

SSG2 : -MGACMSSN-SEEVEOKKRSOKIDKDLEEDSKRLRRECKILLLLGSGESGKSTIVQMKIIHLKGYSDELFSYRPTVFKNLIECAKAVIN
 MAGA : -MGACMSAS-SEESEOKKRSOKIDKDLEEDSKRLRRECKILLLLGSGESGKSTIVQMKIIHLKGYSDELNYRPTVFKNLIECAKAVIS
 CPG2 : -MGACMSSS-SEETEOKKRSOKIDKDLEEDSKRLRRECKILLLLGSGESGKSTIVQMKIIHLKGYSDEELNYRPTVFKNLIECAKAVVN
 GNA3 : -MGACMSKN-DEETEOKKRSOKIDRDLEEDSKRLRRECKILLLLGSGESGKSTIVQMKIIHLKGYSDEELTNYPRTVYKNLIECAKAVVN
 WGA1 : MMGACMSSN-KEDEEOKKRSQAIDRALDEEDSKRLRRECKILLLLGSGESGKSTIVQMKIIHLKGYSSEELNYRATVFKNLIECAKAVII
 GANB : -MGSCFSSSESAGDVEOKKRSQAIDRKLEEDSRRLRRECKILLLLGSGESGKSTIVQMKIIHQNGYTVEELALYRLTVYKNLIECAKALIG
 SSG1 : -MCGGMSV---EEKEGKARNEETIENOLKRDRMOORNEIKMLLLGAGESGKSTILQMKLIHEGGYSRDERESFKEIYYNTVQSMRVILE
 MGacmS ee EqKkRsQ Id LeeDskrlRrEcKILLGSGESGKSTIVQMKIIHLKGYS El yr tv knl ecavak
 100 120 140 160 180
 SSG2 : AMRQFEIELESDEIRAYCDFLLDYSIGSGP-QPSIDPKVGEAVLALWEDPVRGQLMERQTEFYLMDSAGYFFDEVRRIVHPDYIPNEMDV
 MAGA : AMRQFDIEPQLEGNKELCDYLLDYMVESGP-QAEIDPKVGQAVQSIWNDPAREQLMDRQTEFYLMDSAEYFFQEVLRIVSPDYLPNEMDV
 CPG2 : AMRQFDIEPEKEETKTLCDFILEYSVDSGP-QVLIDTRVGEAIOAIWNDPARKQLMDRQTEFYLMDSAEYFFEQAQRIVRODYLPNEMDV
 GNA3 : AMHQFDIQPADPSLRPYVEFLQDYNMEGCPGQSIDPKVGTAIOALWNDPAKEQLMERQTEFYLMDSAEYFFTVMRIVAEDYRPNEMDV
 WGA1 : AMDQFEIEPSSEGTTDYCDYLRNYTVESGP-SARIEAKVGIAVQALWNDPCIDRLMQHATEFYLMDSAGYFFDEVHRICAPDYLPNEMDV
 GANB : AYHQFNLEPTSQKVRDNIIEFLANYNIDPDP-NIPLDPAVGDAITYIWNDCPTSTALERONEFYLMDSAPYFFEEAKRITSPTYIPNVNDV
 SSG1 : AMESLELPLEDQRMEYHVQITIFMQPAQIE-GEVL-PPEVGNAIEALWKDAVVQECFKRSREYQLNDSARYYFDNIARIAAPDYMPDDQDV
 Am qf iep l y p idp VG A a WnDp lm rqtEfyLmDSA Yff e RI pDY PnemDV
 200 220 240 260
 SSG2 : LRARTKTTGIYETRFQMGPLSIHMFVGGQSRERKKWIHCFEDVTSIIFCVALSEYDQVLLLEESSQNRMMESLILFDSVNSRWFMRTSI
 MAGA : LRARTKTTGIYETRFQMGOLSIHMFVGGQSRERKKWIHCFENVTSIIFCVALSEYDQVLLLEESSQNRMMESLILFDSVNSRWFMRTSI
 CPG2 : LRARTKTTGIYETRFQMGOLSIHMFVGGQSRERKKWIHCFENVTSIIFCVALSEYDQVLLLEESSQNRMMESLILFDSVNSRWFMRTSI
 GNA3 : LRARTKTTGIYETRFQMGOLSIHMFVGGQSRERKKWIHCFENVTSIIFCVALSEYDQVLLLEESSQNRMMESLILFDSVNSRWFMRTSI
 WGA1 : LRARTKTTGIYETRFQMGALNIHMFVGGQSRERKKWIHCFENVTSIIFCVALSEYDQVLLLEESSQNRMMESLILFDSVNSRWFMRTSI
 GANB : LRARTKTTGIYETRFQMGOLSIHMFVGGQSRERKKWIHCFENVTSIIFCVALSEYDQVLLLEEGNQRMMESLVLFDSDVNSRWFMRTSI
 SSG1 : LRSRVKTTGITKFTIIGDLTYRMFVGGQSRERKKWIHCFENVTTILFLVAISEYDQLLFEDETVMRMOEALTLFDSICNSRWFIKTSI
 LRaRtKTTGIyEtrf mG LsihMFVGGQSRERKKWIHCFENVtsIiFcValseYDQvLlEssqNRmMesiLlLFDSvvnSRWfmrTsi
 280 300 320 340
 SSG2 : ILFLNKVDIFKQKLGRSPLGNYFPDYSGGDDANKAAKYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILNNALKDSGIL
 MAGA : ILFLNKVDIFKQKLGRSPLGNYFPDYSGGNDVNKAAYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILNNALKDSGIL
 CPG2 : ILFLNKVDIFKQKLGRSPLSNYFPDYSGGNDVNKAAYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILNNALKDSGIL
 GNA3 : ILFLNKVDIFKQKLGRSPLGNYFPDYSGGNDVNKAAYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILNNALKDSGIL
 WGA1 : ILFLNKVDIFKAKLPRSPLGNYFPDYSGGNDVNKAAYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILNNALKDSGIL
 GANB : ILFLNKVDLFRKLRSPLSNYFPDYSGGNDVNRAAKYLLWRFNQVNRAHLN-LYPHLTQATDTSNIRLVFAAVKETILQNALKDSGIL
 SSG1 : ILFLNKIDRFKEKLPISPMKNYFPDYEGGDDYAAACDYILNRFVNLNQHESKQIYTHFTCATDTSQIRFVMAAVNDIIIQENLRLCGLI
 ILFLNKvDiFkqKL rSPl NYFPDYsGGnDvnkAaYlLwRfNgvNrahln lYpHlTqATDTsnIRlVfAAVketIlInnaLkdsGil