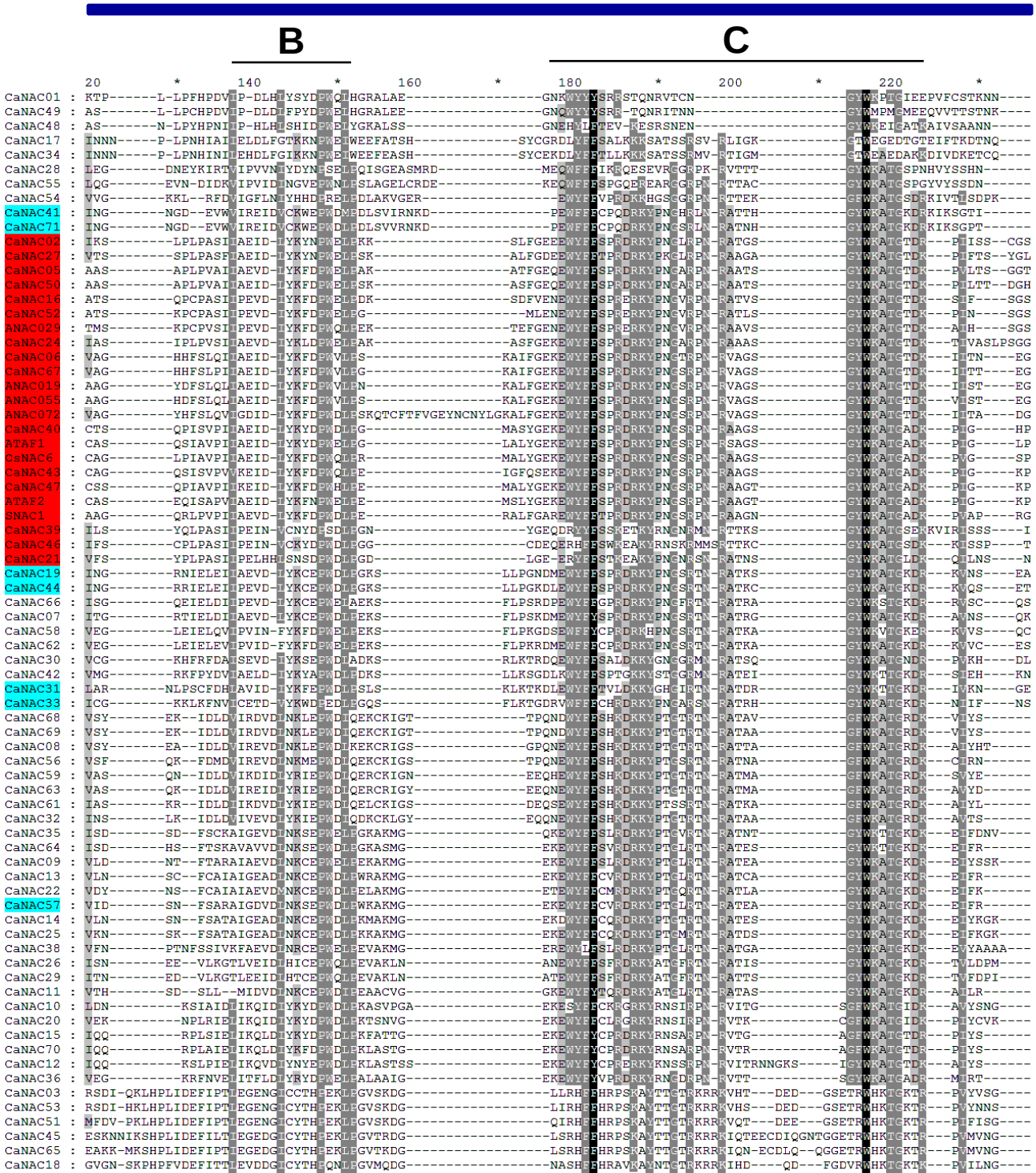
NAC domain

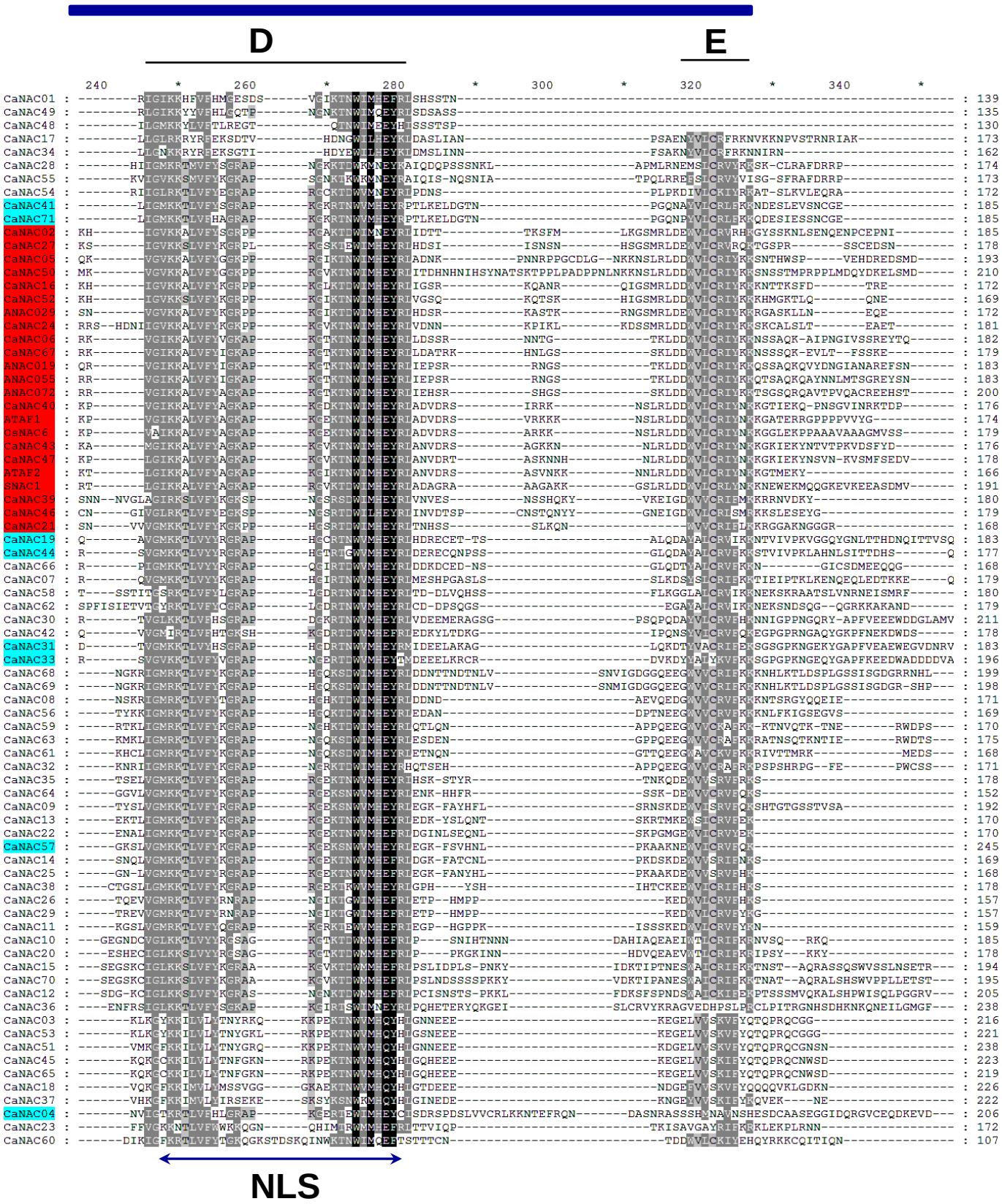
A

```
                 *        20         *        40         *        60         *        80         *       100         *         1
CaNAC01 : ------------------------------------------------------------------------------------MDNNSINNVNLPPG--FRFYPTDEELVLHFLHRK :  32
CaNAC49 : ------------------------------------------------------------------------------------MGDN-NNNVNLPPG--FRFYPTDEELIVHFLHRK :  31
CaNAC48 : ------------------------------------------------------------------------------------MLGS--ENMKLPPG--FYFSPTDEELVLHFLYSK :  30
CaNAC17 : ------------------------------------------------------------------------------------MALN-FSSTTRIIKPTDEELFQSFLYNK :  27
CaNAC34 : ------------------------------------------------------------------------------------MALDSLSS--RNLKPTDEELIKSFLYNK :  26
CaNAC28 : ------------------------------------------------------------------------------------MENMLPG--YRFYPTEEELISFYLHNM :  25
CaNAC55 : ------------------------------------------------------------------------------------MVEHLPTG--YRFFPTEEELVGFYLNKK :  26
CaNAC54 : ------------------------------------------------------------------------------MASMEDIMMSTEDITLPG--FRFHPTEEELIDFYLKNM :  36
CaNAC41 : ------------------------------------------------------------------------------MGSIDCGPSLGDDGMAVLSLNSLPLG--FRFRPTDEELIDYYLRQK :  44
CaNAC71 : ------------------------------------------------------------------------------MGAVDCLPPSHAEEMAVLSLNKLPLG--FRFRPTDEELIDFYLRLK :  44
CaNAC02 : ------------------------------------------------------------------------------MEGKQKGS---SYTFPPG--FRFHPSDEELIVHYLQKK :  33
CaNAC27 : ------------------------------------------------------------------------------MDKKNHHS---EIQLPPG--FRFHPSDEELIVHYLRNK :  33
CaNAC05 : ------------------------------------------------------------------------------MESTDSSTGSQQPNLPPG--FRFHPTDEELVVHYLKKK :  36
CaNAC50 : ------------------------------------------------------------------------------MDSTDSSSCSPHPHLPPG--FRFHPTDEELVVHYLKRK :  36
CaNAC16 : ------------------------------------------------------------------------------MNGRTSS------DLPPG--FRFHPTDEELIVYYLCNQ :  30
CaNAC52 : ------------------------------------------------------------------------------MESNTSS------ELPPG--FRFHPTDEELIVYYLGNQ :  30
ANAC029 : ------------------------------------------------------------------------------MEVTSQS------TLPPG--FRFHPTDEELIVYYLRNQ :  30
CaNAC24 : ------------------------------------------------------------------------------MGTPQS------NLPPG--FRFHPTDAELILHYLRKK :  29
CaNAC06 : ------------------------------------------------------------------------------MGIQDK-DPLSQLSLPPG--FRFYPTDEELIVQYLCRK :  35
CaNAC67 : ------------------------------------------------------------------------------MGVPEK-DPLSQLSLPPG--FRFFPTDEELIVQYLCRK :  35
ANAC019 : ------------------------------------------------------------------------------MGIQET-DPLTQLSLPPG--FRFYPTDEELVVQYLCRK :  35
ANAC055 : ------------------------------------------------------------------------------MGLQEL-DPLAQLSLPPG--FRFYPTDEELVVEYLCRK :  35
ANAC072 : ------------------------------------------------------------------------------MGVREK-DPLAQLSLPPG--FRFYPTDEELIVQYLCRK :  35
CaNAC40 : ------------------------------------------------------------------------------MA------SELQLPPG--FRFHPTDEELVMHYLCRK :  28
ATAF1   : ------------------------------------------------------------------------------MS------ELLQLPPG--FRFHPTDEELVMHYLCRK :  28
OsNAC6  : ------------------------------------------------------------------------------MSGG----QDLQLPPG--FRFHPTDEELVMHYLCRR :  30
CaNAC43 : ------------------------------------------------------------------------------MK------GELELPPG--FRFHPTDEELVNHYLCRK :  28
CaNAC47 : ------------------------------------------------------------------------------MQ------GALDLPPG--FRFHPTDEELVNHYLCRK :  28
ATAF2   : ------------------------------------------------------------------------------MK------SELNLPAG--FRFHPTDEELVKFYLCRK :  28
SNAC1   : ------------------------------------------------------------------------MGMGMRRERDAEAELNLPPG--FRFHPTEDELVEHYLCRK :  38
CaNAC39 : ------------------------------------------------------------------------------MENVKFIKNGISKLPPG--FRFQPTDEELVFQYLKCK :  35
CaNAC46 : ------------------------------------------------------------------------------MEKLNFIKNGVSRLPPG--FRFQPTDEELVFQYLKCK :  35
CaNAC21 : ------------------------------------------------------------------------------MNLVK-KKNGEVKLPPG--FRFHPTDEELVVQYLRRK :  34
CaNAC19 : ------------------------------------------------------------------------------MAPVSLPPG--FRFHPTDEELVAYYLRRK :  27
CaNAC44 : ------------------------------------------------------------------------------MAPVSLPPG--FRFHPTDEELVSYYLRRK :  27
CaNAC66 : ------------------------------------------------------------------------------MSPVGLPPG--FRFHPTDEELVNYYLRRK :  27
CaNAC07 : ------------------------------------------------------------------------------MAPMTLPPG--FRFHPTDEELVAYYLERK :  27
CaNAC58 : ------------------------------------------------------------------------------MGEAILPPG--FRFHPTDEELVGYYLRRK :  27
CaNAC62 : ------------------------------------------------------------------------------MGGASLPPG--FRFHPTDEELIGYYLRRK :  27
CaNAC30 : ------------------------------------------------------------------------MGHETLLLPAPPTTVNPPLSASSTAAPPTSLAPG--FRFHPTDEELIYYLRRK :  52
CaNAC42 : ------------------------------------------------------------------------------MAETKLIPG--FRFHPTDVELVMYFLRRK :  27
CaNAC31 : ------------------------------------------------------------------------------MAVYNSPG--FRFHPTDEELVCFYLRRK :  26
CaNAC33 : ------------------------------------------------------------------------MGAVSESASADCFSEVMSSMPG--FRFHPTDEELVMYFLRRK :  40
CaNAC68 : ------------------------------------------------------------------------------MPENMSISVNGQSQVPPG--FRFHPTEEELIQYYLRKK :  36
CaNAC69 : ------------------------------------------------------------------------------MPENMSISVNGQSQVPPG--FRFHPTEEELIQYYLRKK :  36
CaNAC08 : ------------------------------------------------------------------------------MMQGSGQLTVPPG--FRFHPTDEELIYYYLRKK :  31
CaNAC56 : ------------------------------------------------------------------------------MGSSNNGGVPPG--FRFHPTDEELIHYYLKKK :  30
CaNAC59 : ------------------------------------------------------------------------------MKESVVPEE--FRFHPTDGELVDYYLRKK :  27
CaNAC63 : ------------------------------------------------------------------------------MMESMESCVPPG--FRFHPTDEELVGYYLRKK :  30
CaNAC61 : ------------------------------------------------------------------------------MNNFSHVPPG--FRFHPTDEELVDHYLRKK :  28
CaNAC32 : ------------------------------------------------------------------------------MDMESCVPPG--FRFHPTEEELVGYYLNRK :  28
CaNAC35 : ------------------------------------------------------------------------MQKNKEVINKEGKGMEIEGIPLAKEETLPPG--FRFHPTDEELITYYLVNK :  49
CaNAC64 : ------------------------------------------------------------------------------MEENLPPG--FRFHPTDEELITHYLTMK :  26
CaNAC09 : ------------------------------------------------------------------------MDNFYHHHHNHIINNNNNNNNNNSDAHLPPG--FRFHPTDEELITFYLLKK :  49
CaNAC13 : ------------------------------------------------------------------------MMDAMEKKSRD-LESDEKFELPPG--FRFHPTDEELITHYLSQK :  41
CaNAC22 : ------------------------------------------------------------------------MGSMENVSVP-KMEEEKFEFVG--FRFHPTDEELINQYLVKK :  40
CaNAC57 : MRLPYIPRFFLPKTPLFMPFFSSLFSLLNLNTTTTTFTFSCFLTLISLHFFSFFHTSLTPFLFFSLHFIELLRLTLEIMENVSVLSCKEDEKMDLPPG--FRFHPTDEELISHYLYKK : 116
CaNAC14 : ------------------------------------------------------------------------MDEPIVLNK-VDESLDLPPG--FRFHPTDEIITCYLINK :  37
CaNAC25 : ------------------------------------------------------------------------MEEPIVVNKGEDQGLDLPPG--FRFHPTDEEIIVCYLTEK :  38
CaNAC38 : ------------------------------------------------------------------MMLAMEEVLCELSDHENKREQQGLPPG--FRFHPTDEELITFYLASK :  45
CaNAC26 : ------------------------------------------------------------------------------MG-LRDIGASLPPG--FRFYPSDEELVCHYLYKK :  31
CaNAC29 : ------------------------------------------------------------------------------MG-LRDLGASLPPG--FRFYPSDEELVLHYLYKK :  31
CaNAC11 : ------------------------------------------------------------------------------MSNISMVEAKLPPG--FRFHPRDEELVCDYLMKK :  32
CaNAC10 : ------------------------------------------------------------------------MGVNDDFNKDNEYVDDDVPLPG--FRFHPTDEELVTFYLRRK :  40
CaNAC20 : ------------------------------------------------------------------------MDVS-KLQNSNEKKEDEVVLPG--FRFHPTDEELVGFYLRRK :  39
CaNAC15 : ------------------------------------------------------------------------MEER---NDGEK--LDEVLLPG--FRFHPTDEELVGFYLKRK :  35
CaNAC70 : ------------------------------------------------------------------------MEER---NGGDK--LDEVMLPG--FRFHPTDEELVGFYLKRK :  35
CaNAC12 : ------------------------------------------------------------------------MEERSKMDNYDE--VDDVTLPG--FRFRPTDQELIGFYLKKK :  38
CaNAC36 : ------------------------------------MAIAAATTSTSVSMSMSMSQSHSHEDITSNENNNNNKHVVDEDEDDDDDDHEHDVVMPG--FRFHPTEEELVEFYLRRK :  77
CaNAC03 : ------------------------MTQCSYPE------------------NNHSTVIVERRKDSLIR--TCPTCGHHIKCHEQAAGIHELPGLPAG--VKFDPTDQEIIEHLEAKV :  70
CaNAC53 : ----------------------MSEEMTLCSDIQ------------------NNDHSVTLEGRTDSLIR--TCLTCGHHIKCQDQGGGINDLPGLPAG--VKFDPTDQEIIEHLEAKV :  74
CaNAC51 : ------------------------MTWCNDSDDQDRGIQLITSTFIRRIVSNETDLVTHDTKLPTQIRTLTCPSCGHNIQFQDQG-GINDLPGLPAG--VKFDPNDQEIIQHLEAKI :  90
CaNAC45 : ------------------------MMN--KMSNV----------------TCSDLIDAKLEEHQLCGSKQCPGCGHKFDQG----GKPDWLGLPAG--VKFDPTDQELIEHLEAKV :  68
CaNAC65 : ------------------------MSNNNNLSCV----------------RNSDLIDAKLEEHQLCGSNHCPSCGHNFES------KPDWLGLPAG--VKFDPTDQELIEHLEAKV :  68
CaNAC18 : ------------------------MAGPSWLVDKSR---------IATKIRSASGACHPENVTWKSNPSKTCPNCQHAIDNSD---VAQEWPGLPKG--VKFDPSDQEIIWHLAAKV :  79
CaNAC37 : ------------------------MAR-SWLIDIGG---------FAKKVKSTT--LSSADQIKDCGAYRECPNCHYRIDNSD---VSTEWPGFPLG--IKFDPSEVELIEHLAAKC :  76
CaNAC04 : ------------------------------------------------------------------------MEMVSKEAQMSIAASSMFPG--FRFCPTDEELISYYLRKK :  38
CaNAC23 : ------------------------------------------------------------------------MALDFLAEFDQPDCRRLPVG--YRFDPTEDVLVCFYLKKK :  38
CaNAC60 : ------------------------------------------------------------------------------------------------------------------ :   -
```

NAC domain


B
C
20 * 140 * 160 * 180 * 200 * 220 *
CaNAC01 : 102
CaNAC49 : 99
CaNAC48 : 97
CaNAC17 : 110
CaNAC34 : 109
CaNAC28 : 105
CaNAC55 : 105
CaNAC54 : 112
CaNAC41 : 120
CaNAC71 : 120
CaNAC02 : 108
CaNAC27 : 108
CaNAC05 : 111
CaNAC50 : 111
CaNAC16 : 103
CaNAC52 : 100
ANAC029 : 103
CaNAC24 : 106
CaNAC06 : 108
CaNAC67 : 108
ANAC019 : 108
ANAC055 : 108
ANAC072 : 125
CaNAC40 : 100
ATAF1 : 100
OsNAC6 : 102
CaNAC43 : 100
CaNAC47 : 100
ATAF2 : 100
SNAC1 : 111
CaNAC39 : 109
CaNAC46 : 107
CaNAC21 : 105
CaNAC19 : 102
CaNAC44 : 102
CaNAC66 : 102
CaNAC07 : 102
CaNAC58 : 102
CaNAC62 : 102
CaNAC30 : 127
CaNAC42 : 102
CaNAC31 : 102
CaNAC33 : 115
CaNAC68 : 110
CaNAC69 : 110
CaNAC08 : 106
CaNAC56 : 104
CaNAC59 : 101
CaNAC63 : 104
CaNAC61 : 102
CaNAC32 : 102
CaNAC35 : 122
CaNAC64 : 97
CaNAC09 : 122
CaNAC13 : 112
CaNAC22 : 111
CaNAC57 : 187
CaNAC14 : 110
CaNAC25 : 111
CaNAC38 : 121
CaNAC26 : 104
CaNAC29 : 104
CaNAC11 : 101
CaNAC10 : 115
CaNAC20 : 112
CaNAC15 : 106
CaNAC70 : 106
CaNAC12 : 116
CaNAC36 : 148
CaNAC03 : 156
CaNAC53 : 160
CaNAC51 : 176
CaNAC45 : 161
CaNAC65 : 157
CaNAC18 : 164
CaNAC37 : 164
CaNAC04 : 112
CaNAC23 : 111
CaNAC60 : 39

NAC domain


D
E
240
260
280
300
320
340
CaNAC01
CaNAC49
CaNAC48
CaNAC17
CaNAC34
CaNAC28
CaNAC55
CaNAC54
CaNAC41
CaNAC71
CaNAC02
CaNAC27
CaNAC05
CaNAC50
CaNAC16
CaNAC52
ANAC029
CaNAC24
CaNAC06
CaNAC67
ANAC019
ANAC055
ANAC072
CaNAC40
ATAF1
OsNAC6
CaNAC43
CaNAC47
ATAF2
SNAC1
CaNAC39
CaNAC46
CaNAC21
CaNAC19
CaNAC44
CaNAC66
CaNAC07
CaNAC58
CaNAC62
CaNAC30
CaNAC42
CaNAC31
CaNAC33
CaNAC68
CaNAC69
CaNAC08
CaNAC56
CaNAC59
CaNAC63
CaNAC61
CaNAC32
CaNAC35
CaNAC64
CaNAC09
CaNAC13
CaNAC22
CaNAC57
CaNAC14
CaNAC25
CaNAC38
CaNAC26
CaNAC29
CaNAC11
CaNAC10
CaNAC20
CaNAC15
CaNAC70
CaNAC12
CaNAC36
CaNAC03
CaNAC53
CaNAC51
CaNAC45
CaNAC65
CaNAC18
CaNAC37
CaNAC04
CaNAC23
CaNAC60
NLS

```
                  360         *        380         *        400         *        420         *        440         *        460         *
CaNAC01  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC49  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC48  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC17  : -----------------------------------------------------------------------------------------------------------------NANRR : 178
CaNAC34  : -------------------------------------------------------------------------------------------------------------------KIK : 165
CaNAC28  : --------------------------------------------------------------------------------------------------------------------AP : 176
CaNAC55  : --------------------------------------------------------------------------------------------------------------------LE : 175
CaNAC54  : --------------------------------------------------------------------------------------------------------------------AE : 174
CaNAC41  : --------------------------------------------------------------------------------------------------------------------VE : 187
CaNAC71  : --------------------------------------------------------------------------------------------------------------------VE : 187
CaNAC02  : ---------------------------------------------------------------------------------------------------------------------P : 186
CaNAC27  : ---------------------------------------------------------------------------------------------------------------------E : 179
CaNAC05  : ----------------------------------------------------------------------------------------------------------------DMIGGV : 199
CaNAC50  : ----------------------------------------------------------------------------------------------------------------HHHT-M : 215
CaNAC16  : ---------------------------------------------------------------------------------------------------------------------E : 173
CaNAC52  : ---------------------------------------------------------------------------------------------------------------------D : 170
ANAC029  : ---------------------------------------------------------------------------------------------------------------------G : 173
CaNAC24  : ----------------------------------------------------------------------------------------------------------------MVGDVD : 187
CaNAC06  : -------------------------------------------------------------------------------------------------------------------YSN : 185
CaNAC67  : -------------------------------------------------------------------------------------------------------------------YSN : 182
ANAC019  : -------------------------------------------------------------------------------------------------------------------NGT : 186
ANAC055  : -------------------------------------------------------------------------------------------------------------------NG- : 185
ANAC072  : -------------------------------------------------------------------------------------------------------------------NG- : 202
CaNAC40  : -------------------------------------------------------------------------------------------------------------------SEI : 179
ATAF1    : -------------------------------------------------------------------------------------------------------------------DEI : 177
CsNAC6   : -------------------------------------------------------------------------------------------------------------------GGG : 182
CaNAC43  : -------------------------------------------------------------------------------------------------------------------HEE : 179
CaNAC47  : -------------------------------------------------------------------------------------------------------------------HFE : 181
ATAF2    : --------------------------------------------------------------------------------------------------------------------FP : 168
SNAC1    : -------------------------------------------------------------------------------------------------------------------TSQ : 194
CaNAC39  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC46  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC21  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC19  : GRGEDLDSSNY-LMQINTCSPHNIGNQISLNRDHGNCSHFSYDDPSFTLPTSSSFTNHGPIAYPPSKVDIALECARMQHRFTMPPLVVEDFPQ-----------GSKTKTDILQEILS : 289
CaNAC44  : GRGDVLDTSNYNFMPCHSTSTQNLHGLLTRD-NNSTWTQFLSDD-LLNLPMSSSFPNYASTPYPPSKVDIALECARMQHRFSMPPLEVEDFPQVSISELNSMCSGNRNETDILQEILS : 293
CaNAC66  : ---------------------------------------------------------------------------QCS--------------------------------------MS : 173
CaNAC07  : GQGEDSSGT------------------------------------------------------------------EISR------------------------------------EME : 195
CaNAC58  : -SSEPFCKSG---------------------------------------------------------------------------------------------------------DVS : 192
CaNAC62  : -GSNSISTNGN--------------------------------------------------------------------------------------------------------EVS : 192
CaNAC30  : PGAASMNNGSVDRILR----------------------------------------------------------------------------------------------------LE : 229
CaNAC42  : --EEEVDCPQPVPVAA----------------------------------------------------------------------------------------------------VS : 194
CaNAC31  : DPLPAVDNEPLKQIVPSV-------------------------------------------------------------------------------------------PAIDNELLK : 210
CaNAC33  : FKINSPEKEAPNAVIDPL-------------------------------------------------------------------------------------------NGQMQPLFD : 223
CaNAC68  : ---------------------------------------------------------------------------------------------------------------MYDPCDD : 206
CaNAC69  : ---------------------------------------------------------------------------------------------------------------MYDPCDD : 205
CaNAC08  : ---------------------------------------------------------------------------------------------------------------------E : 172
CaNAC56  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC59  : ---------------------------------------------------------------------------------------------------------------NLYDDEE : 177
CaNAC63  : ---------------------------------------------------------------------------------------------------------------YFY--EE : 180
CaNAC61  : ---------------------------------------------------------------------------------------------------------------PCWYDDQ : 175
CaNAC32  : ---------------------------------------------------------------------------------------------------------------SSSQHQH : 178
CaNAC35  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC64  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC09  : --------------------------------------------------------------------------------------------------------------------TT : 194
CaNAC13  : ---------------------------------------------------------------------------------------------------------------------S : 171
CaNAC22  : ---------------------------------------------------------------------------------------------------------------------G : 171
CaNAC57  : ---------------------------------------------------------------------------------------------------------------------S : 246
CaNAC14  : ---------------------------------------------------------------------------------------------------------------------N : 170
CaNAC25  : ---------------------------------------------------------------------------------------------------------------------N : 169
CaNAC38  : ---------------------------------------------------------------------------------------------------------------------- :   -
CaNAC26  : ---------------------------------------------------------------------------------------------------------------------K : 158
CaNAC29  : ---------------------------------------------------------------------------------------------------------------------K : 158
CaNAC11  : ---------------------------------------------------------------------------------------------------------------------R : 160
CaNAC10  : --------------------------------------------------------------------------------------------------------------------QI : 187
CaNAC20  : --------------------------------------------------------------------------------------------------------------------TP : 180
CaNAC15  : ---------------------------------------------------------------------------------------------------------------TSMLTKN : 201
CaNAC70  : ---------------------------------------------------------------------------------------------------------------SNLLTND : 202
CaNAC12  : ---------------------------------------------------------------------------------------------------------------SELLTQT : 212
CaNAC36  : ---------------------------------------------------------------------------------------------------------------VGGQSNK : 245
CaNAC03  : ---------------------------------------------------------------------------------------------------------------------S : 217
CaNAC53  : ---------------------------------------------------------------------------------------------------------------------S : 222
CaNAC51  : ---------------------------------------------------------------------------------------------------------------------S : 239
CaNAC45  : ---------------------------------------------------------------------------------------------------------------------H : 224
CaNAC65  : ---------------------------------------------------------------------------------------------------------------------R : 220
CaNAC18  : ---------------------------------------------------------------------------------------------------------------------E : 227
CaNAC37  : ---------------------------------------------------------------------------------------------------------------------E : 223
CaNAC04  : ---------------------------------------------------------------------------------------------------------------GSSKRGS : 213
CaNAC23  : --------------------------------------------------------------------------------------------------------------------II : 174
CaNAC60  : -------------------------------------------------------------------------------------------------------------------NQN : 110
```

```
                 480         *       500         *       520         *       540         *       560         *       580         *
CaNAC01 : SSSSSSKIKSQPIKDYSKWVICRV-------------------------------------------YESKG------------------------------------------ : 168
CaNAC49 : SRSSSSKRKSQPKSEHSRWVICRV-------------------------------------------YESDD------------------------------------------ : 164
CaNAC48 : INLEES---------WSKWVLCKV-------------------------------------------YEKKMSQMSQ----------------------------------------- : 155
CaNAC17 : LQRNNTSMGNTGRGRKRKKTVAEC-------------------------------------------EATTISGNNNNNVVVREYTIYEEPI---------------------- : 227
CaNAC34 : MPRKSRTKNVGQHRRRK-IIIER--------------------------------------------PETTVSEKNN------------------------------------- : 198
CaNAC28 : RR-----VTNDQEFNKDSTICNHNN-VQIFATSSP--------------------------------DSS--SSLDHGQTSNEVG------------------------- : 221
CaNAC55 : KERVYELQVRDIDQNQFGATCTHNQAAKMDALSSF--------------------------------EISQFEGLHSTHMLEDVG------------------------- : 228
CaNAC54 : EEEMKQMVGSPASPPSSTDTISFSCIQQQDQHVSLPMLFLPK-----------------------KESEAETEDMVSLSVSTPSHEKS------------------------ : 239
CaNAC41 : QTTSAPMAANYSPEEIQSDAAPIA-VSTSQVTEDDKHQNVIP-----------------------EISEETISNVIASVDCHSDGYDA------------------------ : 251
CaNAC71 : QTASTPMTANYSPEEIQSDPNVVPGASSSQVTEDYKHLAAIP-----------------------ENSEEAISNFLTPADCYRDACNA------------------------ : 252
CaNAC02 : VNLQTS-EEHPTNTKFRADMITDY-------------------------------------------QYK--DYQIIASILVGGVIPPNE------------------------ : 230
CaNAC27 : LSFETSSHFQQMNDNSSPEPVKNY-------------------------------------------VQKQNEYPMLPYILASKSVLPN------------------------ : 225
CaNAC05 : PPSINVGQMNARFHFSKMSNSYNN-------------------------------------------TLLENDQNLLEGMMLSNNNNNNN------------------------ : 246
CaNAC50 : LPLTNMQQNNTKLPSSRSTSSYG--------------------------------------------LENDDNFFDGILAADQHQHQH------------------------- : 259
CaNAC16 : YP-TNQINVSPRN-DDDSEQ-----------------------------------------------ELMKFS------RTCSLT------------------------- : 203
CaNAC52 : YP-TLQFTDSTIVSNNDGEQ-----------------------------------------------ETMNLP------RTCSLT------------------------- : 201
ANAC029 : FMDEVLMEDETKVVVNEAERRTEE-------------------------------------------EIMMMTSMKLP------RTCSLA------------------------ : 214
CaNAC24 : QAKETQIKDTLFQITKNSTSPNQN-------------------------------------------TLMSQKSMSFSNLLDAMDYSMLS------------------------ : 234
CaNAC06 : DSSAS----SSSHLDDVLQSLP---------------------------------------------EIDDRCFMLPR--VNSLR-TM------------------------- : 221
CaNAC67 : GSSPS----SSSHVDDMVDSFP---------------------------------------------EIDDRSFALPR--VTSLR-ML------------------------- : 218
ANAC019 : SSTTS----SSSHFEDVLDSFHQ--------------------------------------------EIDNRNFQFSN--PNRIS-SL------------------------- : 223
ANAC055 : SSTSS----SSHQYDDVLESLH---------------------------------------------EIDNRSLGFAAGSSNALPHSH------------------------- : 224
ANAC072 : -SSSS----SSSQLDDVLDSFP---------------------------------------------EIKDQSFNLPR------------------------------------ : 230
CaNAC40 : EDKKPEILTRGSGLPPHPPPQ----------------------------------------ATAGMRDYMYFDT-SDSIPKLHT-DSSCS------------------------ : 227
ATAF1   : MEEKP----KVTEMVMPPPPQ----------------------------------------QTS---EFAYFDT-SDSVPKLHTTDSSCS------------------------ : 219
CsNAC6  : VQRKP--MVGVNAAVSSPPEQKPVVA-----------------------------------GPAFPDLAAYYDRPSDSMPRLHA-DSSCS------------------------ : 234
CaNAC43 : HERKP----EIDKLG--NYQL----------------------------------------------YMDSSDS-IPRLHT-DSCSS------------------------ : 212
CaNAC47 : NEKKP----QIKMNGQDDFRIN---------------------------------------------DHTDTSDS-VPRFHT-DSSCS------------------------ : 218
ATAF2   : ADEKP----RTTTMAEQSSSP----------------------------------------------FDTSDSTYPTLQE-DDSSSSGG------------------------ : 206
SNAC1   : SHSHTHSWGETRTPESEIVDND---------------------------------------------PFPELDSFPAFQPAPPPATAMMVP------------------------ : 240
CaNAC39 : ----------SVSIMNQPR------------------------------------------------------------------------------------------------ : 189
CaNAC46 : ----------STSTHHAPSKL----------------------------------------------------------------------------------------------- : 190
CaNAC21 : ------GGENTVTVREKPSKVKNS-------------------------------------------NSNSNSKV------------------------------------- : 194
CaNAC19 : HTHASQELMNQSNYSQAYDDNENYAPCEDDFTFMVGTNYNHIND------------------LNSMSYVDKPWEDLSTRSIEIGDQDEEFKEKRMVENLRWIGMPREDFEK---MAE : 385
CaNAC44 : VAQASQDLIHQSNYSHPFGGNQN------DFTFMVGNNYNHVNDH------------------MSSMRYDDKAWEDPNTRSIEIGDLDDEFKAERMVENLRWVGMSSNDLEKSFMEEH : 387
CaNAC66 : LIECSQTIINECETMSPD---------------ILGT------------------------------------------SSSCLEEDDKDDSW------------------------- : 209
CaNAC07 : NMDHEKVLNNHEHPKFPCDASSS--------DVTQGT------------------------------------------YTPTNTCNNITDDFQP------------------------ : 240
CaNAC58 : SQASHLNN--ESGYSSPVTSPQN---------------------------------------------VAPIAEFNHVSKETNPS------------------------- : 230
CaNAC62 : SQASQLCSGSESLYSSPIDFSGN---------------------------------------------VPLMAGFEQASSDTNPS------------------------- : 232
CaNAC30 : GNGGVSCSEGRNNVAQDSQSNNNKAPLDVNKLPIETQNLLAVCKR------------------ESQAEYPSPEKDDSKHMHVDEYPSPQTDNPKPLPQI-------------- : 310
CaNAC42 : APAPILPSSCHISVANDMHPTTS------GCIGLASSSYLSRVMP------------------SGVTHPSAPSNQVDDDILSMLASFKDDN------------------- : 261
CaNAC31 : QIVPVPAASGDDYVEADDLKQELETSVTVGSADPPSNFYYGECSS------------------HPQLSQTFVNDHMQLEASFGMYDPVLDQPDNMAGQYGQDTNLVQDGDYG------ : 304
CaNAC33 : DEIDEIIKEIFDVEPVPDQQYVNGYVDFPQVVGEETQSMILGQFS------------------EAVIFPEASGELQSCSQYYDVQPSFDFNQSIASPLHFSE---------- : 307
CaNAC68 : EGALEQILRQMGRGCKEENYEANCNNNYERFARPFDHTNLNN-----------------------------MNGGNYNNERFMKLPSLESPKSTSMENNE------------- : 277
CaNAC69 : EGALEQILRQMGRGCKEENYEANCNNNYGRFARPFDHTNLNN-----------------------------MNGGNYNNERFMKLPSLESPKSTSMENNE------------- : 276
CaNAC08 : EDHIMNHMRTTNAPCHNNILEPKHHHHKQ-----QQQGLLYD-----------------------------YNNNNNSFDATIHLPQLFSPES------------------- : 231
CaNAC56 : -THNHQEQQQMNINISSGTNPRSFMHRENQYLLHHQQQQNHS-----------------------------AGFEHEKPELSLHYQHLQQNSQ------------------- : 232
CaNAC59 : VSGIISRVDPIDLIIRQPQRISAQNF---LYKQEIEPEANN-----------------------------LAFMMHSDQLLVPLPQLESPSLQ------------------- : 238
CaNAC63 : ASGMSSMVDPIDLISRQPQSFLAQSFN--MCKQEIEAENNNNN-----------------------NSLISCMHADQFIQ-LPQLESPSLPL------------------- : 246
CaNAC61 : VS-LIQELESPNRVSHPYYASYQQNY---PCKQELDQLQYIN-----------------------------ILNDANFLQ-LPQLESPKVPF------------------- : 233
CaNAC32 : QHQQPHYFRDETYSTTRPLSITDIFHEGTSYSHPFSTEQQQ---------------------------FLSNQTLIMDKNLIELPQLE------------------------ : 239
CaNAC35 : VGAKKYPSSNPTRATLNPYNINLEVGPSINMQPQPMMHLG---------------------------DHSTTHFLYGRNYINTPDL------------------------- : 237
CaNAC64 : IASKK-PQQTSSSQPQSPCDTTSIVNEFGDVELHHMDYST---------------------------NNISPQNFN-TNNVNTNMN------------------------- : 209
CaNAC09 : SGSKKTKITSTTSASNNSMSLCPEPSSPSSVYLPPLLDSSP----------------------YTAGTAATAFDNRQMCTYNNNNNDNNSSN------------------- : 264
CaNAC13 : SCGKKMHIQDLVRFNS------IGKELPPLMDSSPNNSELK---------------------------STIGDSSHVTCFNQNLIEDSQRIQNDN------------------ : 233
CaNAC22 : DYGKKVHGPKLGRFDSKEGASTTNSLLPPLMDSSLYKSETK---------------------------FTTGEFSPVNSFSIPNQTQNQKTLDD------------------ : 238
CaNAC57 : SAGKKTHISGIMRLDTLGN-DLGSSVLPPLTDSSHSIGKIK---------------------------QLN-DSAYVPCFSN--SIDVQRNQGG------------------ : 309
CaNAC14 : TEIKKNSFSNLLRINSLSDDLLDFSSLPPLVDPPFS-NTIN--S--------------------PPSSSSKPPPNGNYFPSYLINNNIQNQIP------------------- : 240
CaNAC25 : TDVKKTQISGLLRMNSINDDLLDYSSLPPLMDPSYTSDELKGIT--------------------NQISSSKSQSDGYYLPSFSINNHNQLVIKPEDHNHRNYDQTQTIMNYTSN---- : 263
CaNAC38 : -VEKRNSIIQVEGGSSNISLKKGSLLPPPPLLPNPTSFSLQ---------------------------NDQLTHSHFPLHAFQTSFP------------------------- : 237
CaNAC26 : EDNNNNNNSKINTQQLMYETTHPSLTLASSSPTNQTMPSVY---------------------------NRIDSFS--SSMTTLHHLI------------------------ : 216
CaNAC29 : TDN----SAKLSPQD-MYETLPPSLTLDSLSPTNQIMPIGY---------------------------NQLASFS--SSMTTHHFHN------------------------ : 211
CaNAC11 : EIAAKP-SMGSCYDDTGSSSLPALMDSYISFDQAQFHADEY---------------------------EQVPCFSIFSQNQTNPIFNNM------------------------ : 221
CaNAC10 : AEVKQLATKRQMIHDKSSRMSSNVEFNINNQQ------------------------------------TFINFGASHENHHNNNI------------------------- : 236
CaNAC20 : NLEKDLATT---VTNSSSSKTCSLESDNSNK-------------------------------------PYLTFRDSQVVVQQN------------------------- : 223
CaNAC15 : QETTQFCSNNMS-QTKKTTLPNNFFTNNNNNTQNFDVDVD-VTTP---YKSIINPLLHKAFDHLPISN----NDLNTSLIFSSSPLETSNTNINF------------------- : 287
CaNAC70 : GNNNQFCSQNMMLLAKKPNFTSQFCATNNHNTTSSNTTLCPLNIPSYNNKPIIDPLIYTPLYKLPISNDQNLNNLSTHGLLFSSPLETSSTNCN------------------- : 296
CaNAC12 : SNTNQLCSQSNISLSTKTEQESSTIKFCSNNTNNFS-------------PSYFPNYTISKSSQIPNGD----NVVHNNIMLYNTTEATDSTKCP------------------- : 289
CaNAC36 : AAATPTPTATASINNKMHEGSCSVGNSNSDHVTTVLG---------------LSKYSTDPNYRAAEEE------EEERLMMMQQQQVQYSAGGN------------------- : 318
CaNAC03 : LMKDSSMIFSDKLNGGQDVHEVVNH-------------------------------------------KNS--GFVEYYNTS-FISFDQGE------------------------ : 262
CaNAC53 : LIKDS--VSEKTIKGQNGNQVVING-------------------------------------------KNSTNGFLDYYRSN-FISFDQG------------------------ : 266
CaNAC51 : IMKDTYENRMSERNVQDDDNIVSKN-------------------------------------------VVP---TMDYYNCDPFMNYEHV------------------------ : 283
CaNAC45 : KSVTNINGEAIEGRRDSGSGSCSNSSKEIVHHINHNHRDEMSAV--------PTPLTNFTSSLD---IQHLKNDHFGFIPFRKSFDEVGIGESCR------------------- : 308
CaNAC65 : SATTIGEGNGEPNYRDEMSNVNVN--------VNVNG---------------VTPTTSFNHTLDNVQAQQLKSDHFSFIPFRKSFYEVGIGEAST------------------- : 292
CaNAC18 : LDIPEATEATIIKVDPVTPKSVTPE-------------------------------PPYNERQYSDVDLGQETPAIPQPPQMDCLDEIQADCEEH------------------- : 291
CaNAC37 : KPLAEEPDNVTSRTSPTTPKPNPPN-------------------------------PPRTGICVENDDNIDETALLLFAEDAKSIPG-ESHAPQS------------------- : 286
CaNAC04 : SSYGSPSMEQIDSVSESNQRPANDTTLTESSGHLKMDEEDCYAEILKN------------------------DIIKLDESSMSQGAQTRPPDPANSQPCQG------------- : 290
CaNAC23 : RPVVIDFTMEDATACPPPPPMSP---------------------------------------------------------------------------------------------- : 197
CaNAC60 : VIVSTNIDDTSPNQSNQHFQVQQMQAS-----------------------------------------LSYDMDFTPQYQLSQHFQTQQMQASLLCN------------------ : 166
```

```
                 600         *       620         *       640         *       660         *       680         *       700
CaNAC01 : ------------------------------------------------------------------------------------------------------------ :   -
CaNAC49 : ------------------------------------------------------------------------------------------------------------ :   -
CaNAC48 : ------------------------------------------------------------------------------------------------------------ :   -
CaNAC17 : ------------------------------------NQSNGGHNSSNDGHNSSMVVKKEYEYKKGVEEEGVKNTCPNDIIVIALESSTDSGNENINQRPRSPIDSGNNKTEVVKT : 306
CaNAC34 : ------------------------------------------------------------------------------VWLEKNTD-------QRPRNQVDNGNNKIDVVNT : 225
CaNAC28 : ---------------------------------------------EGSQMDINVDHR-----------------------EPLLYWEHVDWFLGIEP-------------------- : 250
CaNAC55 : ---------------------------------------------GSSSTNWTLNNNDNDNDN------DNDNDNDELLLQEPLWEWECENFKWP------------------- : 272
CaNAC54 : ---------------------------------------------TKNQMNGIVKDNNKKGICGTSLQLPFGKDNVPELQLPIATDWTQDTFWAQFNSPWL-----QNWTANSNILNF : 307
CaNAC41 : ---------------------------------------------HDIQNKLAELAAQEDQ-MNFDIYYNPKEGLLDDRLFSPALVHMPQEFHYEANNESDGGCGLQYGTNEINISDF : 323
CaNAC71 : ---------------------------------------------SDAQNQIVTTAAEEDQLFNLDIFDSPQFEQLDDKLFSPVHAHFPQDFFYETNNEVE----FQYGTNETDVSDF : 321
CaNAC02 : ---------------------------------------------NMSSLSFKGSKGNNLTSEYEEGSNKVN------SQTAIPSLECYFNP-------------------LKRKSNED : 279
CaNAC27 : ---------------------------------------------SIGMSSNNEKSHASLYENNLNIIG------AQFLSSAAEGLFNP-------------------QKRKAVEE : 271
CaNAC05 : ---------------------------------------------TVATLSSQLG----GSASTSNASASKR---TLSSLYWNDHEDVAASN------------------KRFNLESD : 294
CaNAC50 : ---------------------------------------------HHEEMQNGCGSHDINSKNDNNDSFPMKRALTASSQFWNETGSPGSSS-------------------SSKRFHGD : 314
CaNAC16 : ---------------------------------------------NLLDMDYLGPISQILSDGSYNSTFEY--------QINTAHGGIIVDP-------------------FVKSQMVE : 250
CaNAC52 : ---------------------------------------------YLLDMNYFGP---ILSDG---STFDF--------QINNSN--IGIDP-------------------FVKPQPVE : 240
ANAC029 : ---------------------------------------------HLLEMDYMGP----VSHIDNFSQFDH--------LHQPDSESSWFGD-------------------LQFNQ-DE : 256
CaNAC24 : ---------------------------------------------SFLSENHSNPSGIGSSTSFNTENFNQP-----SSQINTNNNYMFQKN-------------------TSKQQLSN : 284
CaNAC06 : ---------------------------------------------QHRQEEDKLNLLNLNNNNLMDWSNPSS--------ILNT-EFQEGQN-NGMVNYSSCNDLYVPSVSTICHVNTSG : 286
CaNAC67 : ---------------------------------------------QQ---EEKLGFHNMDAGIFADWVNPTD--------LESIPEFDSDYNTQGTFNFN-FNDHTVPSVPPFGYMELTT : 281
ANAC019 : ---------------------------------------------RPDLTEQKTGFHGLADTSNFDWASFAGNV----EHNNSVPELGMSHV-----------------VPNLEYNCGYL : 277
ANAC055 : ---------------------------------------------RPVLTNHKTGFQGLAREPSFDWANLIG--------QNSVPELGLSHN-----------------VPSIRYGDG-- : 272
ANAC072 : ---------------------------------------------MNSLRTILNG-----NFDWASLAG--------LNPIPELAPTNG-----------------LPSYGGYDAFR : 272
CaNAC40 : ---------------------------------------------EHVVSPEFAS--EVQSEPK--WNEW-------------EKHLEFPYN----------------------YVDTTL : 263
ATAF1   : ---------------------------------------------EQVVSPEFTS--EVQSEPK--WKDWSAV------SNDNNNTLDFGFN----------------------YIDATV : 262
CsNAC6  : ---------------------------------------------EQVLSPEFAC--EVQSQPK--ISEWER-------TFATVGPINPAAS----------------------ILDPAG : 276
CaNAC43 : ---------------------------------------------GHVVSPDVTCDKEVQSEVK--WNEFGL-------QLD--DAFDFELN----------------------SLLDTS : 254
CaNAC47 : ---------------------------------------------EHVVSPDVTCEKEVQSEPK--WNEFVL-------GPDPVSAFDFQLN----------------------FMDDGE : 262
ATAF2   : ---------------------------------------------HGHVVSPDV---LEVQSEPK--WGELED-------ALEAFDTSMFGSS----------------------MELLQP : 248
SNAC1   : ---------------------------------------------KKESMDDATAAAAAAATIPRNNSSLFVDL------SYDDIQGMYSGLD----------------------MLPPGD : 288
CaNAC39 : ---------------------------------------------FFDFMRVHNAAPGPMITSSSSS-------------TSTEVSS---------------------------- : 218
CaNAC46 : ---------------------------------------------MFDFMMVSNKTCSSTSSSCSSSSI------------NNIEVSSNA---------------------------- : 223
CaNAC21 : ---------------------------------------------VVFYDFLSSPILSATSGITEEHNENE------------NENEHEDSS---------------------------- : 229
CaNAC19 : QKVVQIEDISCFQTIREQNGMQ-EYDQHNSNLDVN-----EFSIGFINDGDPNENFIEDGNMDDYSSSPSFYEVIEEIKVSHGLLVSTQQVAMTFFHQVVPSQIVQVQLNPKMIEKNN : 497
CaNAC44 : QKVVPIEDISSFQTNRKENEVQVESEQQNINKELNDNDIENFSMGFINDDDPNENFINEGNIDYSNSTS--YEVVEETKISHGMFVATRQVADTFFHKITPSQTIKVQLNPIME--NK : 501
CaNAC66 : ---------------------------------------------MQFITD-------------DAWYS-------------SNAAMVGGEELSHVTFT---------------------- : 237
CaNAC07 : ---------------------------------------------QFACDEAN----------SASISYP------MGIGYPSNIFQDIEIPMYGGFHNHIPEAPFMMEDLPQINIMDT : 298
CaNAC58 : ------------------------------------------------------------NFWIS--------------SDMILDSSKE---FTQVKDVVSQYFPRCD-----SPR : 264
CaNAC62 : ------------------------------------------------------------SFWLS--------------PDMILDSSKQDYSQVQVQDVVGSFPQQHDLLSAMTPW : 274
CaNAC30 : ------------------------------YKRRRHNMNSNHSNVSGDSFPNSQDPCSSTITTAATTLPTTAVTTTTTNTAPKKHFLSAL------------VEFSLLESLESKENH : 385
CaNAC42 : ------------------------------------DTSAKNENNGSEKVDNSGQ----------------------ANNAEGAPYLDPN------------EIFESLGDLDS---- : 304
CaNAC31 : ----------ELNLGENPLNFNFASDDPDLYFDATGYLTSLGEEYMETNDVENLDEISPPEIDPSVAAMLDEYLNYPAGDISKHISFDSPLSIGCESPIANPVQPFIEQNVEDEANGS : 412
CaNAC33 : ------------------------------SPELASAPDIESDFQEDGFLEINDLIDTEPTFSNTEKPVENLQFEDGLSEFDLHQDGEMLLRELGPVTGEPVSRAYMNNIGNNIEN : 393
CaNAC68 : ---------------------------NNNNNGYHAIIQENEGSFTNNHNNMVNPLETSSSSTQMVS-------GLTNWVALDRLVASQLNGQTEATRQLACFNDPTIGYCTNDHH : 359
CaNAC69 : ---------------------------NNNNNGYHAIIQENEGSFTNNHNNMVNPLETSSSSTQMVS-------GLTNWVALDRLVASQLNGQTEATRQLACFNDPTIGYCTNDHH : 358
CaNAC08 : ------------------------------------AVPPPPPTSFPSSMDILECSQNLLRLTTPAFS-------GLN----LMQQQGERFHGDWSFLDKLLASHN------GIDHH : 295
CaNAC56 : ----------------------------------YSSLFQSQ--SLLHAQKPLEVNFDYSYASSSLHS-------EQPITVKQLMTNPRDCESGSDGLRYQVSESGIEVGSCEPPRS : 306
CaNAC59 : ----------------------------------SKRQNSMSIISENN--NNDDS-------LYS----------------KIKSKEKVTDWRDLDKFVASQLS-----QEDR- : 287
CaNAC63 : ----------------------------------VKRPSIVSLVSENNDDNNDDDQKR--LLLLSNNNVTTITTTNNNNNNNNNNNQVTTDWRALDKFVASQLS-----HEDEG : 319
CaNAC61 : ----------------------------------QCSSSHNSLIQEQHIQAQQQHCQQQNMQLFS-------------------GRNDVQDWRLLDKFVASQLS-----RDIQD : 289
CaNAC32 : ----------------------------------ECNQLQHHNNEDCNEER---------------------------SNNNIVDWKSLDNLFTSQFT-----DTTT- : 280
CaNAC35 : ------------------------------VEVNRVLRSSGV---VPLPMQYSNL-----SSSPLG--------FTISGLNLN-LGGAS-TQP------STQVHDFSSNMMTT-- : 296
CaNAC64 : ------------------------------LTMNSWPSSSDVPHSLPISLPWPSS-----LLNPNN--------INVNSLLLKALQLRS-YQQQREVVAPTNIHHFAPYMSQVGV : 280
CaNAC09 : ------------------------------NTTKEHVSCFSTTSTTSNVVSCHNN-----FNNNNGS-------FDLVSPSMNAMDPFARFQRNVGVSAFPSLRSLQDNLQLP-- : 335
CaNAC13 : ----------------------------IIDSFESPILTSSYS-YSSNPYDNNISSA----SWTQNLSH-------QSTQVVNSKSSDCFMVQEQSMLRMLIEN--HGTSTKTKFEK : 308
CaNAC22 : ----------------------------IVDNNGTSILNISCSSKAIDDYPLAEAAF----AVSNQSSQ-------VAPQIGNPQYSNCFLSQEQSMLRMQLENENLESSAKQCVKA : 316
CaNAC57 : ----------------------------IFDSFTN---NNSIYGVSSNPLISTSSNP----LYSNN-NQ-------VGCNLQFP--SSVCGMQDQAILRALYENNGFKSERQQIVSV : 381
CaNAC14 : ----------------------------SYNIATNQENTFSHQP-QNQIQIQNSSS---QLQQNMLSN-------YSYNMQQGN-HNNTYIYGL---DNKECKMEQFSTNNSMVSV : 313
CaNAC25 : ----------------------------ISNSIQSNLNNPIGNTLSQPQIRIQNQNLNYFVYQQNRMQN-------VNSISSFGNNHDQAFVRPFGAKNNSECKMEQFSSNQ----- : 340
CaNAC38 : ------------------------------------ITHDMSQQNFTLQKEPNIPKTEATF-----YELYQSQ-------SIDDVVNLRWIDHINNFQSSFPLEMNDDDELIAFSS----- : 305
CaNAC26 : ------------------------------------------------------PNQN------NSSMMN--------------LLHYSRDTNPNNNNSTITQISSKGDHDGYGFLW-- : 259
CaNAC29 : ------------------------------------------------------PNVNQ-----NNSLMN--------------LLQFSKETN--TNCSSVTQISPKCD-DGYGFLW-- : 252
CaNAC11 : ------------------------------------------------------EPKLPPYNNN-----NNNNANT-------FGGAPNLGNYSLDPLSCDRKVLKAVLTQLSKMERNNPLN-- : 277
CaNAC10 : ------------------------------------------------------EDKLMINTN----------------------YTNIDQ-RNHQLMSCQVSQQPQQNVTLSNSNLWIKQQ : 281
CaNAC20 : ------------------------------------------------------ESKPFING----------------------QLDQSINYSFLSHVAHEAP---TTLSHSCFWNDHS : 263
CaNAC15 : ------------------------------------------------SKSTMDVSSMLLNMSSSMFVGDFSKTCDEDITTNFNDGLQEHFSDYSTSFLQTTFGNNQYDNNALVKINPYY : 359
CaNAC70 : ------------------------------------------------KTSSMDVSSLLLGMSSSSFL-------EGATTSNYIGSLQDHYNNNNNNGYPIMANNINPNVNVAGVNDEEL : 361
CaNAC12 : ------------------------------------------------------IDTSSIISNTN---YIG--------------LEDANNQYSNFSINLPKDIQPNIGTELEEQDWKKNPY : 340
CaNAC36 : ------------------------------------------------------STLLLPLPAACFP---------------LQNSAVSSNSSMMDDLNRLVSFNNNNQHHYCYNPNPN : 368
CaNAC03 : ------------------------------------------------------QQHRSSN-----------AQVISHFPVHD-----GTP--FIP---------------- : 286
CaNAC53 : ------------------------------------------------------NQHRDTN-----------AQVINHFPVLE-----GAPNFNIP---------------- : 292
CaNAC51 : ------------------------------------------------------GHNLESS-----------PQLISNLVMQG-----DDGSSFIRLAMDANKARLDRN--- : 322
CaNAC45 : ------------------------------------------GREIQQASGRCDEHEHEQINATTSFHMSRPSNPISTIISPPPLHHTSIILDDNSYHVSTIMLQNDHFQQQQQQH : 382
CaNAC65 : ------------------------------------------ASEVQAASRSYEEEVHERHKQQN-HHIATS----AFHISPPPLHQTSIILDENSYQVSRIMLQNEHFQQQ--QH : 359
CaNAC18 : ------------------------------------------AIDDLSMIETENNEETYDKEINADEGQKWWDSESQNLLDSQQLVEALSLCDDLLHSQSPERDDEHGEHKNQPSL : 365
CaNAC37 : ------------------------------------------DIQDQ---ENTPNPAWFAGESQAIENSEYDG--LDDILLCKEILDSFALFDDSGLDSITTNDFDYYENKMTGNG : 355
CaNAC04 : ------------------------------------TAQRRIRLRVEKSTHSQPGVRFSRTMHQSKSSSFARMTNHLMIFAFFVIALMVLFFWSLLGGHKQMKYCVKILGVNLVMSRPML : 374
CaNAC23 : ------------------------------------------------------------------------------------------------------------ :   -
CaNAC60 : ------------------------------------------MDFTPQCQLNQHFQAQEMQISLSSNIDFMPQYQHNQHFQTQQIQASLPTEIDFTPKYQVNQHFQVQQMQTPLSS : 240
```

```
             *       720         *       740         *       760         *       780         *       800         *       820
CaNAC01 : ----------DDDDDGTDQLSCLDEVFLSSLDDFDEISLPNYN------------------------------------------------------------------------------ : 201
CaNAC49 : ----------DEDGDGT-ELSCLDEVFLS-LDDLDEVSLPN---------------------------------------------------------------------------------- : 193
CaNAC48 : -----QVCYSDEDVDSGTEVSWLDEVFMSLDDDLDETSQPN---------------------------------------------------------------------------------- : 191
CaNAC17 : TKE-KEVDSIMNKEEDDNLNMSWPEYFAMELKMINEGCLIQEEEYVPMLSNSFHKDLILECFNMY---------------------------------------------------------- : 370
CaNAC34 : INTSKSKYNKVEDEEDGDQNIIEPELFAMQLKSVNEGCLIEEED-VPMISNDFYKYLLLENFYIK---------------------------------------------------------- : 289
CaNAC28 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC55 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC54 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC41 : LNSDLNWDQLPYVESGCHQQIFSLFNVKENGSGSDSDVEVANMTCMPTTYP-EEAIDRRIPCVTAPESRSTFDCSGDDDRKSKVVLLQNNFQMAYPSDGNIGEVYNVVNGNIGEVYNV : 440
CaNAC71 : FNSAVNWDEVSREASSSLELKSDLLHVKDNGSCSDSEVEMANMMHLQPLHAYPEGVTPTPQNSDAGLFYSSFFSTG---------------PTPTVVDECMGQTPAVVDESMGQTPAV : 424
CaNAC02 : DDQFENLISFTSKFNTENKIDKSFNKVLTNRELNCYEIFNGSTPNPSIDFQELNELNFAE-------------------------------------------------------------- : 339
CaNAC27 : NIEMDFYAVLNKNLSRE--VDD-VNQRLEIDLSKGYNSYNFDQWTSIIQPQELNSLAFTGYT------------------------------------------------------------ : 330
CaNAC05 : HHHGSVVRNDQESGTVATSFASLLNNLPQTPNSLHQQTMLGSIGDGLLRTTPYQIQGMNWYG------------------------------------------------------------ : 356
CaNAC50 : LNSG--NSNAEEN----NSFVSLLSQLPTTT-TFHPNAILG---DAVIR-QQFQLPNINWN------------------------------------------------------------ : 364
CaNAC16 : MATNSYAADSEKNN------VKQNSSF---NSTLFGNQVYD---HRE---------------------------------------------------------------------------- : 285
CaNAC52 : MTNHFYEADSRKY---------------------------------------------------------------------------------------------------------------- : 253
ANAC029 : ILNHHRQAMFKF----------------------------------------------------------------------------------------------------------------- : 268
CaNAC24 : IDEDTLLYQSKKYLNSSCNFPNINSQY---ENYLMKQSLLN---QQLILGPHLQFQG------------------------------------------------------------------ : 335
CaNAC06 : TEKKPMEEEVQSGGARTN-----PGLFERGSNNFTYSNSVDSFGFRYPVQPVGFGFGQ------------------------------------------------------------------ : 339
CaNAC67 : ACRKAAEEEVQSG-MRTQRVTETSGLYQHNSN-IFLSGLGDPFGFNYSGH------------------------------------------------------------------------ : 329
ANAC019 : KTEEEVES--SHGFNN-SGELAQKGYGVD---SFGYSG--QVGGFGFM-------------------------------------------------------------------------- : 317
ANAC055 : GTQQQTEG--IPRFNNNSDVSANQGFSVDPVNGFGYSGQ-QSSGFGFI-------------------------------------------------------------------------- : 317
ANAC072 : AAEGEAESGHVNRQQNSSGLTQSFGYSSS---GFGVSG--QTFEFRQ---------------------------------------------------------------------------- : 314
CaNAC40 : ------NSGFGSQFQ-SNNQMSPLQD------MFMYLP--KTF-------------------------------------------------------------------------------- : 291
ATAF1   : ------DNAFGGGG--SSNQMFPLQD------MFMYMQ--KPY-------------------------------------------------------------------------------- : 289
CsNAC6  : ------SGGLGGLG--GGGSDPLLQD------ILMYWG--KPF-------------------------------------------------------------------------------- : 303
CaNAC43 : NLSLDLDGPFGTNFEYQMNHLSPLQD------MFMYPN--KPF-------------------------------------------------------------------------------- : 289
CaNAC47 : ------DDPFAPNAQYQMNQLSGWQD------LLMYLP--K---------------------------------------------------------------------------------- : 289
ATAF2   : -------DAFVPQFLYQSDYFTSFQDPPEQKPFLNWSF--APQG-------------------------------------------------------------------------------- : 283
SNAC1   : -------DFYSSLFASPRVKGTTPRAG------AGMGM--VPF--------------------------------------------------------------------------------- : 316
CaNAC39 : -------SDQTSGYIC------------------------------------------------------------------------------------------------------------- : 227
CaNAC46 : -------PDHQQDYTHF----------------------------------------------------------------------------------------------------------- : 233
CaNAC21 : -------SSFPSLTNNN----------------------------------------------------------------------------------------------------------- : 239
CaNAC19 : HSIKNVEAMMMIMENQG-SLFRKFKAYVMGNLINPSKKIASLVVFLFSLLLMHCVYMEKEVEIWKQNLENVKEKRMRES----YEIIKWNESKEVWFVGVKSEKGLSVVLKKIGIFLT : 610
CaNAC44 : QSIENKEITLIIPKNQGNSLLRKFKANFIGYMKKPTKTMVNAIVFIFALFLVLCVYLKEQVEDWKPKPEYVKRKNCYEASNSMKRVINWNEQEKIWFIGIKSGKGFDVVLKKIGIFLT : 619
CaNAC66 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC07 : KSTLMKPEMIITDDCILYDRYRDCMNGTLEEIISLCSSQDHSMAFPML---------------------------------------------------------------------------- : 346
CaNAC58 : QS-EHTTISPSLSYSNFNSEIEFVYNPSQIGYMSPYSNQVNLMDNYGNWNVPYEGYDKLNLVSYQEPF------------------------------------------------------ : 331
CaNAC62 : QSFENTEISPSSSYSNFNAEIEFSDALSRIGCISPYSGQGSFMD------LPYECYDQIHSFGDPKKF------------------------------------------------------ : 336
CaNAC30 : TSVPPVDFDMDSLETSVPPSCAKYIKHLQSEKQKLGVEKETMRFELMSAQAMINILQSRVEIISRENEEMKRMMRNP------------------------------------------------ : 462
CaNAC42 : ----------------------LIGLDEGDGFSYGQKDEYTKNEMPSTSNVSLFCDPQHDFLELTDLEAPLF------------------------------------------------------ : 354
CaNAC31 : SLANKQVSEAQSSNEAIPTEDPEVSSWVSGDTNPFVKQANKLLASLPAAPAFASEFPTKEFALRIHPAAQSSSSAHITAGMISITDITFRGNAMDWMVGKNGGFNTIMSTGFSQTDGN : 530
CaNAC33 : QSYQLTPYPEDTN----QMVDEFWMHFERNTLSPAEGYADSFSLTNPGVVCDSVSFPSESTENRRSTVEDVSTTSRFSSALWAFVESIPTTPASAAENPLVGRALNRMSS-FSRVKIK : 506
CaNAC68 : DLQFPTLRSSSSTSSISIHAKATTS--TTTSTYITPSQDYTSEIDLWNFARSTSSLLSSSEPICHVSNTSV---------------------------------------------------- : 428
CaNAC69 : DLQFPTLRSSSSTSSISIHAKATTS--TTTSTYITPSQDYTSEIDLWNFARSTSSLLSSSEPICHVSNTSV---------------------------------------------------- : 427
CaNAC08 : ----HTLRNKCNTN-NQHGAAPSVE--TSAHKFPFHYLGCHSHHDIMKFSK-------------------------------------------------------------------------- : 339
CaNAC56 : GGDGMNEWGMLDRLVNEDSTKLGGSRFEDANNHQINQLSLRGEMDIWGYGKQ------------------------------------------------------------------------ : 358
CaNAC59 : -------CHDHTSSDMALLLLQSSRNEEENKFSSFFTTSPDCDFGICVFEKYINE---------------------------------------------------------------------- : 335
CaNAC63 : VLSSFGTNILLPNSDMALMLMQGSRDEGNK----FLNASSDCDIGICVFEK------------------------------------------------------------------------ : 366
CaNAC61 : --ASKETSSYCNVDEQIANLLENDESKKSETGQEYATSTSNSSCQIDMWK---------------------------------------------------------------------------- : 337
CaNAC32 : -------ANYFSHQNLPLMIPHSHHE---------LQSSNQANHILGCFPDS------------------------------------------------------------------------ : 316
CaNAC35 : -TTTTLGGE-NHNNNNNLG-YGGEVNINANPNGNNRYMGMEHCVDLDNYWPSY------------------------------------------------------------------------ : 346
CaNAC64 : LSHSQLGND-QSNNDSNIS-ASSSKVLECMPQHNQ----QEQPFNLDSIW-------------------------------------------------------------------------- : 324
CaNAC09 : FFFSTAAQP-YHGGDNILSGWGLPEEQKVVDTGGVVNMGGLGSSELDCMWNY------------------------------------------------------------------------ : 386
CaNAC13 : --DQEC--DFDVDISSMIYNNEMFQ-----VNQEYS---IGHLDN-GFLWNF------------------------------------------------------------------------ : 347
CaNAC22 : --DFSVGRDFDSDISSVVFGRDILQR--WFGNPELSPASTGPVVT-DSLWNF------------------------------------------------------------------------ : 363
CaNAC57 : SKETDLTTDMNAETSSVVSNFDMSRR--AFENNHHRPPPAAVDLD-GTLWNY------------------------------------------------------------------------ : 430
CaNAC14 : SQDTCLSNDINTDTSSVVSKQEIGRNTTLYEDFECP-SSIGPLSNFESLWNDY------------------------------------------------------------------------ : 365
CaNAC25 : SQDTGLSN----DTSSAVSKQDMGRNRALYEDLEGPSSSVAPLSDLECLW-DY------------------------------------------------------------------------ : 388
CaNAC38 : ------GADSNAEFRDMSTSTPFNSRLALDASVGIDSWSQPQLV---------------------------------------------------------------------------- : 343
CaNAC26 : ----------NMDLEENSLEDGVAS-NLDAIRFEVDNNNMVLL---------------------------------------------------------------------------- : 291
CaNAC29 : ----------DMDL------DGVASSNLDGMRFEVDNNSMVLL---------------------------------------------------------------------------- : 279
CaNAC11 : ----------NNNNNNNQSLKGSPSLGEGSSESYLSEVGMPHMWNNY------------------------------------------------------------------------ : 314
CaNAC10 : VENELLMFDN---------WDELGS-----VVKFAVDSPSL------------------------------------------------------------------------------ : 308
CaNAC20 : VGDDALANEN---------WDSLRS-----VVQFTFDSSKVY--DDCKYFN------------------------------------------------------------------------ : 298
CaNAC15 : YNNVNVPRVDDQDFNIG---DAWKSNLLWDTSFCPCDVPSTY-YSTTKCYT------------------------------------------------------------------------ : 406
CaNAC70 : ERERSIGFSYSMPFNVG---DAWKSSLVWDTSSCTSDEPSG--YSTTKCYT------------------------------------------------------------------------ : 407
CaNAC12 : YWET-IGRTIEFPFNLSPNYDALRENFTWDSLPCTSEMSTNYVTSVAKCYT------------------------------------------------------------------------ : 390
CaNAC36 : PNPNHLSTLLMQPATLN-SSVLPITPIPTNFSDRLWDWNPIPEDHPNPSFK------------------------------------------------------------------------ : 418
CaNAC03 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC53 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC51 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC45 : KIGGSGRSASCLEEVIMGCTSSSSDIKEVLLH-KENTIIYLFLTISCGKRERERERERERERGTLNFQYCIVFCVMMNE---------------------------------------------- : 457
CaNAC65 : KLGIGGRSTSCLEELIMGCTSTTHHIKDKEESSITNSQEAEWLKYSSYWPDPDNP-DHHG---------------------------------------------------------------- : 418
CaNAC18 : SVYAQLGPEHLKKDIEDCQNLVLDPANTAEHDAPPSELRLSQLEFSSQDSFIAWGYSKALK------------------------------------------------------------- : 426
CaNAC37 : NVTSTS---------------VLD---TLELDTPP-DFDLSNLTFCSQDSILDWMDRL-------------------------------------------------------------- : 394
CaNAC04 : LVFLLIILIITSQFEWKQQLVADVELNPAVSQKQHHISTAEETVKEKIILVQEKNIRRLNELVRHLQEQLQQCKGSNGTINSTVGPLTERILELERQQILED---------------- : 476
CaNAC23 : ------------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC60 : NMNFTSQYQLNQYFQAQQMQDSLSTDMASMPQYQPNQHSQAQTDEEYDDPFELIDFDR------------------------------------------------------------------ : 298
```

```
                 *       840         *       860         *       880         *       900         *       920         *       940
CaNAC01 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC49 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC48 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC17 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC34 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC28 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC55 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC54 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC41 : INGYEQPRNYNTVISGENGIVRRARPAQDEQWKT---FSMQGTAQRRLRLKKIEDCSNV---TVKDGSCTQEQHNSKPIIPVKKEAAESRAADESATCT---HASKQQKVSLKSIYNI : 549
CaNAC71 : VDGYEQMRNLDTVVQGDTGIRIRTRQRRNEQPITNPVMPAQGSAPRRILLGGFVTHSLVSEETTKDRSSAPVNHNSETIISREKQTSEKHAAGESATDTNINDVDELEKTSLASDDTR : 542
CaNAC02 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC27 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC05 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC50 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC16 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC52 : ------------------------------------------------------------------------------------------------------------------------ :   -
ANAC029 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC24 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC06 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC67 : ------------------------------------------------------------------------------------------------------------------------ :   -
ANAC019 : ------------------------------------------------------------------------------------------------------------------------ :   -
ANAC055 : ------------------------------------------------------------------------------------------------------------------------ :   -
ANAC072 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC40 : ------------------------------------------------------------------------------------------------------------------------ :   -
ATAF1   : ------------------------------------------------------------------------------------------------------------------------ :   -
CsNAC6  : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC43 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC47 : ------------------------------------------------------------------------------------------------------------------------ :   -
ATAF2   : ------------------------------------------------------------------------------------------------------------------------ :   -
SNAC1   : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC39 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC46 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC21 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC19 : MCLALCFMWASHSN---------------------------------------------------------------------------------------------------------- : 624
CaNAC44 : ISLAICTMWVNHIIASP------------------------------------------------------------------------------------------------------- : 636
CaNAC66 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC07 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC58 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC62 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC30 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC42 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC31 : SATLEPISDLVCSKAAFVLSHSWVFLTGFSVVVLSLSFKIGSLMYTGK------------------------------------------------------------------------ : 578
CaNAC33 : PTNIAAGNDTATVKRAGRKGVSFLFFPILIALCAFLWVSIGNLRLLGRCISP-------------------------------------------------------------------- : 558
CaNAC68 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC69 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC08 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC56 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC59 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC63 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC61 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC32 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC35 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC64 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC09 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC13 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC22 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC57 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC14 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC25 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC38 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC26 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC29 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC11 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC10 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC20 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC15 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC70 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC12 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC36 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC03 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC53 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC51 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC45 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC65 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC18 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC37 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC04 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC23 : ------------------------------------------------------------------------------------------------------------------------ :   -
CaNAC60 : ------------------------------------------------------------------------------------------------------------------------ :   -
```

```
                    *       960         *       980         *      1000         *
CaNAC01 : ------------------------------------------------------------------ :   -
CaNAC49 : ------------------------------------------------------------------ :   -
CaNAC48 : ------------------------------------------------------------------ :   -
CaNAC17 : ------------------------------------------------------------------ :   -
CaNAC34 : ------------------------------------------------------------------ :   -
CaNAC28 : ------------------------------------------------------------------ :   -
CaNAC55 : ------------------------------------------------------------------ :   -
CaNAC54 : ------------------------------------------------------------------ :   -
CaNAC41 : KISRR-VTSAGSILGLRDFLLLAKAPFRSKASPKCTLWSSVFVVSASVLVSLAVFTNIWGYIKI---- : 612
CaNAC71 : KISQQHVTTTESILEWKDSLLGRRVCYSSKISSNRAMWSSVLAVSAIVLVSLVLFVNIWGYLRIETAH : 610
CaNAC02 : ------------------------------------------------------------------ :   -
CaNAC27 : ------------------------------------------------------------------ :   -
CaNAC05 : ------------------------------------------------------------------ :   -
CaNAC50 : ------------------------------------------------------------------ :   -
CaNAC16 : ------------------------------------------------------------------ :   -
CaNAC52 : ------------------------------------------------------------------ :   -
ANAC029 : ------------------------------------------------------------------ :   -
CaNAC24 : ------------------------------------------------------------------ :   -
CaNAC06 : ------------------------------------------------------------------ :   -
CaNAC67 : ------------------------------------------------------------------ :   -
ANAC019 : ------------------------------------------------------------------ :   -
ANAC055 : ------------------------------------------------------------------ :   -
ANAC072 : ------------------------------------------------------------------ :   -
CaNAC40 : ------------------------------------------------------------------ :   -
ATAF1   : ------------------------------------------------------------------ :   -
OsNAC6  : ------------------------------------------------------------------ :   -
CaNAC43 : ------------------------------------------------------------------ :   -
CaNAC47 : ------------------------------------------------------------------ :   -
ATAF2   : ------------------------------------------------------------------ :   -
SNAC1   : ------------------------------------------------------------------ :   -
CaNAC39 : ------------------------------------------------------------------ :   -
CaNAC46 : ------------------------------------------------------------------ :   -
CaNAC21 : ------------------------------------------------------------------ :   -
CaNAC19 : ------------------------------------------------------------------ :   -
CaNAC44 : ------------------------------------------------------------------ :   -
CaNAC66 : ------------------------------------------------------------------ :   -
CaNAC07 : ------------------------------------------------------------------ :   -
CaNAC58 : ------------------------------------------------------------------ :   -
CaNAC62 : ------------------------------------------------------------------ :   -
CaNAC30 : ------------------------------------------------------------------ :   -
CaNAC42 : ------------------------------------------------------------------ :   -
CaNAC31 : ------------------------------------------------------------------ :   -
CaNAC33 : ------------------------------------------------------------------ :   -
CaNAC68 : ------------------------------------------------------------------ :   -
CaNAC69 : ------------------------------------------------------------------ :   -
CaNAC08 : ------------------------------------------------------------------ :   -
CaNAC56 : ------------------------------------------------------------------ :   -
CaNAC59 : ------------------------------------------------------------------ :   -
CaNAC63 : ------------------------------------------------------------------ :   -
CaNAC61 : ------------------------------------------------------------------ :   -
CaNAC32 : ------------------------------------------------------------------ :   -
CaNAC35 : ------------------------------------------------------------------ :   -
CaNAC64 : ------------------------------------------------------------------ :   -
CaNAC09 : ------------------------------------------------------------------ :   -
CaNAC13 : ------------------------------------------------------------------ :   -
CaNAC22 : ------------------------------------------------------------------ :   -
CaNAC57 : ------------------------------------------------------------------ :   -
CaNAC14 : ------------------------------------------------------------------ :   -
CaNAC25 : ------------------------------------------------------------------ :   -
CaNAC38 : ------------------------------------------------------------------ :   -
CaNAC26 : ------------------------------------------------------------------ :   -
CaNAC29 : ------------------------------------------------------------------ :   -
CaNAC11 : ------------------------------------------------------------------ :   -
CaNAC10 : ------------------------------------------------------------------ :   -
CaNAC20 : ------------------------------------------------------------------ :   -
CaNAC15 : ------------------------------------------------------------------ :   -
CaNAC70 : ------------------------------------------------------------------ :   -
CaNAC12 : ------------------------------------------------------------------ :   -
CaNAC36 : ------------------------------------------------------------------ :   -
CaNAC03 : ------------------------------------------------------------------ :   -
CaNAC53 : ------------------------------------------------------------------ :   -
CaNAC51 : ------------------------------------------------------------------ :   -
CaNAC45 : ------------------------------------------------------------------ :   -
CaNAC65 : ------------------------------------------------------------------ :   -
CaNAC18 : ------------------------------------------------------------------ :   -
CaNAC37 : ------------------------------------------------------------------ :   -
CaNAC04 : ------------------------------------------------------------------ :   -
CaNAC23 : ------------------------------------------------------------------ :   -
CaNAC60 : ------------------------------------------------------------------ :   -
```

Figure S1. Multiple alignment of 71 CaNACs of chickpea and well-known stress-responsive NACs from *Arabidopsis* (ATAF1/ANAC002, 019, 029, 055, 072 and ATAF2/081) and rice (SNAC1/ONAC002 and OsNAC6/SNAC2/ONAC048). Conserved NAC domain and subdomains (A-E) are indicated by thick blue line and black thin black lines, respectively, above the sequences. The putative nuclear localization signal (NLS) is shown by a blue double-headed arrow below the sequence. Putative stress-related NAC subgroup is highlighted in red-colored background, and membrane-bound CaNAC members are highlighted in turquoise-colored background.