | **LREKLEKIGLNLPAGRRKAANVLLTSLVEGEATHLAKDFHFCVETEFFPARQAEYIVRHQTEPQDSVRRKELLILHSOQITKELMOILSDRTHFFGRSQRHLELPPSMORHLTHFSLIHGFGSPAIVAVLHAFQTFNLSNLYLEKLYP** 450

gi | 158301133 | ref | XP\_320880.4 | **LREKLEKIGLNLPAGRRKAANVLLTSLVEGEATHLARDFGYVCETEFFPARQAEYVLSROYSEPQESVRRKELLILNKQVTKELMDLLNDRSPLCNTRPHILDPISIRHLTHFSLIHGFGSPAIVAAVAFALQNYLINESIKHLDKMYP** 450



gi | 4507441 | ref | NP\_003211.1 | **SNNPNSHTDNNAKSSDKEEKHKK** 473

gi | 114605423 | ref | XP\_001166719.1 | **SNNPNSHTDNNAKSSDKEEKHKK** 473

gi | 74003894 | ref | XP\_848968.1 | **SNNPNSHTDNSAKSSDKEEKHKK** 473

gi | 122692315 | ref | NP\_001073697.1 | **SNNPNSHTDNNAKSSDKEEKHKK** 473

gi | 31981462 | ref | NP\_035677.2 | **SNNPNSHTDNSAKSSDKEEKHKK** 473

gi | 109504829 | ref | XP\_225238.4 | **SNNPNSHTDNSAKSSDKEEKHKK** 473

gi | 45384160 | ref | NP\_990425.1 | **SNNPNSHTDNSKSSDKEEKHKK** 473

gi | 28849910 | ref | NP\_789829.1 | **NNPNNSHSETGSKAGDKDEKHKK** 473

gi | 24668248 | ref | NP\_730664.1 | **SNGGGMVSSSLDKSKIDNEKK--** 473

gi | 158301133 | ref | XP\_320880.4 | **GNCGSMVSSSLDKNKMESDKK--** 473

