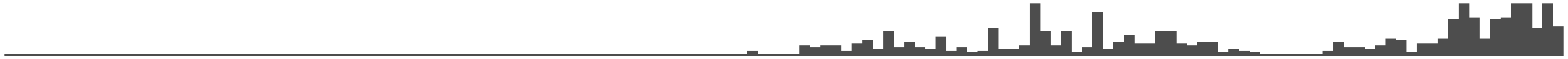
```
                                                                                                   *     :         .                       :*. ::**:*.
gi|73971443|ref|XP_532014.2|       MQNNEIIKPAKYFSELEKSILLALVEKYKYVLECKKSDARTIALKQRTWQALAHEYNSQPSVSLRDFKQLKKCWENIKARTKKIMAHERREKVKRSVSPLLSTHVLGKEKITSMLPEQLYFLQSPPEEEPEYHPDNAAQELNVRESDVRV   150
gi|118086690|ref|XP_419072.2|      -------------------------------------------------------------------------------------MSEISEEVSKTMWRLLFGEALLEEGIQAATAKYK-------RQKQIYVPP--TTQLNVKESDVRV   150
gi|29568105|ref|NP_003683.2|       ------------------------------------------------------------------------MGAAAAEAPLRLPAAPPLAFCCYTSVLLLFAFSLPGSRASNQPPGGGGGSG--GDCPGGKGKSINCSELNVRESDVRV   150
gi|114625906|ref|XP_001134837.1|   ------------------------------------------------------------------------MGAAAAEAPLRLPAAPPLAFCCYTSVLLLFAFSLPGSRASNQPPGGGGGSGSGGDCPGGKGKSINCSELNVRESDVRV   150
gi|194669678|ref|XP_001788195.1|   ------------------------------------------------------------------------MGAVAAEAPLRLPAAPPLAFCCYTSVLLLFAFSLPGSRASNQPPGGGGG----GDCPGGKGKSVNCSELNVRESDLRV   150
gi|39930405|ref|NP_067411.1|       ------------------------------------------------------------------------MG---AQAPLRLPAAPPLAVCGYTSVLLLFAFCLPGSRASNQPAGGGGD------CPGGRGKS-NCSELNLRESDIRV   150
gi|12711686|ref|NP_075409.1|       ------------------------------------------------------------------------MG---AQAPLRLPAAPPLAVCGYTSVLLLFAFCLPGSGASNQPAGGGGD------CPGGRGKSINCSELNLRESDIRA   150
gi|70778891|ref|NP_001020472.1|    -----------------------------------------------------------------------------MLMGRGFVSWTGAELLLCVFCLLTITTTIISPARGSVQSSYPQN------SDCASGKGKGCLDLSEKKSDLRV   150
                                   1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150
```



```
                                   ** ::*::.*:*:::*..:**.***** .*******:*********:*::***::**.*.:  .*** .*..****:** :***    :* :**. *** ********: . * *:*****:. ****.:**.**:***:******::**
gi|73971443|ref|XP_532014.2|       CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKEITVVARGPCYSDNGSGSGEGEEEGSGAEVHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIKQE   300
gi|118086690|ref|XP_419072.2|      CDESSCKYGGVCKEEGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKEITMVSRGPCYSDNGSGSGEGEYEGSGTEVQRKHSKCGVCKYRAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCLRQE   300
gi|29568105|ref|NP_003683.2|       CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKEITVIARGPCYSDNGSGSGEGEEEGSGAEVHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIKQE   300
gi|114625906|ref|XP_001134837.1|   CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKEITVVARGPCYSDNGSGSGEGEEEGSGAEVHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIKQE   300
gi|194669678|ref|XP_001788195.1|   CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKEITVVARGPCYSDNGSGSGEGEEEGSGAEVHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIKQE   300
gi|39930405|ref|NP_067411.1|       CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKDITVVARGPCYSDNGSGSGEGEEEGSGAGAHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIKQE   300
gi|12711686|ref|NP_075409.1|       CDESSCKYGGVCKEDGDGLKCACQFQCHTNYIPVCGSNGDTYQNECFLRRAACKHQKDITVVARGPCYSDNGSGSGEGEEEGSGAGAHRKHSKCGPCKYKAECDEDAENVG-CVCNIDCSGYSFNPVCASDGSSYNNPCFVREASCIRQE   300
gi|70778891|ref|NP_001020472.1|    CDATTCRFNGICQNNGGDIKCVCQFQCSKNYIPVCGTNGDTYQNECYLKQAACNQQKSIVLANEGPCDPDSSSGSGNGEFDGSGLESGKKVTKCSNCKYGAECDEDAEDEDSCSCKIDCSGHNENPVCGTDGNSYHNPCLVREASCMKQE   300
                                   .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
```

```
                                   ***::***:*.: *.     *.: *: *:*:  *...: :  *    :**.:.   .:*:**:**: :.   *:***:***** :* * :**.******* *** :*****************:************* ***:**    :.*:
gi|73971443|ref|XP_532014.2|       QIDIRHLGHCTDTDDTSLLGKKDDGLQYRPDVKDASDQREDVYIGNHMPCPENLNGYCIHGKCEFVYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|118086690|ref|XP_419072.2|      QIDIRHLGHCSEADDTNAVGKKDDGMQYRPEVKDASDQREDIYIGNHIPCSESFNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|29568105|ref|NP_003683.2|       QIDIRHLGHCTDTDDTSLLGKKDDGLQYRPDVKDASDQREDVYIGNHMPCPENLNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|114625906|ref|XP_001134837.1|   QIDIRHLGHCTDTDDTSLLGKKDDGLQYRPDVKDASDQREDVYIGNHMPCPENLNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|194669678|ref|XP_001788195.1|   QIDIRHLGHCTDTDDTSLLGKKDDGLQYRPDVKDASDQREDVYIGNHMPCPENLNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|39930405|ref|NP_067411.1|       QIDIRHLGHCTDTDDVSLLGKKDDGLQYRPDVKDAGDEREDVYIGSHMPCPENLNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSD   450
gi|12711686|ref|NP_075409.1|       QIDIRHLGHCTDTDDTSLLGKKDDGLQYRPDVKDAGDQREDVYIGSHMPCPENLNGYCIHGKCEFIYSTQKASCRCESGYTGQHC-EKTDFSILYVVPSRQKLTHVLIAAIIGAVQIAIIVAIVMCITRKCPKNNRGRRQKQNLGHFTSE   450
gi|70778891|ref|NP_001020472.1|    QIDVKHLGRCPDKDKS---KKTEAGLPYKPDYADPAKEGK-GYGWLPVPCTDDYANFCVHGQCELNFG--IATCRCDSGYTGTQCDEIADFNILYVVPSGQKLHYVLIAAIIGAVQIAIIVAVVMCITRKCPKNNRKRRQQQN---YPSN   450
                                   .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
```

```
                                   .****:
gi|73971443|ref|XP_532014.2|       TSSRMV    456
gi|118086690|ref|XP_419072.2|      TSSRMV    456
gi|29568105|ref|NP_003683.2|       TSSRMV    456
gi|114625906|ref|XP_001134837.1|   TSSRMV    456
gi|194669678|ref|XP_001788195.1|   TSSRMV    456
gi|39930405|ref|NP_067411.1|       TSSRMV    456
gi|12711686|ref|NP_075409.1|       TSSRMV    456
gi|70778891|ref|NP_001020472.1|    NSSRMM    456
                                   ......
```