

## Supplementary data

**Table S1: Constructs with primers and cloning procedures**

It is essential to clarify the nomenclature of functional and non-functional versions of the Hsf consensus binding sites (Nover, 1987; Nover, 1991; Scharf et al., 2001), which comprise at least two palindromic modules of 5 nucleotides: aGAAnnTTCt. The first half is called the head module (H), whereas the second is called the tail module (T). The exact pattern of the nucleotides and the presence of the invariant G and C residues (underlined) are essential. In addition, for a functional module at least one of the two nucleotides indicated by large case letters (AA, TT) must be present. The flanking adenosine and thymine residues (a, t) are frequently found but are not essential. Clusters of HSE modules, which mediate Hsf binding, are defined by an uninterrupted pattern of several modules (see example in construct no.1). The pattern must be precise, but not all modules of a cluster need to be functional. The nomenclature system is best illustrated by the example of the TATA distal HSE cluster in construct 1.

No	Promoter-leader fragment	Putative HSE configuration (underlined; x, any nucleotide) of promoter with <b>TATA</b> box and start codon (ATG) (gene accession number) sequence
<b>Gus reporter constructs</b>		
1	<i>GmHsp17*-GUS</i>	Fragment of soybean Hsp17.3B-CI promoter (Schöffl et al., 1984; Treuter et al., 1993) HSE configuration: 20x THtHtHT 42x HTH 33x <b>TATA</b> box aagcttgatccgtcgaaga <u>agtc</u> cagaatgtttctgaaagttc <u>agaaaattct</u> agttttgagattttcagaagtacggcatgatgatg cataaca <u>aggactttctcgac</u> ctgcagtctagagtcgaccgcaag acccttcctc <b>TATAT</b> aaggaagttcatttcatttgagaggacac gctcgagtggccaccATG

### MycHsp17.6A-CI reporter constructs

For the MycHsp17.6A-CI reporter plasmids, promoter fragments were amplified from Arabidopsis genomic DNA using sequence specific primers and cloned into pRT104-MycHsp17.6A-CI (Kirschner et al., 2000).

2	pRT104-Myc Hsp17.6A-CI	Kirschner et al., 2000
3	CaMV35S promoter	<p>Potential ASF-1/2 binding motifs are bold-faced and HSEs are underlined:            97x HT 6x HTHtH 91x TH 42x HTHtHT 29x HT 16x HT            14x HT 2x <b>TATA</b> box</p> <p>aagcttgcacgctgcagggtcaacatgggtggagcagcagcactctcgtct            actccaagaatatcaaagatacagtcctcagaagaccagagggctattga  <u>gacttttcaacaaagggtaatatcgggaaacctcctcggattccattgc</u>            ccagctatctgtcacttcatcgaaaggacagtagaaaaggaagatggct            tctacaaatgccatcattgcgataaaggaaaggctatc<u>gttcaagaatg</u>            cctctaccgacagtggtcccaaagatggacccccaccacgaggaacat  <u>cgtggaaaaagaagacgttccaacc<b>acgt</b>cttcaaagcaagtggatt<b>ga</b></u>  <u><b>tgtgata</b>tctccactgacgtaagggatgacgcacaatcccactatcctt</u>            cgcaagacccttcctc<b>TATATA</b>aaggaagttcatttcatttggagaggac            ctcgagaattcgagctcgggtaccggccgagagaaagagggggATG</p>
4	AtAct2 (actin2) promoter	<p>6x THtH 15x HtH 30x HTHH 48x TH 116x TH 31x HT            11x TH 5x TH 190x <b>TATA</b> box, (At3g18780)</p> <p>aagcttatgcatgcaagagtcagcatatgtataattgattcagaatcgt  <u>tttgacgagttcggatgtagtagtagccattatttaatgtacatactaa</u>  <u>tcgtgaatagtgatgatgaaacattgtatcttattgtataaatatcc</u>            ataaacacatcatgaaagacacttttctttcacgggtctgaattaattatg            atacaattctaatagaaaacgaattaaattacggttgaattgtatgaaat            ctaattgaacaagccaaccacgacgacgactaacg<u>ttgcctggattgac</u>            tcggtttaagttaaccactaaaaaacggagctgtcatgtaacacgcgg  <u>atcgagcaggtcacagtcatgaagccatcaaagcaaaagaactaatcca</u>            agggctgagatgattaattagtttaaaaattagttaacacgagggaaaa            ggctgtctgacagccaggtcacggttatctttacctgtggctgaaatgat            tcgtgtctgtcgattttaattatTTTTTgaaaggccgaaataaagtt            gtaagagataaaccgccc<b>TATATA</b>aattcatatatTTTTcctctccgctt</p>

		tgaattgtctcgttgctcctcactttcatcagccgttttgaaatctcc ggcgacttgacagagaagaacaaggaagaagacctcgagtggccacATG
5	AtHsfC1 promoter	30x HT 133x THtH 50x THtHTH 17x HT 13x ThTHHtHT 44x TH 167x TH 115x <b>TATA</b> box (At3g24520, Nover et al., 2001) cagctgttttaagttaaaatctgaatacacagcatgttccttctaacgt tttttaacataattgtaaactaaagaaaaattataatataataaattaa attataccctctctattcattgtagaagatttgtttgtttcaccaaag tgttttttttttataagttgctctcactcttgagagttttggagatatt tgaagaggacgaggttcttttgtaaaaagtgaagaaacaaatcatgt <u>caagaattagaaagaaatcatgacaaataattttgtttgtagaaatt</u> <u>acaaatgaatcatagatatccttctaattcgggatcggaaaccagttga</u> <u>aaaatcgatggactaagctttctatattgggactagcttacccttagaa</u> <u>ttagtcaagcagcttaaatcatctatgacttaaaattataattaagaaa</u> aaacaatgcctaaatatgcatatatttcaaagtatcacataacttg acataagaaaatataaacaacaaaaggcaaaaagacctgaaagc ttagaggcacacctgcataggtcccacagttcactcgtgacaccgtaaa aggcaaacacgaaccgccagttatcacaaaagcaagccacgtcaa tatagtctcactgtcaactaacttaacttactatttcacatctcatt ttcctatcttt <b>TATATA</b> aaccctccaggtcctctttaatttctttacca ccaccaacaacaacatataaaccataaggaaaacagagctcgagtggc caccATG
6	AtDnaj promoter	46x HTH 58x TH 16x TH 16x THtH 13x TH 118x HT 111x TH 2x HT 5x HT 281x TH 72x HT 10x <b>TATA</b> box (At4g36040) gtcgacttttcttctatttgatgtagcaaaagaaaaataaac <u>cg</u> <u>ctttccttgattataacattgacaaccattagtaattctattataataag</u> atacatttgaaaacatttatattacttgatcatttgatattttatcgtaa <u>tctcgtacaaacaccgtagttggtatcatgaaattctgtgagctaaga</u> aaacaatttctcacgaatcaaatttgcagattaccattggctttttata ttccattcctatagtaagaaaataataaagcacataaatataaaaa aatgtttgatggtggaggcaatctttaatacagtagagacttttctc aatcttctaaaaatctatttctgtcttctcaatatccaacaacaatac atggtccaaattacgtctccatacaccaattatattttttataaataaa

		<p>agaaaaaaaaat<u>ctactc</u>gtaata<u>agaagatt</u>ctaattt<u>cg</u>aatttcca  ccttaaaataactcttctgctaagaaaattaaaaaaaaaaaaaatgat  aaataactaaaaacaaaacgtgattagtatttctgtgcaaattaaata  ttggattcctttggcattaatatatttttgtaagaatatgttaaaatga  caattacagccacagaacaatttggccactatgaataatatcttacgta  ctacattcttatctcttctgcaattatttccccaaactggataagccttt  tttatctgactcagatcacaggatccgacccgactttt<u>accgacccg</u>t  aacttaatcccctatatccgtttttagtatgtaattaataaactattcaa  aatcttaattaaccaattaat<u>gactaat</u>cgctcttcgccc<b>TATAAAT</b>ta  aaccctccattacctttcttcttcaatctttccctctcctcctcgaac  aaaacaacaacgcagagaaactcaaaactcgaaaacgtttcctcgag  tggccaccATG</p>
7	AtHsc70 promoter	<p>177x THtH 8x HtH 10x HT 43x HT 31x HT 95x HTH 50x  HT 2x HT 18x <b>TATA</b> box (At5g02500)</p> <p>aagctttgaaatagaagaaaaagcctttttccttttgacaacaacatat  aaaatcatactcccattaaaaagattttaatgtaaaattctgaatataa  gatattttttacaacaacaacaaaaatatttatttttttctttttta  cagcaacaagaaggaaaaactttttttttt<u>gtcaagaaaaggggagatt</u>  atgtaaac<u>agataaaaacagggaaa</u>ataactaac<u>gaactctct</u>taatta  acatcttcaaataaggaaaattatgatccgcatatttaggaagatcaat  gcattaaaacaacttgcacgtggaaagagagactata<u>cgctcc</u>acacaa  gttgcactaatggtacctctcacaaccaatcaaaatactgaataatgc  caacgtgtacaaattagggttttacctcacaaccat<u>cg</u>aacattct<u>cg</u>a  <u>acatttt</u>aaacagcctggcgccatagatctaaactctcatcgaccaat  tttt<u>gaccgtccgatgg</u>aaactctagcctcaaccctaaactc<b>TATATA</b>a  agaaatctttccttcgttattgcttaccatacaaaccttagccgcc  ttattcgtcttcttcgttctctagttttttcctcagtctctgttcttag  atccctttagtatttccaaatctcgagtggccaccATG</p>
8	AtHsp70 promoter	<p>129x TH 78x HtHtHtHtHtHtH 17x HtH 47x THtHTHT 82x  HT 2x HT 108x THTH 54x THT 20x <b>TATA</b> box  (At1g16030)</p> <p>aagcttaaagcaatcgagttaaaacgagaaattcagtttctttaattct  cacagagaacctcagagatgaactatactaccgagcatttctctgggt  ttcgtcggacaagctgtagatgattaccagat<u>cg</u>ggaactcaataat</p>

		<p>ctgaatatcaacatcaaaacaaaaaggctaaaattaactgaaaaatc  cactagcaaccagggttatgaaagaaagtttttagtaccataggagacgc  agagtgagagttggatcagaaatgagatcgacagagttattgttacgga  ccacgtgaaatccgaagatcagaaataaccagtaatcacataaacgc  aaaagcccccaagttgatatcgtgataactaacggagatttctggattc  ttcttctccttcgcctctttcatggcttttcttctcgtcttcgaaat  cacagaacaagtgaagaaagaagacgtaaacaaaatattgaaaatcctc  cagaacttacactgggccttttattctatatacgggcctacaagtttat  accatatgggctttaataggccatttaattatcaagcggtcgccggag  ataaaatatatcccggtcggatccagaactctcttgtagcgtttgagc  cgatttctccacctttccacaatcccctgggttggtgccacgacctttt  tctcgaaatgtctcgttcctctcgtcggattcg<b>TATATA</b>tagcttcttc  catcgtttccgattcttcatcaaacagataaacaacaaaagaaatcga  aaaacctcacttccaatttcattcaattactcgagtgccaccATG</p>
<b>pRT based reporter constructs containing Ds-Red/Gfp as reporters</b>		
9	<i>AtHsc70</i> <i>P/L-DsRED</i>	Subcloning of SalI-XbaI fragment of Ds-red ORF (clonetech) into pRT- <i>AtHsc70-P/L-MycHsp17.6ACI</i>
10	<i>AtHsp70</i> <i>P/L-GFP</i>	Subcloning of NcoI-XbaI fragment of Gfp ORF (clonetech) into pRT- <i>AtHsp70-P/L-MycHsp17.6ACI</i>
<b>pRT based Hsf expression plasmids</b>		
11	LpHsfA1	Treuter et al., 1993
12	LpHsfA1-M5 (R93>D) (DNA binding mutant)	<p>1.F:5'-gacgcacaatcccacta-3'  1.R:5'-cagctgggtcgacaaagctggaaaagttattatgc-3'  2.F:5'-agctttgtcgaccagcttaataacttatgg-3'  2.R:5'-cctgaagagtgactcctgaaacacg-3'</p> <p>(PCR amplification of 5' fragment of HsfA1 with mutation of R93 using primers 1.F and 1.R; triple ligation of 5' fragment with 3' fragment (Pr. 2.F-2.R) into pRT101)</p>
13	LpHsfA1 $\Delta$ HRA/B	HsfA1 without oligomerization domain (aa 23-161,VD,239-527) generated by subcloning of SalI-XbaI fragment of pRTHsfA1.71 into pRTHsfA1.8 (Mishra et al., 2002)
14	LpHsfA1-M3	NLS mutant of HsfA1 (Lyck et al., 1997)

15	LpHsfA1ΔC394	HsfA1 with deletion of C-terminal activation domain (Treuter et al., 1993)
16	LpHsfA1-A7	Inactive HsfA1 with hepta alanine substitutions of aromatic and hydrophobic residues in AHA1 and AHA2 motifs (451-IDWQSGLL 12aa DPFWEKFL->451-IDAQSGAA 12aa DPAAEKAA) (Döring et al., 2000)
17	LpHsfA1 (aa23-394) xGal4AD(aa768-881)	F:5'-tgggtgctagcgc <u>ccaattt</u> taatacaagtg <sup>3'</sup> R:5'-gtatctacgattcatagatctctgc-3' PCR amplification of Gal4AD using the indicated forward and reverse primers and cloning into pRT-LpHsfA1c394 via NheI-XbaI
18	LpHsfA1 (aa23-394) xVP16(aa412-490)	F:5'-gactggctagcaccgccccattaccgacg-3' R:5'-cacacattattctggag-3' PCR amplification of VP16AD using the indicated forward and reverse primers and cloning into pRT-LpHsfA1c394 via NheI-XbaI
19	Gal4DBD(aa1-147)xLpHsfA1-CTD(aa314-527)	F:5'-cctgaaagtttctc <u>gagtggtgatg</u> ttca-3' R:5'-atatagagcggc <u>cgcttg</u> cg <sup>3'</sup> PCR amplification of LpHsf C-terminal fragment using the indicated forward and reverse primers and cloning into pBI-Gal4DBD via XhoI-NotI
20	LpHsfA2	Treuter et al., 1993
21	LpHsfB1	Treuter et al., 1993
22	LpHsfB1-M4 (KH(54,55)>EL)	DNA binding mutant (Boscheinen et al., 1997)
23	LpHsfB1ΔHRA/B	HsfB1 without oligomerization domain (aa 1-142, VD,214-301) F:5'-tccagcgc <u>tcgacgag</u> ttggtcaaggaggttg-3' R:5'-cacacattattctggag-3' Cloning of the PCR product into pRTHsfB1.25 (containing a unique SalI site at 144,145) via SalI-XbaI.
24	LpHsfB1ΔNLS	HsfB1 without NLS motif (aa 1-213,VD,268-301)

		<p>F:5′-gagaat<u>gtcgcac</u>acttgtggtggacgtgg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>Cloning of the PCR product into pRTHsfB1.26 (containing a unique SalI site at codons 213,214) via SalI-XbaI.</p>
25	LpHsfB1ΔCC198	Treuter et al., 1993
26	LpHsfB1ΔC294	Treuter et al., 1993
27	LpHsfB1ΔC286	Treuter et al., 1993
28	LpHsfB1ΔC274	Treuter et al., 1993
29	LpHsfB1 (WM286/7>SR)	<p>F:5′-ggactataatggtcc<u>ctcgcag</u>gaaaatgtcttcg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via XhoI-XbaI</p>
30	LpHsfB1 (Y282>A)	<p>F:5′-atgaaaactg<u>tcgcacg</u>ctaattggtccttgg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via SalI-XbaI</p>
31	LpHsfB1 (GK274/5>VD)	<p>F:5′-acttgtggtggacgtg<u>tcgcac</u>atgatgaaaactgtg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via SalI-XbaI</p>
32	LpHsfB1 (K275>Q)	<p>F:5′-gagaat<u>gtcgcac</u>acttgtggtggacgtgg<b>ccag</b>atgatgaaaaac-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via SalI-BamHI</p>
33	LpHsfB1Δ272- 279	<p>F:5′-aaaactg<u>tcgcac</u>tataatggtccttgg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>Cloning via SalI-XbaI into pRTB1.23, containing a unique SalI site at 271,272</p>
34	LpHsfB1 (GRGK272- 275>LWTT)	<p>F:5′- gagaatg<u>tcgcac</u>acttgtggt<b>ctttggac</b>tac<b>cc</b>atgatgaaaactgtgg-3′</p> <p>R:5′-cacacattattctggag-3′</p> <p>PCR mutagenesis of C-terminal fragment of HsfB1</p>

		in pRT-LpHsfB1, cloning via SalI-XbaI
35	LpHsfB1 (GRGK272-275> GKGR)	F:5'-gagaatg <u>tcgacac</u> acttgtggtgga <b>aaagg</b> tcgaatgat gaaaactgtgg-3' R:5'-cacacattattctggag-3' PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via SalI-XbaI
36	LpHsfB1 (K278>R)	F:5'-acttgtg <u>tcgaccg</u> cggtaaaatgatg <b>cg</b> tactgtgg-3' R:5'-cacacattattctggag-3' PCR mutagenesis of C-terminal fragment of HsfB1 in pRT-LpHsfB1, cloning via SalI-BamHI
37	LpHsfB1 (aa1- 198)xNtHsfB1 (aa204-298)	F:5'-tgatc <u>gctagc</u> atcattagccaaggaacctc-3' R:5'-atttggct <u>tagatc</u> ttcagttacagaccttggtac-3' PCR amplification of NtHsfB1 CTD using the indicated forward and reverse primers and cloning into pRT-LpHsfB1c198 via NheI-XbaI
38	LpHsfB1 (aa1- 198)xGmHsfB1 (aa204-282)	F:5'-agatc <u>gctagc</u> atcatgcggcaaggaag-3' R:5'-gagcct <u>ctagatt</u> cagttgcaaaccctggtg-3' PCR amplification of GmHsfB1 CTD using the indicated forward and reverse primers and cloning into pRT-LpHsfB1c198 via NheI-XbaI
39	LpHsfB1 (aa1- 198)xAtHsfB1 (aa200-284)	F:5'-ccggaag <u>ctagcg</u> ataaaaatgadc-3' R:5'-cacacattattctggag-3' PCR amplification of AtHsfB1 CTD using the indicated forward and reverse primers and cloning into pRT-LpHsfB1c198 via NheI-XbaI
40	Gal4DBD(aa1- 147)xLpHsfB1- CTD(aa200- 301)	F:5'-gttgcaccggata <u>agatc</u> taccgtatcatgagcc-3' R:5'-attagag <u>cgccgct</u> cagttacaaaccttgctg-3' PCR amplification of C-terminal fragment of LpHsfB1 using the indicated forward and reverse primers and cloning into pBI-Gal4DBD via BglII- NotI
<b>pRT based vectors containing Human and At-CBP and TGA constructs</b>		
41	HsCBP	Subcloning of SacI-NdeI fragment from pcDNA3-CBP (kindly provided by M. Rosenfeld, UCSD) into



		pRT101
42	AtCBP (HAC1)	1.F:5'-gcctaaggcaagactcgcgagaaaaag-3' 1.R:5'-aatttcccgggcctagggttacctgcaacgaggtacatggc-3' (XhoI/BlnI-XbaI/At-cDNA/pRT101)=pRT101-fragCTD 2.F:5'-ggggcaggtgtcgaccctaggactatgtcgggg-3' 2.R:5'-ctttttctcgagtcttgccttaggc-3' (XhoI/At-cDNA/pRT101-fragCTD)
43	HAC1-NTD (aa1-988)	F:5'-ggggcaggtgtcgaccctaggactatgtcgggg-3' R:5'-gtcgccccgggattccctagggttatggaatacaaaaagtaatg-3' PCR amplification of At-cDNA using the indicated forward and reverse primers and cloning of PCR products into pRT101 via BlnI-XbaI
44	HAC1-CTD (aa984-1654)	F: 5'-caccgtaggagcgtcgaccctaggatgtacttttgtattcc-3' R: 5'-aatttcccgggcctagggttacctgcaacgaggtacatggc-3' PCR amplification of At-cDNA using the indicated forward and reverse primers and cloning of PCR products into pRT101 via BlnI-XbaI
<b>pJC based bacterial vectors for expression of N and C-terminal His tagged proteins</b> (Clos and Brandau, 1994)		
47	LpHsfA1 - CHis6	Subcloning of EcoRI-ApaI fragment from pRT101-HsfA1LS into pJC20
48	LpHsfB1- CHis6	F: 5'-aagaggcatatgtcgcaagaacagcg-3' R: 5'-catagggatccacgcggaaccaagttacaaaccttgcgtgctt-3' PCR amplification of B1 cDNA using the indicated forward and reverse primers and cloning of PCR products into pJC40 via NdeI-XbaI
49	NHis6-At HAC1NTD	F: 5'-ggggcaggtgtcgaccctaggactatgtcgggg-3' R: 5'-gtcgccccgggattccctagggttatggaatacaaaaagtaatg-3' PCR amplification of At-cDNA using the indicated

		forward and reverse primers and cloning via SalI/XhoI-XbaI
50	NHis6-At HAC1CTD	F: 5'-caccgtaggagcgtcgacc <u>cctaggat</u> gtacttttgtattcc-3' R: 5'-aatttcccggg <u>cctagg</u> ttacctgcaacgaggtacatggc-3' PCR amplification of At-cDNA using the indicated forward and reverse primers and cloning via BlnI-XbaI
<b>pβstop based vectors for in vitro transcription</b>		
pβstop based vectors containing WT and mutant HsfB1 for in vitro transcription-translation (vector kindly provided by Mr. Michael Jantzen, UC Berkely)		
51	LpHsfB1	Subcloning of XhoI-XbaI fragment of pRT-HsfB1 into pβstop
52	LpHsfB1 Δ272-279	Subcloning of XhoI-XbaI fragment of pRT-HsfB1Δ272-279 into pβstop
<b>pcDNA3 based animal expression vectors</b>		
All Hsf encoding fragments from the corresponding pRT vectors were cloned via XhoI/XbaI into pcDNA3		
53	LpHsfA1	Heerklotz et al., 2001
54	LpHsfA1-M5	Subcloned from construct no. 12
55	LpHsfA1-A7	Subcloned from construct no. 16
56	LpHsfB1	Subcloned from construct no. 21
57	LpHsfB1-M4	Subcloned from construct no. 22
58	LpHsfB1Δ272-279	Subcloned from construct no. 33
59	LpHsfB1 (GRGK272 - 275> GKGR)	Subcloned from construct no. 35
60	HsCBP	pcDNA3-HsCBP plasmid was kindly provided by M. Rosenfeld, UC San Diego
61	HsFlagCBP	pcDNA3-HsFlagCBP plasmid was kindly provided by E.Pfitzner, Georg Speyer Haus, Frankfurt
62	pGmHsp17-	Luciferase reporter for mammalian cells with

	<i>LUC</i>	plant Hsp17.3B promoter fragment; Heerklotz et al., 2001
<b>Vecotrs containing inverted repeats</b>		
Parts of the ORFs, were cloned into pJawohl vectors using the "Gateway Technology" (Invitrogen). Cloning into pJawohl vector creates inverted repeats of the same domain separated by a neutral intron. This inverted repeat containing vector when transformed into protoplasts generates sequence specific dsRNA.		
63	pIR-AthHAC1	HAT domain (aa 1173-1611) of At-HAC1
64	pIR-LpHsfA1	CTD (aa 351-527) of Lp-HsfA1
65	pIR-LpHsp 17CII	Full length ORF of Lp-Hsp17CII
<b>Probes used for EMSA</b>		
66	GmHsp17.3B- CI-WT	THtHtHT50x <b>TATA</b> box tacgccaagcttggatccgctcgaaga <u>agtccagaatg</u> tttctgaaagtt <u>tcagaaaattctag</u> ttttgagattttcagaagtacggccggtcgaccgc aaaacccttactc <b>TATAT</b> aagg
67	GmHsp17.3B- CI-mutant	thtHtHT50x <b>TATA</b> box tacgccaagcttggatccgctcgaattc <u>g</u> ttttaaagtgtttaatattggt <u>tcagaaaattctag</u> ttttgagattttcagaagtacggccggtcgaccgc aaaacccttactc <b>TATAT</b> aagg