

Supplemental table S1

Arabidopsis thaliana Hsf Sequences used in Fig 2A (Name of the gene/ATG number). Cter sequences are starting just after the RR-K/R/N motif (underlined in the sequence) ending the Dna Binding Domain of Hsf transcriptions factors as described in Konak et al., 2004.

HsfA1a|At4g17750

MFVNFKYFSFFIRTKMDGVTGGGTNIGEAVTAPPPRNPHPATLLNANSLPPPFLSKTYDMVEDPATDAIVS
WSPTNNSFIVWDPPEFSRDLLPKYFKHNNFSSFVRQLNTYGFRKVDPRWEFANEGFLRGQKHLKKISRR
KSVQGHGSSSSNPQSQQLSQGQGSMAALSSCVEVGKFGLEEEVEQLKRDKNVLMQELVKLRQQQQTDDN
KLQVLVKHLQVMEQRQQQIMSFLAKAVQNPTFLSQFIQKQTDNSNMHVTEANKKRRRLREDSTAATESNSHS
HSLEASDGQIVKYQPLRNDMMWNMMKTDDKYPFLDGFSSPNQVSGVTLQEVLPITSGQSQAYASVPSGQ
PLSYLPSTSTSLPDTIMPETSQIPQLTRESINDFPTENFMDTEKNVPEAFISPSPLDGGSVPIQLEGIPEDPEIDE
LMSNFEFLEEYMPESPVFGDATTLNNNNNNNNNNNNNNNNNNNNTNGRHMDKLIIEELGLLTSETEH

HsfA1b|At5g16820

MESVPESVSPNSNTPSIPPPVNSVPPFLSKTYDMVDDPLTNEVVSWSGNNNSFVWWSAPEFSKVLLPKYFK
HNNFSSFVRQLNTYGFRKVDPRWEFANEGFLRGRKQLLSIVRRKPSHVQQNQQTQVQSSSVGACVEV
GKFGIEEVERLKRDKNVLMQELVRLRQQQATENQLQNVGQKVQVMEQRQQQMMSFLAKAVQSPGFL
NQLVQQNNNDGNRQIPGSNKRRRLPVDEQENRGDNV ANGLNRQIVRYQPSINEAAQNMLRQFLNTSTSPR
YESVSNPDSFLLGDVPSSTSVDNGNPSSRVSGVTLAEFSPNTVQSATNQVPEASLAHHPQAGLVQPNIQS
PAQGAAPADSWSPFDLVGCETDSGECFDPIMAVLDESEGDAISPEGEGKMNELLEGVKPLPGIQDPFWEQ
FFSVELPAIADTDDILSGSVENNDLVLEQEPNEWTRNEQQMKYLTEQMGLLSSEAQRK

HsfA1d|At1g32330

MDVSKVTTSDGGGDSMETKPSQPQPAAILSSNAPPPFLSKTYDMVDDHNTDSIVSWSANNNSFIVWKPPE
FARDLLPKNFKHNNFSSFVRQLNTYGFRKVDPRWEFANEGFLRGQKHLQSITRRKPAHGQGQGHQRSQ
HSNGQNSSVSACVEVGKFGLEEEVERLKRDKNVLMQELVRLRQQQSTDNQLQTMVQRLQGMENRQQQ
LMSFLAKAVQSPHFLSQFLQQNQNESNRRISDTSKKRRFRKRDGIVRNNDSATPDGQIVKYQPPMHEQAK
AMFKQLMKMEPYKTGDDGFLGNGTSTTEGTEMETSSNQVSGITLKEMPTASEIQSSSPIETTPENVSAASE
ATENCIPDDTLTLPDFTHMLPENNSEKPPESFMENLGGSSPLDPDLLIDDSLFDIDDFPMDSDIDPVDYQ
LLERLLMSSVPDNMDSTPVDNETEQEQNGWDKTKHMDNLTQQMGLLSPETLDSL

HsfA1e|At3g02990

MGTVCESVATAKSSTAVMSSIPFLSKTYDMVDDPLTDDVVSWSGNNNSFVWVNVPEFAKQFLPKYFKHN
NFSSFVRQLNTYGFRKVDPRWEFANEGFLRGQKQILKSIVRRKPAQVQPPQPPVQHSSVGACVEVGKF
GLEEEVERLQRDKNVLMQELVRLRQQQVTEHHLQNVGQKVHVMEQRQQQMMSFLAKAVQSPGFLNQ
FSQSQNEANQHISESNKRRRLPVEDQMNSGSHGVNGLSRQIVRYQSSMNDATNTMLQQIQQMSNAPSHE
LSSNNGSFLLDVPSNINSDNGSSSNGSPEVTLADVSSIPAGFYPAWKYHEPCETNQVMETNLPFSQGDLLP
PTQGAAASGSSSDLVGCETDNGECLDPIMAVLDGALELEADTLNELLPEVQDSFWEQFIGESPVIGETDEL
ISGSVENELILEQLELQSTLSNVWSKNQQMNHLTEQMGLLTSALRK

HsfA2|At2g26150

MEELKVEMEEETVFTGVSVAASSSVGSSSSPRPMEGLNETGPPFLTKTYEMVEDPATDTVVSWSNGRNSF
VVWDSHKFSTLLPRYFKHSNFSSFIRQLNTYGFRKIDPDRWEFANEGFLAGQKHLKNIKRRRNMGLQNV
NQQGSGMSCVEVGQYGFDEVERLKRDRHGLVLAEVVRLRQQQHSSKSQVAAMEQRLLVTEKRQQQMM
TFLAKALNPNFVQQFAVMSKEKKSFLGLDVGRKRRLTSTPSLGTMEENLLHDQEFDRMKDDMEMLFAA
AIDDEANNSMPTKEEQCLEAMNVMMRDGNLEAALDVKVEDLVGSPLDWSQDLHDMVDQMGLGSEP

HsfA4c|At5g45710

MDENNGGSSSLPFLTKTYEMVDDSSSDSVVAWSENNKSFIVKNPAEFSRDLLPRFFKHKNFSSFIRQLNTY
GFRKVDPEKWEFLNDDFVGRPYLMKNIHRRKPVHSHSLVNLQAQNPLTESERRSMEDQIERLKNEKEGL
LAELQNEQERKEFELQVTTLKDRQLQHMEQHQKSIVAYVSQVLGKPGLSLNLNHERRKRFRQENSLPPSS
SHIEQVEKLESSLTFWENLVSESEKSGLQSSSMDHDAEAESSLSIGDTRPKSSKIDMNSEPPVTVTAPAPKTG
VNDDFWEQCLTENPGSTEQQEVQSERRDVGNDNNGNKIGNQRTYWWNSGNVNNITEKAS

HsfA5|At4g13980

MNGALGNSSASVSGGEGAGGPAPFLVKTYEMVDDSSSTDQIVSWSANNNSFIVWNHAEFSRLLLPTYFKHN
NFSSFIRQLNTYGFRKIDPERWEFLNDDFIKDQKHLKNIHRRKPIHSHSHPPASSTDQERAVLQEOMDKLS
REKAAIEAKLLKFKQKQVVAKHQFEEMTEHVDDMENRQKLLNPLETAIRNPTFVKNFNGKVEQLDISAY
NKKRRLPEVEQSKPPSESHLDNSSGSSRRESGNIFHQNFSNKLRLLESPADSDMNMVSHSIQSSNEEGASP
KGILSGDPNTTLTKREGLPFAPEALELADTGTCPRRLLLNDRVETLQQLTSSEETDGSFCHLNLTLAS
APLPDKTASQIAKTTLKSQELNFNSIETSASEKNRGRQEIAVGGSQANAAPPARVNDVFWEQFLTERPGSSD
NEEASSTYRGNPYEEQEERNGSMMLRNTKNIEQLTL

HsfA6a|At5g43840

MDYNLPIPLEGLKETPPTAFLTKTYNIVEDSSTNNIVSWSRDNNFIVWEPETFALICLPRCFKHNNFSSFVR
QLNTYGFKKIDTERWEFANEHFLKGERHLLKNIKRRKTSSQTQTQSLEGEIHELRRDRMALEVELVRLRRK
QESVKTYLHLMEEKLVTEVKQEMMMNFLKIKKPSFLQSLRKRNLQGIKNREKQEVISSHGVEDNGK
FVKAPEEYGDIDDQCGGVFDYGDELHIASMEHQGQGEDEIEMDSEGIWKGFLVEEMCDLVEHFI

HsfA7a|At3g51910

MMNPFLPEGCDPPPPQPMEGLHENAPPPFLTKTFEMVDDPNTDHIVSWNRGGTSFVVWDLHSFSTILLPR
HFKHSNFSSFIRQLNTYGFRKIEAERWEFANEELLGQRQLLKNIKRRNPFTPSSSPSHDACNELRREKQVL
MMEIVSLRQQQTTKSYIKAMEQRIEGTERKQRQMMSFLARAMQSPSFLHQLLKQRDKKIKELEDNESAK
RKRGSSSMSELEVLALQMGGHKKQRNMLEEEDHQLVVERELDDGFWEELLSDESLASTS

HsfA8|At1g67970

MVKSTDGGGGSSSSSVAPFLRKCYDMVDDSTTDSIISWSPSADNSFVILDTTVFSVQLLPKYFKHSNFSSFI
RQLNIYGFRKVDADRWEFANDGFVRGQKDLLKNVIRKINVQSSEQSKHESTSTTYAQEKSLWKEVDILK
GDKQVLAQELIKVRQYQEVTDTKMLHLEDRVQGMEESSQEMLSFLVMVMKNPSLLVQLLPKEKNTWR
KAGEGAKIVEEVTDEGESNSYGLPLVITYQPPSDNNGTAKSNSNDVNDFLRNADMLKFCLDENHVPLIIPDL
YDDGAWEKLLLLSPSRKKTKKQENIVKKGKDDLTLEEEEDGTMELDKSYMLKLISEEMEKPDDEFEGQL
TPERSRNLEILTEQMELLASNE

HsfA9|At5g54070

MTAIPNVVDIESSSSSLCQETATETVTVERGSSDSSSKPDDVLLIKEEEDDAVNLSLGFWKLHEIGLITPFLR
KTFEIVDDKVTDPVVSWSPTRKSFIIWDSYEFSENLLPKYFKHKNFSSFIRQLNSYGFKKVDSDRWEFANE
FQGGKHLKLNKIKRRSKNTKCCNKEASTTTTETEVEESLKEEQSPMRLEMLKQKQEEESQHQMVTVQEKI
HGVDTEQQHMLSFFAKLAKDQRFVERLVKRRKMKIQRELEAAEFVKKLKLQDQETQKNLLDVEREFMA
MAATEHNPEPDILVNNQSGNTRCQLNSEDLLVDGGSMVDVNGRIEIE

HsfB1|At4g36990

MTAVTAAQRSVPAPFLSKTYQLVDDHSTDDVVSWNEEGTAFVWVWKTAEFAKDLLPQYFKHNNFSSFIRQL
NTYGFRKTVDPKWEFANDYFRGGEDLLTDIRRRKSVIASTAGKCVVVGSPSESNSSGGDDHGSSSTSSPG
SSKNPGSVENMVADLSGENEKLKRENNLSSELAACKQRDELVTFLTGHLLKVRPEQIDKMIKGGKFKPV
ESDEESECEGCDGGGGAEEGVGEGKLVFGVWLKGERKRRDRDEKNYVVSRSRMTEIKNVDFHAPLWKSS
KVCN

HsfB2b|At4g11660

MPGEQTGETPTVAGVGGGGAGCSAGNSGGSSGCGAGGGGGGGSGGGGGGGGDSQRSIPTPFLTKTYQLVE
DPVYDELISWNEDGTTFIVWRPAEFARDLLPKYFKHNNFSSFVRQLNTYGFRKVVDPDRWEFSNDCFKRGE
KILLRDIQRRKISQPAMAAAAAAAAAAAAVAASAVTVAAVPVVAHIVSPSNSGEEQVISSNSSPAAAAAIGG
VVGGGSLQRTTSCTTAPELVEENERLRKDNERLRKEMTKLKGLYANIYTLMANFTPGQEDCAHLLPEGKP
LDLLPERQEMSEAIMASEIETGIGLKLGEDLTPRLFGVSVGKRARREEELGAAEEEDDDRREAAAQEGEQS
SDVKAEPMEENNSGNHNGSWLELGK

HsfB3|At2g41690

MEDAGEHLRCNDNVNDEERLPLEFMIGNSTSTAELQPPPPFLVKTYKVVEDPTTDGVISWNEYGTGFVWV
QPAEFARDLLPTLFKHCNFSFVRQLNTYGFRKVTIRWEFSNEMFRKQGRELMSNIRRRKSQHWSHNKSN
HQVVPTTTMVNQEGHQIRIGIDHHHEDQSSATSSSFVYTALLDENKCLKNENELLSCELGKTKKKCKQLM
ELVERYRGEDEDATDESDEEDEGLKLFVVKLE

HsfB4|At1g46264

MAMMVENSYGGYGGGGGERIQLMVEGQGKAVPAPFLTKTYQLVDDPATDHVVSWGDDDTTFVWRPP
EFARDLLPNYFKHNNFSSFVRQLNTYGFRKIVPDRWEFANEFFKRGEKHLLEIHRKTSQMIPQQHSPFMS
HHHAPPQIPFSGGSFFPLPPRVTTPEEDHYWCDDSPSRPRVIPQQIDTAAQVTALSEDNERLRRSNTVLMS
ELAHMKKL YNDIIFVQNHVKPVAPSNNSSYLSSFLQKQQQQPPTLDYNTATVNATNLNALNSSPPTSQ
SSITVLEDDHTNHHDQSNMRKTKLFGVSLPSSKRSRSHHSDQTSKTRLVLDQSDLALNLMTASTR