Supplementary Table 1

Syntenic Relationships Among *hsp70* Genes in *C. elegans* and *C. briggsae*

Gene name	Linkage Group in *C. elegans*	40-kb region in *C. briggsae*	5-Mb region in *C. briggsae*
hsp70-1	IV	48	IV
hsp70-7	II	-	III
hsp70-8	II	-	III
hsp70-12~hsp70-15	II	-	III
hsp70-21	II	-	III/X
hsp70-9	I	47	I
hsp70-9, hsp70-16~20	I	48	I
hsp70-3	X	90	X
hsp70-4	II	82	II
hsp70-6	V	61	V
hsp70-10	III	-	II
hsp70-11	II	76	II
hsp110-1	III	80	III
hsp110-2	II	82	II
hsp110-3	X	62	X

NOTE.–The third column shows the percentage of shared orthologous genes between *C. elegans* and *C. briggsae* for a 40-kb genomic region surrounding each Hsp70 gene. The fourth column shows a homologous genomic region of 5Mb (data from Wormbase; Harris et al. 2003); dash (-), clones are on different chromosomes.

Supplementary Table 2

Putative Regulatory Elements in the Promoter Regions of Some *hsp70* Gene Pairs Between *C. elegans* and *C. briggsae*

Gene pairs	Identity (%)	GC (%)	nGAAn motifs		ERSEs motifs	
			2[a]	3[b]	I	II
hsp70-1/hsp70-1	58	37/38	1/2	1/1	–	–
hsp70-3/hsp70-3	67	51/44	–	–	3/3	–
hsp70-4/hsp70-4	53	42/40	0/1	1/0	–	2/2
hsp70-7~8/hsp70-7~8	45	44/41	2/4	3/4	–	–
hsp70-9/hsp70-9	30	35/44	1/0	1/3	–	–
hsp110-1/hsp110-1	71	33/36	–	2/2	–	–
hsp110-2/hsp110-2	51	34/35	–	1/1	2/1	0/1
hsp110-3/hsp110-3	36	32/35	–	–	2/0	–
hsp70-7-8/hsp70-16	45	44/41	2/5	3/3	–	–
hsp70-7-8/hsp70-14	47	44/42	2/2	3/3	–	–

NOTE.–First number is for *C. elegans* and second for *C. briggsae*. [a] Two inverted repeats nGAAn motif (unit of heat shock element-HSE), and [b] three repeats. ERSE, endoplasmic reticulum stress elements type I and type II. Dash (–) indicates that no putative HSE or ERSE was found.

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Cel-hsp70-1  ATG --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- AAG ACC TTA TTC TTG TTG
Cbr-hsp70-3  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- AAG ACC TTA TTC TTA TTG
Cel-hsp70-4  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- AAA --- GTT TTC TCG TTG
Cbr-hsp70-4  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- AAA --- GTT TTC TCG TTT
Cel-hsp70-6  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- CTT TCC GCA CGA
Cbr-hsp70-6  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- CTT TCT GCA CGA
Cel-hsp70-7  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 ... GCA GGC GCA ACG GGA TCA TTG CTA GGT AAT TTT CAA AGA ATG ATT CGT ATT AAA TTG TCA AAG AAA AGT TAT TTT
Cbr-hsp70-11 ... GCA GGC TCC ACA GGC TCT TTT ATA --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-2 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-3 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-3 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-12 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- AGT AAG CAT
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ... ... ..C
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- .A. .CA ..A
Cel-hsp70-3  GGC TTG ATC GCC CTA TCC GCC GTC AGT GTC TAC TGC GAG GAA GAG GAA AAA ACC GAG AAG AAG GAG ACC .AG T.T GGA
Cbr-hsp70-3  GGC CTC ATC GCC CTC ACC GCC GTC AGT GTC TAC TGC GAG GAA GAG GAA AAG ACC GAG AAG AAG GAG ACC .AG T.C GGA
Cel-hsp70-4  ATT TTG ATT GCC TTC GTG GCA AAC --- GCG TAC TGT GAT GAA GGA GCA TCT ACC GAG AAG --- GAG GAA .AG .T. GGG
Cbr-hsp70-4  ATC CTC TTT GCC TTT GTG GCA AGA --- GCA TTC TGT GAA GAA GAG GCA GCC GAC --- --- --- AAG GAG .AG CTA GGA
Cel-hsp70-6  TCA TTC TTG TCT TCC GCT CGC ACA ATT GCT CGA TCG AGC TTG ATG AGC GCC AGA AGC TTG TCG GAC AAA CCA ... GGA
Cbr-hsp70-6  TCA TTC TTG TCT TCC GCA CGC ACA ATC GCT CGT TCG AGC TTT ATG AAC ACC AGA ACA TTG TCT GAT AAG CCA ..A GG.
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TCA TGC
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TCA TGC
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. .CA TGC
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TCA TGC
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 ATT GCA GCT GGA GGA ATA TTC ATC TTA CTG TTA GCT GGA TGG TTA GGA CAA AAG TAT GGA TTA CCT CCA CCA CCT .CA
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- GCT GGA TGG CTC GGA CAA AAA TAC GGT CTA CCT CCG CCA CCA .CG
Cel-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 --- CGG TTA CAT GGG ACA GTC --- TTG CTG GTT ATA CTC CTC GGT TGC CTT TTC GCA ACT TCA GAT GGA CAG TT. GCC
Cbr-hsp110-2 --- CGG TTA CGG GGG ATC AAC --- ATG CTC GCA CCA TTC CTT TTC TTC GGC ATG TTT ATG TCA ACA GAT G.. C.. TTG
Cel-hsp110-3 --- AAG TCG TTC ATC CTT GGG CCT TTG GGT CTC CTG GTC GCC ATA TGC TGT CTC TAC CAA CCG GCA GAC GCC GCT .T.
Cbr-hsp110-3 --- AAG TTA CTC ATC TTT GGG CCT TGT GGT CTT CTT GCT GCA CTT TGT TGC TTC TAC CAG CCG ACA GAT GC. GCT .TC
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- ATG ATC GAT TTC AGA GAA TGG TCA TCA GGT GTT AAT ATA TC. TCA AGC
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- ATG ATC GAT TTC AGA GAA TGG TCA TCA GGT GTT AAT ATA TC. TCA AGC
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ATA TC. TCA AGC
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ATA TC. TCA AGC
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TC. TC. TGC
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Cel-hsp70-1   AAC GCT GTT GGA ATC GAT TTG GGA ACT ACC TAC TCC TGC GTG GGA GTT TTC ATG CAC GGA AAG --- --- GTA GAA ATC
Cbr-hsp70-1   ... ..A ... ... ... ... C.C ... ..C ..T ... ... ..T ..C ... ... ..T CAA ... ... ... --- --- ..C ..G ...
Cel-hsp70-2   T.. ... A.. ... ... ... ..A ... ... ... ... .G. ... ... A.. ... ... ... ... ..G ... --- --- ... ... ...
Cel-hsp70-3   .C. AT. A.. ..T ... ... C.C ... ..C ... ... ..G ..T ..C ... ... .A. .A. A.. ... CGT --- --- ..T ... ...
Cbr-hsp70-3   .C. ATC A.C ..T ... ... C.C ... ..C ... ..T ... ..T ..T ... ..C .A. .A. A.. ... CGT --- --- ..T ... ...
Cel-hsp70-4   .CA ATC A.. ..T ... ... C.C ... ..A ... ... ..G ... ..T ... ..C ... .A. A.T ..G CGA --- --- ..T ... ...
Cbr-hsp70-4   .C. ATC A.C ..T ... ... C.C ... ..C ..T ... ..G ... ..T ... ... ... .A. A.. ... CGT --- --- ..T ..G ..T
Cel-hsp70-6   C.T .T. A.C ... ..T ... C.T ... ..C ..A A.. ... ..T ..C A.T A.C A.G GAA GGA AAG .CT --- --- CC. A.. G.T
Cbr-hsp70-6   C.T .T. A.C ... ... ... C.T ... ..C ..A A.. ..T ... ..C A.T A.C A.G GAA GGA AA. .CT --- --- CC. A.G G.T
Cel-hsp70-7   ..A ... A.. ..T ... ..C C.C ..T ... ..G ... ..G ..T ..T ... A.C .AT CA. A.T ... ... --- --- ..T ..G ...
Cel-hsp70-8   ..A ... A.. ..T ... ..C C.C ..T ... ..G ... ..G ..T ..T ... A.C .AT CA. A.T ... ... --- --- ..T ..G ...
Cbr-hsp70-7   ..A ... A.. ... ... ..C C.C ..T ..G ..A ..T ..A ..T ..T ... ..C .A. CA. A.T ... ... --- --- ..T ... ..T
Cbr-hsp70-8   ..A ... A.. ... ... ..C C.C ..T ..G ..A ..T ..A ..T ..T ... ..C .A. CA. A.T ... ... --- --- ..T ... ...
Cbr-hsp70-14  ..A ... A.. ... ... ..C C.C ..T ..G ..A ..T ..A ..T ..T ... ..C .A. CA. A.T ... ... --- --- ..T ... ..T
Cel-hsp70-9   ..A ..G A.. ... ... ..C ... ..T ... ..G ... ..A ..T ..C ..T A.. .AT CAA A.T ... ... --- --- ..T ... ...
Cbr-hsp70-9   ..A ..G A.. ... ... ..C ... ..T ..C ..G ... ... ... ..C ..T A.C .AT CA. T.T ... ... --- --- ..C ... ...
Cel-hsp70-10  --- AG. A.. ..T ..T ... ... ... ... ..T .T. ..T ..T ..A .CT TA. .AT CAA A.T ... C.A --- --- ..G A.T ..A
Cbr-hsp70-10  --- AG. A.. ... ..T ... ... ... ..C ..T .T. ..G ..T ..T .C. TA. .AT CA. A.T ... C.A --- --- ..G A.T G.G
Cel-hsp70-11  ..A ATA .CA ... ..T ... ..A ..T ..A ..T ..T ..G .CA A.A ..T A.C .A. CAT GCT .T. .CT GGT GAA ACG ATC ..T
Cbr-hsp70-11  ..A ATC .CC ..T ... ... ..A ..C ..C ..T ..T ..G .CA A.T ..C A.. .AT CAC GCT .T. .C. GGG GAA ACT ATT ..T
Cel-hsp110-1  TCG .T. C.. ... T.. ..C A.C ..T .AC CT. A.. .G. .A. A.T ..C ... GCA CGT ..A ... GGC --- --- A.T ... G.T
Cbr-hsp110-1  TCG .T. C.C ... T.. ... A.C ..T .AC CT. A.. .G. .A. A.T ..T ... GCA CGC ..A ... GGT --- --- A.T ..G G.T
Cel-hsp110-2  GC. ATG ACA ATT GA. CTC GG. ACT CAA TT. CTT AAA ATT .GA ATT ..A AAA CCT GGA ATT CCA ATG --- .AC ATT GCT
Cbr-hsp110-2  GCT ..A A.G AC. ..T ... C.T ..G ... CAG .TT CT. AAA A.C ... A.C G.G .AA .CT ..T .TT CCT --- A.G ..C ..T
Cel-hsp110-3  GCT ..A A.G TC. ... ..C C.. ... .G. CAG .TT AT. AAG A.T ... T.G G.T .A. .C. ..C GTT CCA --- A.G ..T ..T
Cbr-hsp110-3  GCT ..G A.G TCC ..T ... C.T ..T .G. CAA .T. ATA AAA A.A ... C.C G.G .A. .CT ..T GT. CCG --- A.G ..T ..T
Cbr-hsp70-12  ..A ... A.. ... ... ..C C.C ..T ..G ..A ..T ..A ..T ..T ... ..C .A. CA. A.T ... ... --- --- ..T ... ..T
Cbr-hsp70-13  ..A ... A.. ... ... ..C C.C ..T ..G ..A ..T ..A ..T ..T ... ..C .A. CA. A.T ... ... --- --- ..T ... ..T
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  .GA T.G A.. ... ... ... ... ... ... ..A A.. ..A ..T ..T ..G ... .AT CA. A.T ... ... --- --- A.C ... ...
Cbr-hsp70-18  .GA T.G A.. ... ... ... ... ... ... ..A A.. ..A ..T ..T ..G ... .AT CA. A.T ... ... --- --- A.C ... ...
Cbr-hsp70-19  .GA T.G A.. ... ... ... ... ... ... ..A A.. ..A ..T ..T ..G ... .AT CA. A.T ... ... --- --- ..G TGT ...
Cbr-hsp70-20  .GA T.G A.. ... ... ... ... ... ... ..A A.. ..A ..T ..T ..G ... .AT CA. A.T ... ... --- --- ..G TGT ...
Cbr-hsp70-21  ..A ... A.C ..T ... ..C C.C ..T ..C ..A ..T ... ..T ..T ... ..C .A. CAA A.T ... ... --- --- ..T ..G ..T

Cel-hsp70-1   ATT GCC AAC GAT CAA GGA AAC CGT ACA ACT CCA TCA TAT GTG GCT TTC ACC GAC ACC --- --- GAG CGT CTC ATC GGA
Cbr-hsp70-1   ... ..T ... ... ... ... ... A.A ..C ... ... ..G ..C ..T ... ... ... ... T.T --- --- ..A ... ... ... ...
Cel-hsp70-2   ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... .G. ... --- --- ... .T. ... ... ...
Cel-hsp70-3   ... ... ... ..C ... ... ... ... .TC ..C ... ..C ..C ..T ... ... T.T .GA GAT CAA GGA ..T ... ..G ... ...
Cbr-hsp70-3   ..C ..T ... ..C ... ... ... ... .TC ..C ... ..G ..C ..T ..C ... T.T .GA GAG CAA GGA ..C ... ..T ... ...
Cel-hsp70-4   ..C ... ... ... ... ... ... A.A .TC ... ... ... ..C ..T ..G ..T T.. .GA GAT CAA GGA ... ..A ..T ..T ...
Cbr-hsp70-4   ..C ... ..T ..C ... ... ... A.A .TC ... ..T ..T ... ... ... ... T.T .GA GAG CAA GGA ..A ..G ... ... ...
Cel-hsp70-6   ..C .AG ... .CA G.. ... GT. A.A ..C ... ... ..G ACG ..T ... ... ..T .CT GA. --- GGT ... ... ..T G.T ...
Cbr-hsp70-6   ... .AG ... .CC G.. ... GT. A.A ..C ..C ... ..C AC. ..C ... ... ... .C. GA. --- GGC ..A ... ..T G.. ..T
Cel-hsp70-7   C.C ... ... TCG G.. ... ..T AAG ... ... ... ... ..C ... ..A ... ..A ..T ..G --- --- ..A A.A T.G G.T ...
Cel-hsp70-8   C.C ... ... TCG G.. ... ..T AAG ... ... ... ... ..C ... ..A ... ..A ..T ..G --- --- ..A A.A T.G G.T ...
Cbr-hsp70-7   C.. ... ... TCA G.. ... ... AAA ... ..G ..T ... ... ..T ..A ... ..T ..T ..A --- --- ..A ..A T.G G.T ...
Cbr-hsp70-8   C.. ... ... TCC G.. ... ... AAA ... ..G ..T ... ... ..T ..A ... ..T ..T ..A --- --- ..A ..A T.G G.T ...
Cbr-hsp70-14  C.. ... ... TCA G.. ... ... AAA ... ..G ..T ... ... ..T ..A ... ..T ..T ..A --- --- ..A ..A T.G G.T ...
Cel-hsp70-9   C.C ..G ... TCC G.. ..G ... AAG ..T ..G ..T ..C ..C ... ... ..T ..A ..T ..A --- --- ... A.A ... G.T ..T
Cbr-hsp70-9   C.C ... ..T TCC G.T ... ... AAA ..C ..C ... ..C ..C ... ..A ... ... ..T ..T --- --- ..A ... ... G.A ..T
Cel-hsp70-10  T.G .AA ..T ..G A.T ..T TG. A.A ... ..C ..G ... GTC C.A ... G.T GGT ..G GAT --- GGA ..T TTA ..T ..A ..T
Cbr-hsp70-10  T.G .AG ..T ..A A.T ..G TGT ..A ... ..G ..G ..T GTG T.. ... A.G ..T ..A GAT --- GGG ..T T.. ..T ..A ...
Cel-hsp70-11  T.A C.T G.T ..C .T. ..C ..G AAA T.. GTA ..G AGT GTC ..T ... ... TTA CCA .AT --- GGT ACC GTA T.A ..A ...
Cbr-hsp70-11  C.A ..T G.T ..C TTG ..C ..G AAA T.G .T. ..C --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  ..C A.. ..T ..C T.T TCT CTG .A. G.C ... ... G.T .GC ..A T.. ..T GGA CCA .AA --- --- ..T ..A TCA ..G ..G
Cbr-hsp110-1  ..C A.G ..T ... T.T TCC TTG .A. G.C ... ... G.T .GC ..T T.. ..T GGA CCA .AG --- --- ..C ..A TCG ..G ...
Cel-hsp110-2  C.G AAT .CG ..A TCG A.. .GG AAG ... C.G AAT GTT GT. A.. AT. CAG GAT .G. CA. --- --- CGA AC. T.. GCT .AT
Cbr-hsp110-2  GCC CTT ... ACC G.G TCG CGG A.A .A. ... ... AAT GT. ... ATG A.. CAA ..T GGT --- --- C.C A.A ACG T.T .CC
Cel-hsp110-3  G.G CTG ..T A.G G.G TC. .GA A.A .A. ..G ... AAC GT. A.C T.. ..T .AA A.T GA. --- --- ..A A.G T.T T.T .CT
Cbr-hsp110-3  G.A TTG ... A.G G.. TCC .GA ..C .A. ... ... AAT GTC A.C T.C ... .AG A.. GA. --- --- ... ..A T.T T.T .CT
Cbr-hsp70-12  C.. ... ... TCA G.. ... ... AAA ... ..G ..T ... ... ..T ..A ... ..T ..T ..A --- --- ..A ..A T.G G.T ...
Cbr-hsp70-13  C.. ... ... TCA G.. ... ... AAA ... ..G ..T ... ... ..T ..A ... ..T ..T ..A --- --- ..A ..A T.G G.T ...
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  ... ..A ..T TTC G.. ... ... ..A ..C ..A ... ..C ... ... ..A ... .AT ..A ..T --- --- ..A ..A ..T ..T ..T
Cbr-hsp70-18  ... ..A ..T TTC G.. ... ... ..A ..C ..A ... ..C ... ... ..A ... .AT ..A ..T --- --- ..A ..A ..T ..T ..T
Cbr-hsp70-19  ... ..A ..T TTC G.. ... ... ..A ..C ..A ... ..C ... ... ..A ... .AT ..A ..T --- --- ..A ..A ..T ..T ..T
Cbr-hsp70-20  ... ..A ..T TTC G.. ... ... ..A ..C ..A ... ..C ... ... ..A ... .AT ..A ..T --- --- ..A ..A ..T ..T ..T
Cbr-hsp70-21  C.. ... ... TCG G.. ... ... AAA ..C ..A ... ..C ... ..T ..A ... ..G ... ..A --- --- ... A.A ... G.T ...
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Cel-hsp70-1   GAT GCT GCC AAG AAT CAA GTT GCC ATG AAC CCA CAT AAC ACT GTT TTC GAT GCC AAA CGT CTT ATT GGA CGC AAG TTC
Cbr-hsp70-1   ... ... ... ..A ... ... ..C ... ... ..T ... ..C ... ... ..C ... ..C ..A ... ... ... ..C ... ... ... ..T
Cel-hsp70-2   ... ... ... ... ... ... ... A.. ... ... ... ... ... ... ..T ..A .TT .C. ... ... ... ... ... ..T ...
Cel-hsp70-3   ... ... ..T ... ... ..G C.C A.. ..C ... ... G.A ... ..A A.C ..T ... ... ..G ... ... ..C ... A.A G.T .A.
Cbr-hsp70-3   ... ..C ... ... ..C ..G C.C A.. ..C ... ... G.A ... ..C A.C ... ... ... ... ... ..C ..C ... A.A G.T .A.
Cel-hsp70-4   ... ..C ... ... ... ..G C.C A.A ..C ..T ..G G.G ... ..A A.. ... ..C ... ..G ... ..G ... ..G ..T TTC .A.
Cbr-hsp70-4   ... ... ... ... ..C ..G C.C A.. ..C ..T ... G.G ... ..C A.. ... ..C ..A ... ..C T.G ... ... ... TTT .AT
Cel-hsp70-6   .C. C.A ... ..A .GA ..G .CC .TT .CC ... T.T GCC ..T ... C.. ... .CC A.A ..G A.A T.G ..C ... A.A .GA .A.
Cbr-hsp70-6   .C. C.A ... ... .GA ..G .C. .TT .CA ... T.C GCC ... ... C.. ... .CC A.A ..G A.A T.G ..C ... A.A .GA ...
Cel-hsp70-7   ... ..A ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ..T ... ..A ... A.A T.G ... ... ..A CGT ...
Cel-hsp70-8   ... ..A ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ..T ... ..A ... A.A T.G ... ... ..A CGT ...
Cbr-hsp70-7   ... ..G ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ... ... ..A ... ..A T.G ... ... ..A CGT ..T
Cbr-hsp70-8   ... ..G ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ... ... ..A ... ..A T.G ... ... ..A CGT ..T
Cbr-hsp70-14  ... ..G ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ... ATG CAA ... ..A T.G ... ... ..A CGT ..T
Cel-hsp70-9   ... ..A ..A ..A G.. ... .CC ..T CGT ..T ..G G.G ..T ..A ... ... ... ..A ... ... ..A ... ... A.A CGA ...
Cbr-hsp70-9   ..C ... ... ..A G.. ... .C. ..T CGC ..T ... G.G ... ..A ..C ... ... ..G ... ... ..C ..C ... ..T CGT ...
Cel-hsp70-10  C.A CA. ..A ..A G.. GTT A.C .GA --- ..G G.T AC. ... T.A C.C ..T ..C .TT ... ..A A.A ... ... ..G CGA .AT
Cbr-hsp70-10  C.A CA. ..A ..A G.C GTG A.C A.A --- ..A G.. ACA .GT T.A C.. ..T ... .TA ... ..A A.A ..C ..C A.A CG. ..T
Cel-hsp70-11  AC. AGA ... .C. G.A ... CAA .AA CAC ..T ... A.A CG. ..G A.. .AT ... ..A ... ..A T.. ... ... ..A ..T ..T
Cbr-hsp70-11  --- --- A.. GT. G.G ..G CAA .AG CAT ..T ..G A.A CG. ..G A.. .A. ... ..A ... ..G T.. ... ... A.G ..T ...
Cel-hsp110-1  .T. ..A ..T CG. C.A GC. ..G A.. .C. ... ATC A.G ... ... ... A.T A.C TT. ..G .A. T.G ... ... ..A ..A ...
Cbr-hsp110-1  .TA ..G ..T CGT C.A GCG ..C AA. .CA ..T ATC A.A ..T ..C ... A.. A.. TTT ..G .A. ..G G.. ..G ... ... ...
Cel-hsp110-2  .CA ... AT. GGA .TG ... ..C CGG TAT CCT .AT .T. GTT CA. .GA CAA CTC AA. G.T TTA G.C GGC AA. TC. .CA CAA
Cbr-hsp110-2  ... ... ... .TC GG. ATG CAA .T. CGC T.T ..T ... CTT GTA CAC GGA A.C TTG ..T GAC T.G ... .CC AAG TCT ...
Cel-hsp110-3  ..G ..G ..T GCA GC. ATG TCA T.T TC. C.T ..T ..A TCT T.C TAC AA. TTC CTT CTC TCA A.G ... .CC ..T ... GAA
Cbr-hsp110-3  ..A ..A ..T GCT GCA ATG TCA T.G TCC C.T ... ..A TCA T.. TAC AAT TTC TTA CT. TCC ..C ..A .CC A.A ... GAA
Cbr-hsp70-12  ... ..G ..A ..A G.. ... .CA ..T C-- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ... ..G ..A ..A G.. ... .CA ..T CGT ..T ... G.G ..T ..A ..A ... ... ..A ... ..A T.G ... ... ..A CGT ..T
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  ..C ... ... ... G.. ... .CG T.T CGT ..T ... G.A ... ..A ... .C. A.C ..A ... ... ... ..C ... ..T CGT ...
Cbr-hsp70-18  ..C ... ... ... G.. ... .CG T.T CGT ..T ... G.A ... ..A ... .C. A.C --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ..C ... ... ... G.. ... .CG T.T CGT ..T ... G.A ... ..A ... .C. A.C ..A ... ... ... ..C ... ..T CGT ...
Cbr-hsp70-20  ..C ... ... ... G.. ... .CG T.T CGT ..T ... G.A ... ..A ... .C. A.C ..A ... ... ... ..C ... ..T CGT ...
Cbr-hsp70-21  ... T.A ... ..A G.. ... .CC ... CGA ..T ... G.G C.T ... ..A ... ... ..A ..G ..A --- --- ... A.A CGT ...

Cel-hsp70-1   GAC --- --- GAT CCA GCA GTT CAG TCT GAC ATG AAG CAT TGG CCA TTC AAG GTC ATC TCT GCC GAA GGA GCT AAG CCA
Cbr-hsp70-1   ... --- --- ... ... ..T ... ..A ..C ... ... ... ... ... ... ..A ..T ... ... ..T ..G ... ..A ..A ...
Cel-hsp70-2   ..G --- --- ... ... A.. ... ... ... ... ..A ... ... ... ... ... ... ... ... ... ... ... ... ... ...
Cel-hsp70-3   A.. --- --- ..C AAG A.T ... ..A G.. ... ..C ... ..C ... ... ... ... ..T ..T GAC AAG AGC --- AAC ... ...
Cbr-hsp70-3   A.T --- --- ..C AAG A.T ... ..A G.C ..T ..C ... ..C ... ... ... ... ..T C.. GAC AAG AGC --- AAC ... ...
Cel-hsp70-4   A.. --- --- ..G AA. A.C ... ..A CAA ... ..C ... ..C ... ..G ... ... A.. G.. GAC AAG TCT --- AA. ... ..T
Cbr-hsp70-4   A.T --- --- ... AAG A.C ... ..A GA. ... ..C ..A ... ... ... ... ... A.T G.T GAC AAG TCG --- AAC ... ...
Cel-hsp70-6   ..A --- --- ..C ... .AG ... ..A AAG ... T.A ... GTC GTT ... .A. ... A.T G.. AAA ... AGC --- --- --- ---
Cbr-hsp70-6   ..A --- --- ..C ... .AG ... ... AAA ..T C.T ..A GT. GTC ... .A. ... A.. G.G AAA ... AGT --- --- --- ---
Cel-hsp70-7   ..T --- --- ..A T.. A.. ... ..A ..A ... TGT ... ... ... ... ..T GGA ..G .AA GGA AAA C.. --- .GA ..A ...
Cel-hsp70-8   ..T --- --- ..A T.. A.. ... ..A ..A ... TGT ... ... ... ... ..T GGA ..G .AA GGA AAA C.. --- .GA ..A ...
Cbr-hsp70-7   ..T --- --- ..A GA. A.. ... ..A ..A ... TGC ..A ... ... ... ..T GGC ..A .AA GGA AAA C.. --- .GA ..A ...
Cbr-hsp70-8   ..T --- --- ..A GA. A.. ... ..A ..A ... TGC ..A ... ... ... ..T GGC ..A .AA GGA AAA C.. --- .GA ..A ...
Cbr-hsp70-14  ..T --- --- ..A GA. A.. ... ..A ..A ... TGC ..A ... ... ... ..T GGC ..A .AA GGA AAA C.. --- .GA ..A ...
Cel-hsp70-9   ..T --- --- ..A GA. A.T ... ..A ... ..T ..T ..A ... ... ... ... .CA ..T .AA GGA AAA C.. --- .GA ... ..C
Cbr-hsp70-9   ... --- --- ..G GA. A.C ... ..A ..C ... ..C ... ..C ... ... ..T GCA ... .AA CAA AAA C.G --- .GA ... ...
Cel-hsp70-10  ..T --- --- ..C GTT TT. C.. ..A AGG ... ... CCA .T. ... ..G ..T ..A ..T GAA AAA .AT ..C AAC .GA .TT ..G
Cbr-hsp70-10  ..T --- --- ..C GTT CTC C.. ..A CGA ... ... CCT .T. ... ..G ..T CG. ..T GAG AAG .AT ACC .AT .GA .CT ..C
Cel-hsp70-11  ..A AAA AAT A.. AAG .AC T.. TT. ... ..T CAA ..A .GA .AT ... ..T ..A A.A .AT .TG .AT TCT .A. .GA ..A G..
Cbr-hsp70-11  ..G AGG GAT A.. AA. .AT T.. TT. ..C --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  AGT --- --- ... ..T .TT .CG ..A AGA TT. ..T CCA TTC ATC ..G .GT ..A ..G G.T AAA CTT CC. AAT .A. G.C ATC
Cbr-hsp110-1  AG. --- --- ... ..G ATT .CG ..A CGA TT. ..T CCA TT. ATT ..T .G. ..A ..T G.. CAA CTT CC. AAT .A. G.C ATC
Cel-hsp110-2  C.T --- CCT TCA TTT .AG C.A TTC AAA AGA CGA ..T ACC .TC TTC --- --- .AG G.T GA. .AT .CT CCG AAG ..T G.T
Cbr-hsp110-2  C.A --- CAT CCG T.. TTT .AG .TT .T. A.A .AT .GA A.. CCC TTC --- --- TAT GAA AT. .AT ..C TCG C.. .GA AAC
Cel-hsp110-3  .GA --- GAC ..C G.G TTT ..C ACA .TC C.G .A. .C. TTC CCA TTT ACT GCT T.T GAG .TC .AT ... .TC AGA ..A ---
Cbr-hsp110-3  .GA --- GAC ... G.T TTC ACA GC. .AC A.G .A. .CC TTC CC. TTC ACA GCC T.. GAG .TC .A. ..G .TC AAA ... ---
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ..T --- --- ..A GA. A.. ... ..A ..A ... TGC ..A ... ... ... ..T GGC ..A .AA GGA AAA C.. --- .GA ..A ...
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  ... --- --- ... GA. A.C ..C ..A CA. ... ..T ... A.C ... --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ... --- --- ... GA. A.C ..C ..A GA. ... ..T ... A.C ... ... ..T GTT ..G .AA ..G AA. ..T --- .GA .CA ..T
Cbr-hsp70-20  ... --- --- ... GA. A.C ..C ..A GA. ... ..T ... A.C ... ... ..T GTT ..G .AA ..G AA. ..T --- .GA .CA ..T
Cbr-hsp70-21  ... --- --- ..G T.. A.. ..C ... GAA ..T TGC ... ... ... ..G ... .CT ..G .AA ..A AAG C.. --- .GA ..A ...
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Cel-hsp70-1   AAG GTC CAA GTT GAG TAC AAA GGA GAG AAC AAG ATC TTC ACT CCA GAA GAG ATC TCC TCA ATG GTT TTG CTG AAG ATG
Cbr-hsp70-1   ... ... ..G ..C ... ... ..G ... ... .C. ..A ... ... ... ... ... ..A ... ... ..C ... ... C.. ... ... ...
Cel-hsp70-2   ..A ..T ... ... ... ... .G. .C. ... ... .C. ..T ... ... ... ..G A.. ... ... G.. T.. ... ... ... ... ...
Cel-hsp70-3   TCC ... G.. ..C A.. GTT GG. TCC ..C ... ... CAA ... ..C ... ... ..A G.T ... G.T ... ... C.C G.C ... ...
Cbr-hsp70-3   TCC ... G.. ..C A.. GTT GG. .CT ..C ... ... CAG ... ..C ... ... ..A G.. ... G.T ... ... C.C G.C ... ...
Cel-hsp70-4   ..T ..T G.G ..G A.. GTT GG. TCC ... .CG ..A CAA ... ... ..T ... ..A G.. ..T G.C ... ... C.T AC. ... ...
Cbr-hsp70-4   .CC ..T G.. ..C A.. GT. GG. TCT ..A TCG ..A CAG ... ... ... ... ..A G.. ..G G.T ... ..C C.C ACT ... ...
Cel-hsp70-6   ..C .GA G.C .CG TG. GTT G.G .CT C.A GGA ..A G.G .AT T.C ... TCT C.. G.T GGA G.. T.C ... C.. A.. ... ...
Cbr-hsp70-6   ..T .GA G.C .CC TG. GTT G.. .CT C.A GGA ..A G.G .AT T.C ... TCT C.A G.T GGA G.T T.C ..G C.T A.. ... ...
Cel-hsp70-7   GT. A.T G.. ... ..A GTG ... ... ..A ..G .G. CAA ... .A. ... ... ... ... ..T G.. ... ..A C.C .AA ... ...
Cel-hsp70-8   GT. A.T G.. ... ..A GTG ... ... ..A ..G .G. CAA ... .A. ... ... ... ... ..T G.. ... ..A C.C .AA ... ...
Cbr-hsp70-7   GT. A.. G.. ..G ..A ATG ... ... A.A ..G .GA CAG ... .A. ... ... ..A ... ..A G.. ... ..A C.T .A. ..A ...
Cbr-hsp70-8   GT. A.. G.. ..G ..A ATG ... ... ..A ..G .GA CAG ... .A. ... ... ..A ... ..A G.. ... ..A C.T .A. ..A ...
Cbr-hsp70-14  GT. A.. G.. ..G ..A ATG ... ... ..A ..G .GA CAG ... .A. ... ... ..A ... ..A G.. ... ..A C.T .A. ..A ...
Cel-hsp70-9   GTT ..T G.G ... ..A GTG ... ... ..A ..A CGA GAA ... .A. G.T ... ..A ..A ..T G.. ... ..A C.T .A. ... ...
Cbr-hsp70-9   .T. A.T ..G ..G ..A GT. ... ..C ... ..A CG. GAG ... .G. G.. ..G ... ... ..A G.G ... ..G C.T A.. ... ...
Cel-hsp70-10  T.T T.A G.. A.. C.C A.A ..C .A. A.A CCA TTA .AA ... T.. G.T .TT ACT G.A ... ... C.T A.A C.. AGA TGC T..
Cbr-hsp70-10  T.T C.T ... A.. C.A A.T G.C .CT A.. ..A GTC .AA ... T.A G.T .TT ACA G.A ... ..C T.. A.. C.. AAA TGT C.C
Cel-hsp70-11  TTT T.. G.. A.. CCT CT. G.T TCG .GC .C. ... .A. G.A TA. ..T ... ..A ... GGA ... C.C A.A A.T GGA T.C T..
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  GGA ..T ... ..C AGT ..T CTT ..C ..A CCT C.C .CT ... ..C ... ... C.A G.T CTT G.T GCC C.. C.C AC. ... C.T
Cbr-hsp110-1  GGA A.. G.. ..C AGC ..T CTC ... ..A CCA C.T .CT ... T.C ... ..G C.A G.T CTA G.. GCT C.G C.C ACC ... T..
Cel-hsp110-2  TCT TCT ATT AAC TTC A.G CTT ..C .GA G.A .GC TAT ACA GT. GA. .C. CTA .CT G.T ATG ..T T.A GCA AAC GC. .A.
Cbr-hsp110-2  GC. TCT TCT ... A.C .TT ..G CTC .GA GGA G.. .G. .A. T.. GTT ... .CT C.G A.T G.T ... ... C.T GCT ..C GC.
Cel-hsp110-3  --- --- ACT ... .TC .T. CC. TAC A.A G.G G.A .AG .A. .A. GTG ... ACA C.T .TG G.. ... A.. C.. TG. ..T GCA
Cbr-hsp110-3  --- --- ACT ..G ATC .T. CCT TAC A.. G.G G.A .AA .A. .AC GTC ..G ACA C.G .TG G.. ... A.. ... TG. ..C GC.
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  GT. A.. G.. ..G ..A ATG ... ... ..A ..G .GA CAG ... .A. ... ... ..A ... ..A G.. ... ..A C.T .A. ..A ...
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  GT. A.. ... ..G C.A GT. ... ... ... ... ... GAG ... .A. G.. ..G ... ... ..A G.G ... ..G C.T .GA .G. ...
Cbr-hsp70-20  GT. A.. ... ..G C.A GT. ... ... ... ... ... GAG ... .A. G.. ..G ... ... ..A G.G ... ..G C.T .GA .G. ...
Cbr-hsp70-21  GT. ..G G.. ... ..A GT. ... ... ... ..A TGT CAA ... .A. ... ..G ..A ... ..A G.. ... A.C C.T .A. ..A ...

Cel-hsp70-1   AAG GAG ACT GCC GAG GCT TTC CTT --- --- GGA ACC ACC GTC AAG GAT GCC GTT GTC ACT GTC CCA GCT TAC TTC AAC
Cbr-hsp70-1   ... ..A ..C ... ... ... ... ..C --- --- ... .G. ... ... ... ..C ... ... A.. ..C ..A ... ..C ... ... ...
Cel-hsp70-2   ... ... ..C ... ... ..C ... ... --- --- ... ... ... ..T ... ... ... ... ... ... T.. ... ... C.. ...
Cel-hsp70-3   ... ... .TC ... ... T.C .A. ... --- --- ... .AG GAA ... ... A.C ... ..C ... ... ... ... ... ..T ... ...
Cbr-hsp70-3   ... ... .TC ... ... T.C .A. ..C --- --- ... .AG GAA ... ... C.C ... ..C ... ..C ... ... ... ... ... ...
Cel-hsp70-4   ... C.. .T. ... ..A T.C .A. ... --- --- ..T CA. GAG ..G ... A.C ... ... ... ..C ..G ... ..A ... ... ..T
Cbr-hsp70-4   ... C.C .T. ..T ..A T.C .A. ..C --- --- ... CA. GAA ..G ... A.C ..T ..C ... ..C ..T ... ... ... ... ..T
Cel-hsp70-6   ... ..A ... ... ..A AGC .AT T.G --- --- ... ... ... ... ..C A.C ... ... ..T ..A ..T ... ... ... ... ...
Cbr-hsp70-6   ... ..A ..C ..T ..A AGC .AT T.G --- --- ..T ... ... ... ..C A.C ... ... ..T ... ..T ... ..C ... ..T ...
Cel-hsp70-7   ... ..A ..A ..T ... A.. .AT ..C --- --- ... CAT ... ..G ..A ... ..A ... A.. ..A ..T ..T ..A ... ... ..T
Cel-hsp70-8   ... ..A ..A ..T ... A.. .AT ..C --- --- ... CAT ... ..G ..A ... ..A ... A.. ..A ..T ..T ..A ... ... ..T
Cbr-hsp70-7   ... ..A ... ..A ... A.A .A. ..G --- --- ... CAT G.A ... ... ... ..A ..G A.T ... ..A ..T ..A ... ... ...
Cbr-hsp70-8   ... ..A ... ..A ... A.A .A. ..G --- --- ... CAT G.A ... ... ... ..A ..G A.T ... ..A ..T ..A ... ... ...
Cbr-hsp70-14  ... ..A ... ..A ... A.A .A. ..G --- --- ... CAT G.A ... ... ... ..A ..G A.T ... ..A ..T ..A ... ... ...
Cel-hsp70-9   ..A ..A ..G ..T ..A ... G.A ... --- --- ..G CAT T.T ..A CG. ... ..T ..C A.T ... ..G ..T ..A ..T ..T ..T
Cbr-hsp70-9   ... ... ..C ..G ... A.C .AT ..A --- --- ... CAT .AT ... ... ... ..A ..G A.T ..A ..A ..C ..C ... ... ..T
Cel-hsp70-10  ... T.C .A. ..G ... AGA AAA T.G --- --- ..T CTT GAA ..G ..A AGC ..A ..G A.T ... ..A ..T ..A ..T ... ..T
Cbr-hsp70-10  ..A ... .A. ..G ... AGA AAG T.A --- --- ..T GTT GAA ..G ..A AG. ..A ..G A.T ..G ..A ..T ... ..T ... ..T
Cel-hsp70-11  ..A TCT G.A ..T .CT AAA CAT T.G --- --- ..C GTA ..T C.T GGA C.A .TA ... A.. T.A TGT ... ... G.A ... ..T
Cbr-hsp70-11  --- --- G.A ..T .CC AAA CA. T.A --- --- ... G.A GTT C.G GGT C.A .TA ..G A.. T.G TGT ..G ..G G.A ... ..T
Cel-hsp110-1  CGT ACT .T. .TG ..A T.. CAA ... TCT GAC .TG .AG .AA ..T TCA ... TG. ... C.T G.. ... ..G T.C ... ... .CT
Cbr-hsp110-1  CGT ACA .TC .TT ... T.C CAG ..G ACG GAT .TG .AA .AA ..T TCC ..C TGT ..C C.G G.G ..T ... T.. ... ..T .C.
Cel-hsp110-2  ... TTT ... .AA ..A TA. GCA .AA --- GCT .CT GAA .T. AAA G.T .T. .TT A.C ACT GT. CCG GTC TAC .TT ACA CCT
Cbr-hsp110-2  ... A.. TTC A.T ..A .AG .AT GC. --- CAA .TT T.T GAA A.. ... ... .TG ..C A.. ... ..T ... .TC ... ... .C.
Cel-hsp110-3  ... A.A GT. A.. ..A ..A .AT GC. --- GAT CAG ..T --- ..G ... ... .T. ..C A.. ..C ..G ... AT. .T. ..G ..T
Cbr-hsp110-3  ... A.A GTG A.A ... ..C .AT GCA --- GAC CA. ... --- ..G ... ... .T. ... A.. ..C ..A ... ATC .T. C.A ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ... ..A ... ..A ... A.A .A. ..G --- --- ... CAT G.A ... ... ... A.A ..G A.T ... ..A ..T ..A ... ... ...
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  .G. A.T GT. ..G ... ..C .AT ..C --- --- ..G CAT GAT ... ... ... ..A ..G A.T ..A ..A ..C ..C ... ... ..T
Cbr-hsp70-20  .G. A.T GT. ..G ... ..C .AT ..C --- --- ..G CAT GAT ... ... ... ..A ..G A.T ..A ..A ..C ..C ... ... ..T
Cbr-hsp70-21  ... ..A ... ..G ..A TTA G.T --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   GAC TCG CAG CGT CAA GCC ACC AAG GAT GCC GGA GCC ATC GCT GGA CTC AAC GTT CTC CGT ATC ATC AAC GAG CCA ACC
Cbr-hsp70-1   ..T ... ... ... ... ..T ... ... ... ... ... ..T ... T.C ... ... ... ... ..T ... ... ... ... ... ... ..T
Cel-hsp70-2   ... ..C ... ... G.. ..A ... ... ... ... ... ... ... ... ... ..T ... ... ..T ... ... ... ... ... ... ...
Cel-hsp70-3   ... G.C ..A ... ... ..T ... ... ... ... ... A.. ... ... ... T.G ... ... G.T ... ... ... ... ... ... ...
Cbr-hsp70-3   ..T G.C ... ... ... ... ..T ..A ... ... ... A.. ... ... ... T.G ... ..C G.T ... ... ..T ... ... ... ...
Cel-hsp70-4   ..T G.T ..A AAA ... ... ... ... ... ..A ... T.T ..T ..C ... ..T ... ... G.G A.A ... ... ... ..A ... ..A
Cbr-hsp70-4   ..T G.C ... A.A ... ... ... ..A ..C ... ..T A.T ... ... ... ..T ... ... G.. A.A ... ... ... ..A ... ..T
Cel-hsp70-6   ..T ..T ... ... ... ..T ..T ... ... ..T ... CAA ... T.. ..T ..T ... ... ..T ... G.. ... ... ... ... ..T
Cbr-hsp70-6   ..T ..T ..A ... ... ... ... ... ..C ... ... CAA ..T T.. ... ... ... ..T ... G.G ... ... ... ... ..T
Cel-hsp70-7   ..T AGT ... A.G ... ..A ..A ... ... ..A .CT A.. ..T ... ... ... ..T .CA A.T ..A ..T ... ..T ..A ... ..T
Cel-hsp70-8   ..T AGT ... A.G ... ..A ..A ... ... ..A .CT A.. ..T ... ... ... ..T .CA A.T ..A ..T ... ..T ..A ... ..T
Cbr-hsp70-7   ... AGT ... A.A ... ..A ... ..A ... ..A .CT A.. ..T ... ... ... ..T .CC A.. ..A ... ... ..T ..A ..G ..T
Cbr-hsp70-8   ... AGT ... A.A ... ..A ... ..A ... ..A .CT A.. ..T ... ... ... ..T .CC A.. ..A ... ... ..T ..A ..G ..T
Cbr-hsp70-14  ... AGT ... A.A ... ..A ... ..A ... ..A .CT A.. ..T ... ... ... ..T .CC A.. ..A ... ... ..T ..A ..G ..T
Cel-hsp70-9   ..T AGC ... A.G ..G ..G ... ..A ... ..A .CT A.T ..T ... ... ... ..T .CA A.T ... ..T ... ..T ..A ... ..G
Cbr-hsp70-9   ..T AGC ..A ..G ... ..T ..T ..A ..C ..A .CT A.. ..T ... ..T ... ..T .CG A.T ..A ... ... ..T ... ... ..T
Cel-hsp70-10  .CA A.A ... A.G AG. ... ..G G.A ..A ..T .CT .AG ..T ..A ..T T.G ..A ... ..T ..A ..T T.G ... ... ... ..A
Cbr-hsp70-10  .C. A.. ..A ..G AG. ..A ..G G.A ..A ..G .CT .AA ..G ... ..G T.G ..G ..G T.G A.G ..T T.A ... ..A ... ..G
Cel-hsp70-11  ..G AAA ..A ..A A.T TT. ..A GCC A.A ..T .CT .AA ... ..A .A. A.G G.A ... .GG A.A G.A ..T TC. ... ..G ..A
Cbr-hsp70-11  ..A AAA ..A A.G A.T TTT ..G GGA ATC ..A .CG .AA ... ... .A. A.G G.A ..G .GG A.A G.G ..A TCG ... ..G ..G
Cel-hsp110-1  ..T GTT ..A ..A .GC ..T GTT CTC TCA ..T ATT CAA TAT ..C ... T.G ... TC. ..T ..C ... G.. ..T ..A A.. ..T
Cbr-hsp110-1  ..T GTC ..A A.A .GT ..A GTT TTC TCC ..A ATT CAA TAT ... ..G ..A ... TCC ... ..C ... ... ..T ..A A.. ..A
Cel-hsp110-2  .CT GAA AGA TTG GCT .TA GAG CGT .CA ..T CA. ATG GCT .GA CTC AC. GT. C.. .AA .T. ... .AT G.T .GT A.. G.T
Cbr-hsp110-2  CCA GT. G.. A.A TT. ..A TTG G.A CGA ... .CT CAA ..G ... ... T.. ..T ... ..T .AA C.G ... ..T ..T GGG ..A
Cel-hsp110-3  C.A G.T G.A ..A .GT ... .T. GCT TCC ... .CG .AA ..T ... ..G ..T ... C.G ..T .AG C.T C.. ..T ..C GGC T.G
Cbr-hsp110-3  C.G G.T G.A ... .GT ... .TT GCA ACA ..T .CC .AG ... ... ..C ... ... C.. ..T .AG T.A C.. ... ..C GG. T.G
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ... AGT ... A.A ... ..A ... ..A ... ..A .CT A.. ..T ... ... ... ..T .CC A.. ..A ... ... ..T ..A ..G ..T
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ..T AGC ..A ..C ... ... ... ..A ..C ..G .CT A.. ..T ... ..T ..A ... .C. A.T ..A ... C.. ..T ... ... ..T
Cbr-hsp70-20  ..T AGC ..A ..C ... ... ... ..A ..C ..G .CT A.. ..T ... ..T ..A ... .C. A.T ..A ... C.. ..T ... ... ..T
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   GCT GCA GCT ATC GCT TAC GGA CTT GAC AAG AAG GGA CAC GGA GAA --- --- --- --- --- CGC AAC GTT CTT ATC TTC
Cbr-hsp70-1   ... ..C ... ... ..C ... ... ..C ... ... ... ... GCT ... ... --- --- --- --- --- ... ... ... ..C ..T ...
Cel-hsp70-2   ... ..C ..A ... ... ... ..G T.. ... ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ..C ..C ..C ... ..C ... ... ... ... ... ... --- G.. ... ... --- --- --- --- --- ... ... A.C ..C G.. ...
Cbr-hsp70-3   ..C ..C ..C ... ..C ... ... ... ... ... ... --- G.. ... ... --- --- --- --- --- ... ... A.C ..C G.. ...
Cel-hsp70-4   ..G ... ..C ... ... ..T ... T.G ..T ... ..A --- G.T ... ... --- --- --- --- --- ... ... A.. ... G.. ...
Cbr-hsp70-4   ... ..T ... ..T ... ... ..C T.G ... ... ... --- G.A ... ... --- --- --- --- --- A.A ... A.. ..C G.T ...
Cel-hsp70-6   ... ..C ... C.. ..C ..T ... T.G ..T ... G.C --- GCT ... ..T --- --- --- --- --- AAG .T. A.C GC. G.. .A.
Cbr-hsp70-6   ..C ..T ... C.T ... ... ... T.A ... ..A G.C --- GC. ... ..C --- --- --- --- --- AAG .T. A.C GC. G.G .A.
Cel-hsp70-7   ... ..T ... C.T ..A ..T ... T.G ..T ..A GGA ATT ..A .AT ..G --- --- --- --- --- AAG ..T ..A T.G ... ...
Cel-hsp70-8   ... ..T ... C.T ..A ..T ... T.G ..T ..A GGA ATT ..A .AT ..G --- --- --- --- --- AAG ..T ..A T.G ... ...
Cbr-hsp70-7   ..A ..T ... C.T ... ..T ... T.G ..T ..A GGA ATC AGT .A. ..G --- --- --- --- --- AAG ..T ..A ..G ... ..T
Cbr-hsp70-8   ..A ..T ... C.T ... ..T ... T.G ..T ..A GGA ATC AGT .A. ..G --- --- --- --- --- AAG ..T ..A ..G ... ..T
Cbr-hsp70-14  ..A ..T ... C.T ... ..T ... T.G ..T ..A GGA ATC AGT .A. ..G --- --- --- --- --- AAG ..T ..A ..G ... ..T
Cel-hsp70-9   ..G ... ... T.G ..C ..T ... ..C ..T ..A GGA ATT ACT .AT ..G --- --- --- --- --- AAG ..T A.. T.G ..T ...
Cbr-hsp70-9   ..A ..C ..C T.G ... ..T ... T.A ... ... GG. ATC ACT .AG ..G --- --- --- --- --- AAG ..T ..G T.G ... ...
Cel-hsp70-10  ..A ..C ..A ..A ..A ... A.T ..C A.G GGA C.. A.. .TT TCT AG. --- --- --- --- --- A.A ..T A.. T.G ... .A.
Cbr-hsp70-10  ..A ..G ..A ..T ... ..T A.T T.G A.G GGC C.A C.C TT. TCC AG. --- --- --- --- --- A.A ..T A.A T.G ..A .AT
Cel-hsp70-11  ..G ..C ..G T.G ..A ... ... T.G C.. ..A ..A --- ..A ... .TT --- --- --- --- --- GAA ..T ... G.C G.T G.T
Cbr-hsp70-11  ... ..C ..G T.G ..A ... ... T.G C.T ... ... --- ..G ..G .TG --- --- --- --- --- GAG ..T ..G G.. G.T G.A
Cel-hsp110-1  ..A ATT ... C.A ..C ... ... A.C T.. ... C.A .AT .T. CC. ..G GAA GAT GCC AAA TCG ... ... ..C G.G T.. C.T
Cbr-hsp110-1  ..C ATC ... C.G ..A ... ..T A.. T.. ... C.A .AT .T. CC. ... GAA GAT GCC AAG CCA ..T ..T ... G.C T.. C..
Cel-hsp110-2  ..A ... TTG .GT CA. GGA ATC T.C CGT .GA ..A .A. AT. ..T ..G AAA --- --- CCG CAG A.A TTA A.G G.C TAT GA.
Cbr-hsp110-2  ..G ..T ..A T.A AG. C.T ..C A.C TT. .GA .GA AAG G.T ATT AC. GAA --- --- AAG CCT .AA .GA C.G A.G G.T .A.
Cel-hsp110-3  ... ..T ... T.G AA. ..T ... G.G TT. .G. CGC AAG G.A ATC ACC GAA --- --- AAA CCG ACA C.. A.G T.G ..T .AT
Cbr-hsp110-3  ... ..C ... C.G AAC ..T ... G.G TT. CGC .GA AA. G.A ATC ACT GAA --- --- AAG CCG ATG C.. A.G T.G ..T .AT
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ..A ..T ... C.T ... ..T ... T.G ..T ..A GGA ATC AGT .A. ..G --- --- --- --- --- ATG ..T ..A ..G ... ..T
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ..C ... ..C T.G ... ..T ... T.G ..T CGA GG. ATC ACA .A. ... --- --- --- --- --- AAG .TA ... T.G ..T ...
Cbr-hsp70-20  ..C ... ..C T.G ... ..T ... T.G ..T CGA GG. ATC ACA .A. ... --- --- --- --- --- AAG .TA ... T.G ..T ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   GAT CTT GGA GGT GGT ACC TTC GAT GTC TCC ATT CTT ACC ATT GAG GAC GGA --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1   ... ... ... ... ... ..T ... ... ... ..T ... ..C ..T ... ... ..T ... --- --- --- --- --- --- --- --- ---
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ... ... ... ... ... ..T ... ... ..A ... ..G ..C ... ... ..C A.. ... --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3   ... ... ... ... ... ... ... ... ..G ... ..G ..C ... ... ..C A.. ... --- --- --- --- --- --- --- --- ---
Cel-hsp70-4   ... T.G ... ... ..A ..T ... ... ..A ... C.. ... ... ..C ..C AG. ... --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4   ..C T.G ... ... ... ..T ... ... ..T ..T C.. ..C ..T ..C ..C A.. ... --- --- --- --- --- --- --- --- ---
Cel-hsp70-6   ... ... ... ... ... ..T ... ... ..G ..A ... ... GAA ..C C.A A.G ..C --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6   ... ... ... ... ..A ... ... ... ..G ..T ... ... GAG ..C C.. A.G ... --- --- --- --- --- --- --- --- ---
Cel-hsp70-7   ... ..C ... ..A ... ..A ..T ... ..T ..A ... ... T.A ... .CT ..A ... TCG --- --- --- --- --- --- --- --- ---
Cel-hsp70-8   ... ..C ... ..A ... ..A ..T ... ..T ..A ... ... T.A ... .CT ..A ... TCG --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7   ... ... ... ..A ... ..T ..T ... ..T ..A ..C ... T.A ... .CT ..A ... TCA --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8   ... ... ... ..A ... ..T ..T ... ..T ..A ..C ... T.A ... .CT ..A ... TCA --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14  ... ... ... ..A ... ..T ..T ... ..T ..A ..C ... T.A ... .CT ..A ... TCA --- --- --- --- --- --- --- --- ---
Cel-hsp70-9   ... T.G ... ..A ... ..A ..T ... ... ..G ..C ... T.G ... .C. ..A ... TCT --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9   ..C T.G ... ..C ..C ..T ..T ... ... ... ..C T.. ..C .CC ..A ... TCC --- --- --- --- --- --- --- --- ---
Cel-hsp70-10  ... ..A ... ... ..C ..T ..T ..C ..G G.A GC. G.G .AT G.A ..C .GG CC. --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10  ... ..G ..T ... ..C ..A ..T ..C ..A G.. G.. G.C .AT G.G ..A .GA CCC --- --- --- --- --- --- --- --- ---
Cel-hsp70-11  ... T.G ..T ... ... ..T C.T ... ... ... G.A T.G TGG C.. C.A .GA ... --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  ... T.A ..C ..C ... ... C.. ..C ... ..T G.. ..C TGG C.C C.A .GA ..C --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  ... A.C ..T CA. TCG T.A ACA C.G .CT ..A T.G G.. G.T T.C A.T CGT ... --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1  ..C A.C ..G CAC TCG T.A ACT C.A .C. ..A T.G G.. T.T T.C A.C CG. ... --- --- --- --- --- --- --- --- ---
Cel-hsp110-2  ATG GGA .C. .C. AAG ..T ACT .CA ACA ATT G.C GAG TTT .AG TT. .T. AAG GAG AAG TAC GAG AAA --- --- --- CAA
Cbr-hsp110-2  ... A.G ..C .C. .CG .AG AC. ACA .CT A.T ... G.C GAG T.C A.A TTG .TC AAA GAA AAA TAT GAG --- --- --- AAG
Cel-hsp110-3  ... A.G ... .CC .T. .AG ACA AC. .CA A.. ... G.A CAA TA. .TA CTT .A. TCA ACT CGT AAG GAC GGC AAG GAC AAG
Cbr-hsp110-3  ... A.G ... .C. .TG .AG AC. AC. .C. A.. ... G.G CAA TAC .TT TTG .A. TCA ACT CGC AAA GAC GGA AAA GAC AAG
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  ... ... ... ..A ... ..T ..T ... ..T ..A ..C ... T.A ... .CT ..A ... TCA --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ... T.G ... ... ..A ..A .GT ... ..A ..G ... ..C T.A ..C .CC ..A AAG TCT --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... T.G ... ... ..A ..A .GT ... ..A ..G ... ..C T.A ..C .CC ..A AAG TCT --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   --- --- ATC TTC GAA GTC AAG TCT ACC GCT GGA GAC ACT CAT CTT GGA GGA GAG GAC TTC GAT AAC CGC ATG GTG AAC
Cbr-hsp70-1   --- --- ..T ... ..G ... ... ... ... ... ... ... ... ... ... ... ... ..A ... ... ..C ... ... ... ..T ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   --- --- G.. ... ... ..T TT. G.C ... AAC ... ... ... ..C T.G ... ... ..A ... ..T ..C C.A ..T G.C A.. G.A
Cbr-hsp70-3   --- --- G.. ... ..G ... TT. G.C ... AAC ... ... ... ..C T.G ... ... ..A ..T ... ... C.A ..T G.C A.. G.A
Cel-hsp70-4   --- --- G.T ... ..G ..T CTT G.C ..T AA. ... ..T ..C ... T.G ... ... ..A ..T ... ... C.A ... G.. A.. G.A
Cbr-hsp70-4   --- --- G.T ... ... ..T CTT G.C ... AAC ... ..T ... ..C T.A ... ... ... ... ..T ..C C.A ..T G.T A.. G.G
Cel-hsp70-6   --- --- G.. ... ..G ... ... ..C ... AAC ... ..T ..A TTC ..C ... ... ..A ... ... ... C.. GCT C.C ..C C.T
Cbr-hsp70-6   --- --- G.T ... ..G ... ... ..C ... AAC ... ... ... TTC ..C ... ... ..A ..T ..T ... C.T GCT C.C ..T C..
Cel-hsp70-7   --- --- ..A ... ... ..G ..A ..A ..T ... ..T ..T ..C ... ..C ... ... ..A ... ..T ... C.A ..A ... C.T C.A
Cel-hsp70-8   --- --- ..A ... ... ..G ..A ..A ..T ... ..T ..T ..C ... ..C ... ... ..A ... ..T ... C.A ..A ... C.T C.A
Cbr-hsp70-7   --- --- ..A ... ... ... ... ..C ..A ... ... ..T ... ... ... ... ... ... ..T ... ... C.A A.A ... C.T C.A
Cbr-hsp70-8   --- --- ... ... ... ... ... ..C ..A ... ... ..T ... ... ... ... ... ... ..T ... ... C.A A.A ... C.C C.A
Cbr-hsp70-14  --- --- ..A ... ... ... ... ..C ..A ... ... ..T ... ... ... ... ... ... ..T ... ... C.A A.A ... C.T C.A
Cel-hsp70-9   --- --- ..T ... ... ... ... ..A ..T ..A ... ..T ... ... ... ... ... ..A ... ..T ... TCT ..A G.T C.A C.A
Cbr-hsp70-9   --- --- ... ... ... ..T CGC ..C ... ..C ... ... ... ... ..C ... ... ... ... ..T ..C TC. ..A ... C.T C.A
Cel-hsp70-10  --- --- .GG A.T ACT ..A ..A G.. .AA .GA ... ..T ... ..C T.G ..C ..T C.A ..T A.T ... ..T ATT ..A A.. .TA
Cbr-hsp70-10  --- --- .GG A.T ACT ..A ... G.A .AA .GA ... ... ..A ... T.G ..T ..C C.A ... A.T ... ..T ATA ..A A.. .T.
Cel-hsp70-11  --- --- G.T ..T .T. ACT C.A G.A .TG ... ... A.T .A. .G. T.G ... ..C C.A ..T ... A.. G.T ..T G.T CAA ..G
Cbr-hsp70-11  --- --- G.. ..T .TG AC. C.A G.G .TG ..C ..G A.. .A. .G. ... ..C ..C C.. ... ... A.. G.A A.A G.T CAA ..A
Cel-hsp110-1  --- --- .AA C.T C.G A.G GTT AAC ..A T.A TAC ..T TTG G.G TC. ..T ..T ATT TGG ... ... GCT .TT ..T CGA G.G
Cbr-hsp110-1  --- --- .AG ..G C.. A.G GTC AAC ..A T.C TAC ..T CTG G.A GC. ..T ..T CTC TGG ... ..C GCT .T. ..T CGT G.G
Cel-hsp110-2  CCA AAA ..G ACA .TC C.G GGA GTA GGG TTC .AT CGA ..A TTA GGA ... ATT ... ATG AC. A.. CGT .TT .GA .AT C.T
Cbr-hsp110-2  CAG CCG .AG A.G ACG ..T TT. GGA GTG .GA TAC ... .GA ACG T.G ... ..T ATT ..G A.G ACA ... ..G T.. AGA G.T
Cel-hsp110-3  CAA CCC .CA C.T CGC AC. GTT GG. GTT .GA TTT ..T .AA AC. ... ... ... CTC ..A A.. ACC ..T ..A C.C AGA G.T
Cbr-hsp110-3  CAA CCC .CA C.. CG. AC. GT. GGA GTT .GA TAT ... .AG AC. T.G ... ... CT. ..A A.. ACC ... ..A G.C AGA G.T
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- ..A ... ... ... ... ..C ..A ... ... ..T ... ... ... ... ... ... ..T ... ... --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- G.. ... ... ..T CGC ..C ... ..A ... ..T ..G A.A ... ... ... ... ... ..T ... TC. A.A C.A ..T G.A
Cbr-hsp70-20  --- --- G.. ... ... ..T CGC ..C ... ..A ... ..T ..G A.A ... ... ... ... ... ..T ... TC. A.A C.A ..T G.A
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   CAC TTC TGT GCC GAG TTC AAG CGC --- --- AAG CAC AAG AAG GAT CTT GCT TCC AAC CCA CGT GCT CTT CGT CGT CTT
Cbr-hsp70-1   ... ... GTC ..T ... ... ... ... --- --- ... ... ... ... ..C ... ... ... ..T ... ... ... ... ... ... ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   T.. ... ATC AAG CTT .A. ... AAG --- --- ... TCT GGA ... ... ..C CGC AAA G.. AAG ... ..C G.. .AA AAG ...
Cbr-hsp70-3   T.. ... ATC AAG CTC .A. ... AAG --- --- ... TC. GGA ... ... ..C CGC AAG G.. AAG ..C ... G.. .AG AAG ..C
Cel-hsp70-4   T.. ... ATC AAG CT. .A. ... AAA --- --- ... TCT GGA ... ..C ... CGC AAG G.. AAC ... ..C G.. .AG AAA ...
Cbr-hsp70-4   T.. ... ATC AAA CTC .A. ... AAG --- --- ..A TCT GGA ... ... ... CGC AAG G.. AAT ..C ... G.. .AA AAG ...
Cel-hsp70-6   ... C.. GT. .GA ... ... ... AAG --- --- G.. ..A GGA GTT ... ... A.C AAG G.T ... .AG ..C A.G .AG A.A ...
Cbr-hsp70-6   ... C.T GT. .GA ... ... ... AAG --- --- G.. ..A GGA GTT ..C ..C A.C AAG G.T ... .AG ... A.G .AA A.A ...
Cel-hsp70-7   ... ..T ATG AAT ... ... ..A A.G --- --- ... AC. GGA ... ..C A.. T.A C.. ..T ... ..A ..C A.C ..A ... ..C
Cel-hsp70-8   ... ..T ATG AAT ... ... ..A A.G --- --- ... AC. GGA ... ..C A.. T.A C.. ..T ... ..A ..C A.C ..A ... ..C
Cbr-hsp70-7   ... ..T ATG AAT ..A ... ..A ..A --- --- ... AC. GG. ... ... A.C T.A C.G ..T ... ... ..C A.C ..A ... ..C
Cbr-hsp70-8   ... ..T ATG AAT ..A ... ..A A.A --- --- ... AC. GGA ... ... A.C T.G C.A ..T ... ... ..C A.C ..A ... ..C
Cbr-hsp70-14  ... ..T ATG AAT ..A ... ..A ..A --- --- ... AC. GG. ... ... A.C T.A C.G ..T ... ... ..C A.C ..A ... ..C
Cel-hsp70-9   ..T ..T ATG A.. ..A ... ..A A.A --- --- ..A ACT GGA ..A ... A.. T.A ..A ..T ..C ..C ..A A.. ... ... ..C
Cbr-hsp70-9   ..T ... ATG A.A ..A A.T ... A.A --- --- ... ACT GGA ..A ... A.C T.. C.G ... ... ..A ..C A.. ..A ... ...
Cel-hsp70-10  A.G A.G .TA .AA ..A ..T ... AA. --- --- .GA ..T GGA .TT ... T.G AAA GGA ... TAT ..A ..A ..G AAG ..G A.C
Cbr-hsp70-10  A.G A.T ATC .AA ... ..T ..A A.A --- --- .GA ... GGA .T. ..C ..G AAG GGA ..T TAT ..G ..A ..G AAA A.G G.C
Cel-hsp70-11  ..T ..G AT. T.A A.A A.. GCC GAG --- --- ..A TT. GG. ..A ACA A.. .A. --- ... AA. GAG .A. A.. .AA .AA A..
Cbr-hsp70-11  ..T ..A ATC .AA A.A A.T TCT GAA --- --- ..A TT. G.A ..A ACC A.C .AC --- G.T AA. GAG .A. A.. .AA .AG A..
Cel-hsp110-1  ... ... A.A AAA ... ... ... ACA --- --- ..A T.. GGA .TT ... GCC ..A A.A TCT ..T ... C.A TGG .TA ... ..C
Cbr-hsp110-1  ..T ... A.A AAG ... ... ... ACT --- --- ..A T.. GGA .TC ..C GC. T.C A.T TCT ... ..A C.A TGG .T. ..G ...
Cel-hsp110-2  .TT A.T GAG ATG TTC GAG ... AAT TAT AAA CC. A.G .CA ... .TC AA. A.G AA. .GA AG. GCG ATG ACA AAG TT. TCA
Cbr-hsp110-2  ... C.T ATC .AG AT. ..T G.. AAG ACT TAT ..A .CA ..A .CT A.A G.C AAC A.. ... AG. A.A ..G T.C GCC AAA T.C
Cel-hsp110-3  ... ..G GAA AAG .T. ... CGT GAT ACT GTC ..A ACG TCA ... ... A.. T.A A.. ..T G.T ..A ... A.. G.A AAA ..G
Cbr-hsp110-3  ... C.. GAA AGG .TA ... CGT GA. ACT GTG .GC ACA TCA ... ..C A.C A.C A.. ..T G.. ... ... A.. G.C AAG ..G
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..C A.. T.. GAG ..T ... ..C ..C A.. ... ... ...
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ... ..T ATC A.A ..A ... ... AAA --- --- ... GCT GGA ..A ..C A.. T.. GAG ..T ... ..C ..C A.. ... ... ...
Cbr-hsp70-20  ... ..T ATC A.A ..A ... ... AAA --- --- ... GCT GGA ..A ..C A.. T.. GAG ..T ... ..C ..C A.. ... ... ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   CGT ACC GCC TGC GAG CGC GCA AAG AGA ACT CTT TCG TCG TCT TCC CAG GCT TCA ATT GAG ATC GAT TCT CTC TTC GAG
Cbr-hsp70-1   ... ..T ..T ... ... ... ... ... ... ... ... ... ... ... ... ... ... ..G ..C ... ..T ... ... ..A ... ..A
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ... CGT .AG GT. ... AAG ... ... ... G.. ..C ..C A.T CAA CAT ..A A.C AAG G.. ... ..T ..A ... ..T ... ..C
Cbr-hsp70-3   ... CGT .AA GT. ... AAG ..C ... ... G.. ..C ..C A.C CAA CA. ..A A.C AAG G.. ... ... ..G ..C ... ... ..C
Cel-hsp70-4   ..C CGT .AG GTA ..A AAG ..C ... ..G G.. T.G ..A A.C CAG CAT ..A A.. AAG ..C ... ... ..G ..A ... ... ..T
Cbr-hsp70-4   ... CGT .AG GTT ..A AAG ... ... ... G.. ..G ..C A.C CAG CAT ... A.C AAG ... ... ... ..A ..C ..T .A. ..C
Cel-hsp70-6   ... GAA ... GC. ... AAG ..C ... T.C GAA ... ..A ..C A.C A.. ... A.C GAC ... A.T C.T CCA .AC A.. AC. AT.
Cbr-hsp70-6   ... GAA ... GC. ... AAG ..C ... T.C GAG ... ..C ..C A.C A.. ..A A.C GAC ... A.C C.T CCA .AC A.. AC. AT.
Cel-hsp70-7   ..A ..T ..T ..T ..A ..T ..C ... ... ..A ... ..A AGT ..A ..G G.A ..A .GT G.. ..A G.T ... ..A ..G ..T ..A
Cel-hsp70-8   ..A ..T ..T ..T ..A ..T ..C ... ... ..A ... ..A AGT ..A ..G G.A ..A .GT G.. ..A G.T ... ..A ..G ..T ..A
Cbr-hsp70-7   ..A ... ... ..T ..A ..T ..C ... ... ..A ... ..T AGC ..A ..G G.A ..C A.T G.. ..A G.G ... ... ..A ... ..A
Cbr-hsp70-8   ..A ... ... ..T ..A ..T ..C ... ... ..A ... ..T AGT ..A ..G G.A ..C A.T G.. ..A G.G ... ... ..T ... ..A
Cbr-hsp70-14  ..A ... ... ..T ..A ..T ..C ... ... ..A ... ..T AGC ..A ..G G.A ..C A.T G.. ..A G.G ... ... ..A ... ..A
Cel-hsp70-9   ..A ..G ..A ..T ..A ..T ..T ... C.T ... ... ..C AGT ..C A.T G.A ..A A.T G.A ... G.. ... ..G T.A ..T ..T
Cbr-hsp70-9   ..C ... ... ..T ... ..T ... ... C.C ... ..G ..A AGC ..C A.. G.. ... A.T G.A ..A G.T ..C ..G ..G ... ..T
Cel-hsp70-10  A.A .AA ..A GC. ... GTG ... ... .TC ..G T.A ... G.A AG. ..G GTT ... AGG ... ... C.. ..A .GC T.A CA. CTC
Cbr-hsp70-10  ..A .AA T.G GCT ..A ACT ..G ..A .TC ..A ... ..A G.T AGC AA. GT. ..A AG. ... ... G.A ..A .G. T.A CA. CTT
Cel-hsp70-11  ..A .TG .AA GTT ..A AAA .G. ..A .TC .GG ..G A.. AAT GT. C.A TCC A.A A.. ... TCA C.T A.. CTC AAA ACA .TC
Cbr-hsp70-11  ..A CTG .AA GTG ..A AAG .GG ..A .TT .GA T.A A.A AAT GT. C.A TC. A.G A.G ... TCA T.G A.. CTG AAG ACA .TT
Cel-hsp110-1  TTG GA. .AA ..T ... ..T .TG ... .AG CAA A.G ..A G.A AA. CAA ACT C.A ATT CCA CT. .A. AT. GAA TG. ..T AT.
Cbr-hsp110-1  .T. GAT .AG ..T ... ..A .TG ... .A. CAG A.G ..T G.. AA. CAA ACA C.A ATT CCG CTC .A. AT. GAA TG. ... AT.
Cel-hsp110-2  AAA GAA ..T GAA AGA TTG AAG C.A GTT CTA TC. G.C AAT G.C GAA ..T TT. G.T CAA ATC GAG AG. G.. .AT GAA ..T
Cbr-hsp110-2  GCC .AG .AG GCA ..A ..T TT. ..A CA. GT. T.G ..T G.. AAC G.T G.A CA. .TT GC. C.A ..T ..G AG. GCT CAT ..A
Cel-hsp110-3  .A. .AA .AA GCT ..A ..T .TC ... CA. GTG ..A ..T G.A AAC AAA G.C A.A .AT GC. C.A G.A ..G AGC T.G ... ..A
Cbr-hsp110-3  .AC .AA .AA GCG ..A ..T .TC ..A CA. GT. ..C ... G.C AAC A.. G.A A.C .AT GC. C.A G.. ..A AG. ..T ..T ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  ..C GA. ... ..T ... .AT ..C ... C.C ..G T.G ..T AGC AAA A.. G.T ... A.T G.A ..A G.T ..G ..G ..G G.T ..T
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  ..C GA. ... ..T ... .AT ..C ... C.C ..G T.- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ..C GA. ... ..T ... .AT ..C ... C.C ..G T.G ..T AGC AAA A.. G.T ... A.T G.A ..A G.T ..G ..G ..G G.T ..T
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   GGA ATT GAC --- --- --- --- TTC TAC ACC AAC ATC ACT --- --- --- --- --- CGT GCT CGT TTC GAG GAG CTC TGC
Cbr-hsp70-1   ... ..C ..T --- --- --- --- ... ... ... ... ... ... --- --- --- --- --- ... ... ... ..T ... ... ..T ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ... GAA ... --- --- --- --- ... .CT GAG .C. C.T ... --- --- --- --- --- ... ..C AAG ... ... ... ... AA.
Cbr-hsp70-3   ... GAA ... --- --- --- --- ... .CT GAA .C. C.. ..C --- --- --- --- --- ... ..C AAG ... ... ... ..T AA.
Cel-hsp70-4   ... GAA ... --- --- --- --- ... .CA GAG .CT T.G ... --- --- --- --- --- ... ..C AAG ..T ... ... ... AAT
Cbr-hsp70-4   ... GAA ... --- --- --- --- ... .CG GAG .C. C.G ..C --- --- --- --- --- ..C ..C AAG ..T ..A ..A ... AA.
Cel-hsp70-6   .AT CAA TCT GGA CCA AAA CAT C.T A.. TTG ..G C.. ..C --- --- --- --- --- A.A ..C AAG ... ... C.. A.T GT.
Cbr-hsp70-6   .AT CAA TCT GGA CCA AAA CAT C.T A.. TTG ..G C.A ..C --- --- --- --- --- A.A ..C AAG ... ... C.A A.. GTT
Cel-hsp70-7   ... ... ..T --- --- --- --- C.A .G. ..A ..G ... ... --- --- --- --- --- ... ... ... ... ..A ..A ..G ..T
Cel-hsp70-8   ... ... ..T --- --- --- --- C.A .G. ..A ..G ... ... --- --- --- --- --- ... ... ... ... ..A ..A ..G ..T
Cbr-hsp70-7   ... ..C ..T --- --- --- --- ..G .G. T.A ..G ... ... --- --- --- --- --- ... ... ..A ... ... ..A ... ..T
Cbr-hsp70-8   ... ..C ..T --- --- --- --- ..G .G. T.A ..G ... ... --- --- --- --- --- ... ... ..A ... ... ..A ... ..T
Cbr-hsp70-14  ... ..C ..T --- --- --- --- ..G .G. T.A ..G ... ... --- --- --- --- --- ... ... ..A ... ... ..A ... ..T
Cel-hsp70-9   ... .C. ..T --- --- --- --- ... ..T T.G ..A ... ..A --- --- --- --- --- ... ..A A.A ... ..A ... ... ..T
Cbr-hsp70-9   ..T GC. ..T --- --- --- --- ... ..T T.A ..G ... ..G --- --- --- --- --- ..A ..C A.A ... ... ... ... ..T
Cel-hsp70-10  ..T ..A ..T --- --- --- --- ... AT. .TG .GA ... .GC --- --- --- --- --- ..A A.G GA. ... ..A TCT TGG AT.
Cbr-hsp70-10  ... ... ... --- --- --- --- C.T ACT .TG ..G ... ... --- --- --- --- --- ..A T.A GA. .AT ..A TCT TGG AT.
Cel-hsp70-11  ... .AG TGG AAT --- --- --- --- --- TAT G.A T.A ..A --- --- --- --- --- ... .AC GAA ..T ..A ACT T.G AAT
Cbr-hsp70-11  ... .AG TGG AGT --- --- --- --- --- TAT G.A T.G ..A --- --- --- --- --- ..A .AA GAA ... ..A A.. T.G AAT
Cel-hsp110-1  .AG GA. A.G GAT --- --- --- G.T ACT GGA ..G ..G CAA --- --- --- --- --- ... CAA GAA ..T ... ..T ..T GCA
Cbr-hsp110-1  .A. GAC A.G GAT --- --- --- G.. AC. GGA ..G ..G CAG --- --- --- --- --- ... CAG GAG ... ..A ..A ..A GCA
Cel-hsp110-2  ATC GA. .CT --- --- --- --- AAA CTG .AA GT. .CT CG. --- --- --- --- --- GAG .A. TTC AAT C.T CTT A.T .C.
Cbr-hsp110-2  .AC ... ..T --- --- --- --- GCG A.A CTG ..G ..G ..C --- --- --- --- --- ... .AA GAA ... A.T CGC ... ATT
Cel-hsp110-3  .AG CAA A.. --- --- --- --- ... AGA G.. ..G G.A .TC AAC CTT CTG GTT ACT ..C .AA GAA C.T ..A A.A A.G ATT
Cbr-hsp110-3  .AG CAG A.T --- --- --- --- ... AGA G.A ..G G.A ..A --- --- --- --- --- ... .A. GAG C.. ... A.. A.G ATT
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  ..T ..C ..T --- --- --- --- ... A.A T.G ..A ... ... --- --- --- --- --- ..A ..C AAA ..T ... ..A ... ...
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ..T ..C ..T --- --- --- --- ... A.A T.G ..A ... ... --- --- --- --- --- ..A ..C AAA ..T ... ..A ... ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   GCT GAT CTC TTC AGA TCC ACC ATG GAC CCA GTC GAG AAG TCT CTC CGT GAC --- GCC AAG ATG GAC AAG AGC CAA GTT
Cbr-hsp70-1   ... ... ... ... ... ... ... ... ... ... ... ... ... ... ... ..T ... ... --- ... ... ... ... ... ..T ... ..C
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- G.G ...
Cel-hsp70-3   ATG ... ... ... C.T G.. ... C.T A.G ... ... C.. ... GT. ..T GAA ..T --- T.T G.T C.T A.G ... GAT G.T ...
Cbr-hsp70-3   ATG ..C ... ... C.C G.T ... C.C A.G ... ... C.. ... GT. ..T GAA ... --- T.T G.C C.T A.G ... GAT G.C ...
Cel-hsp70-4   ATG ..C T.G ... C.T G.T ..A T.. A.G ..G ..T C.. ..A GT. T.G GAA ..T --- ..T G.C ... A.G ..A .CT G.T ..C
Cbr-hsp70-4   ATG ... ... ... C.T G.. ..T C.T A.G ... ... C.A ... GT. ..A GAA ..T --- ... G.T ... A.G ... .CT G.C ...
Cel-hsp70-6   .GA ... ... A.. .AG AGA ... ..T ..G ... TG. CGT ... G.. ..T .AC ... --- ..T G.A G.C A.G TCC TC. ... A.C
Cbr-hsp70-6   .GA ... ... A.. .AG AGA ... ..C ..G ... TG. CGC ... G.A ... .AC ..T --- ..T G.. G.C A.G TCT TCT ... A..
Cel-hsp70-7   ... ... ..A ... C.G AAA ..T C.. ..A ... ..T ... ... G.. ..T ..A ..T --- ..T ..A C.T ... ..A TCA A.G A.C
Cel-hsp70-8   ... ... ..A ... C.G AAA ..T C.. ..A ... ..T ... ... G.. ..T ..A ..T --- ..T ..A C.T ... ..A TCA A.G A.C
Cbr-hsp70-7   ... ... ..T ... C.. AAA ..T C.T ..A ... ..T ... ... G.. ..T ..A ..T --- ..A ... C.C ... ..A TC. A.C A..
Cbr-hsp70-8   ... ... ..A ... C.. AAA ..T C.T ..A ... ..T .C. ... G.. ..T ..A ... --- ..A ..A C.C ... ..A TC. A.G A..
Cbr-hsp70-14  ... ... ..T ... C.. AAA ..T C.T ..A ... ..T ... ... G.. ..T ..A ..T --- ..A ... C.C ... ..A TC. A.C A..
Cel-hsp70-9   ... ... ..T ... C.C AAG ..T T.. ..G ..G ..T ..A ... G.A ..T ... ..T --- ..A ..A .CT ..T ..A G.. AG. A.C
Cbr-hsp70-9   ..G ... T.G ... C.G AAG ..G T.A ..A ..C ..G ... ... G.A T.G A.A ... --- ... ... ... ..T ... GCT AG. A..
Cel-hsp70-10  .AA A.. ..T ..A .TG G.T ..A G.A AT. .AC ..G ..A CG. GT. A.. ..A ..A --- ..G ..T C.C A.A ..A TCT ..G A.C
Cbr-hsp70-10  .AG A.. ..T C.A .TG G.. ..G G.. AT. .AT ..G ..A CGA G.C A.T ..A ..A --- ..G ..T C.. A.A ... TC. ... A..
Cel-hsp70-11  .GC ... T.A C.. .AG G.A .TT GAA CTT ... A.T AC. GCA G.. T.A GC. ..T --- ..A ..T T.. ..T .CT GCT G.T ..G
Cbr-hsp70-11  .AG ... T.G C.G .A. ... .TT GAA TTG ..G A.T .CA GCA G.G T.G GAG ..T --- ... ..C C.. ... .CC GC. G.T ..C
Cel-hsp110-1  ... CCA A.T ... .AC CGT .T. .A. C.G GTT C.. ATT ..C .TG T.. GCA ... GGA .TG TCT ..C A.G CC. GAA G.. A..
Cbr-hsp110-1  ..A CCA A.. ... .AT CGT .T. .A. C.A GTT C.T .TC ..C .TG T.. ACG ..A GAT .TT GCC ..C A.G CCA GAA G.T ..C
Cel-hsp110-2  .AC ATG GAA .CT C.T .TT GG. GA. CCA ATT .AA C.. GCT CT. .GG ATG .CT --- CAG .TT CCT AT. G.T GAT ATT .A.
Cbr-hsp110-2  .AA ..C A.G ACA CC. AGA TTT GG. ..A ... A.T ... C.A G.A ..G ..A ATG --- ..T C.. ..T CCA .TC GAA G.T A..
Cel-hsp110-3  .AG ... ... GAG CC. AGA .T. GCC .CT ... A.. CTC G.C G.C A.. G.A ATG --- ..T C.A ..C AG. .CC .AT G.C A.C
Cbr-hsp110-3  .AG ..C ..T GAA CC. AGA .TT GCT .C. ..G A.T CTT G.C G.. ..T G.A ATG --- T.T C.. C.C A.G GTC GAG G.C ..C
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  --- --- --- --- --- --- --- ..G T.. ..G .TG TGG AGA GG. CG. TGA A.G --- --- ATA GC. .GA T.G .TA .AA .C. AGA
Cbr-hsp70-17  ... ... T.G ... CAG AAG ..G T.. ..G ..T ..G ... .G. G.G T.G AAG ..T --- AG. G.. ..A ..T ..A .C. A.G A..
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... ... T.G ... CAG AAG ..G T.. ..G ..T ..G ... .G. G.G T.G AAG ..T --- AG. G.. ..A ..T ..A .C. A.G A..
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   CAT GAC ATC GTC CTT GTC GGA GGA TCC ACT CGT ATC CCA AAG GTC CAG AAA CTT TTG TCC GAT CTC TTC TCA GGA ---
Cbr-hsp70-1   ..C ... ... ..T ... ..A ... ... ..G ... ... ..T ... ... ... ... ... ... C.T ..T ..C ..T ... ..C ... ---
Cel-hsp70-2   ... ... ... ... ... ..T ... ... ..T ... T.. ... ... ... .C. ... ... ..G ... ..T ..C ..T ... ... ... ---
Cel-hsp70-3   ..C ..G ..T ..T ..C ... ... ... ... ... A.A ..T ... ... ... ..A C.G ..C A.C AAG ..G T.. ... AAC ... ---
Cbr-hsp70-3   ..C ..G ..T ..T ... ... ... ... ..T ..C A.A ..T ... ... ..T ..A C.. ..C A.C AAG ..G T.. ... AAC ... ---
Cel-hsp70-4   ..C ..G ... ..A ..G ..A ... ... ..A ..C A.A ..T ... ... ..T ..A C.. ... A.C AAG ..C TA. ... AAC ..C ---
Cbr-hsp70-4   ..C ..A ... ... T.G ... ... ... ... ..A A.A ... ... ... ..T ... C.. ... A.C AAG ..C T.. ... AAC ... ---
Cel-hsp70-6   GCC ..T G.T C.T ..C ..A ... ... ATG .GC A.A ..G ... ... ..G ..A GCC AC. G.T CAA ..A A.. ... GG. --- ---
Cbr-hsp70-6   GCC ... G.T A.T ... ... ... ... ATG .GC A.A ..G ... ... ... ..A .CT ACC G.T CAA ..G A.. ... GG. --- ---
Cel-hsp70-7   G.. ..A G.T ..G T.G ... ... ... ... ... ... G.T ..G ..A A.T ..A ... T.G C.. AAA ..C T.. ... AAT ... ---
Cel-hsp70-8   G.. ..A G.T ..G T.G ... ... ... ... ... ... G.T ..G ..A A.T ..A ... T.G C.. AAA ..C T.. ... AAT ... ---
Cbr-hsp70-7   G.. ..A G.. ..T T.G ..T ... ... ..T ... ... G.T ... ... A.T ... ..G A.G C.C CAG ..C T.T ... AAC ... ---
Cbr-hsp70-8   G.. ..G .AG A.G ..C AAG --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..C T.T ... AAC ... ---
Cbr-hsp70-14  G.. ..A G.. ..T T.G ..T ... ... ..T ... ... G.T ... ... A.T ... ..G A.G C.C CAG ..C T.T ... AAC ... ---
Cel-hsp70-9   G.. ..A G.T ... T.G ..T ..G ... ..A ... ... ..A ..G ... A.T ... ... ..A C.. AAG ..G T.T ... AAT ..G ---
Cbr-hsp70-9   G.. ..G G.G A.A T.G ..G ... ... ..T ..A A.G G.G ... ... ..T ... ..G T.G C.C AAG ..C T.. ... AAT ..C ---
Cel-hsp70-10  A.C ..A ..T ..G ..A ..T ..C ... AG. ..A ..A ..T ..C .TT T.A A.. ..C A.. A.C AAA C.A AGT ..T GA. TC. AAT
Cbr-hsp70-10  A.C ..A ..T ..G T.G ..T ... ... AG. ... ..A ..T ... TTA T.G A.. ... A.. A.C AAA .CA AGT ... GAC .AC AAT
Cel-hsp70-11  G.C ..A ..T ..A ..C ..T ..C ..T ..A ..A .AA G.T ..T GCC ... AGA ... A.. G.. GG. AGA T.T ... AA. AAG ---
Cbr-hsp70-11  G.. ..A ... ..A ..G ..T ... ... ..G ... .AA G.T ... GCA ..G AGA ... A.C G.T GG. CGA T.T ... AAG AA. ---
Cel-hsp110-1  G.C ..G ... .AA A.. ... ... ... ..T T.A A.A ..T ..G .T. A.. AGA G.G A.. G.C AAG ... ..T ... GG. AAG ---
Cbr-hsp110-1  G.A ..A ..T .AA A.. ..T ... ... ..T T.G A.A ..T ... .T. A.. AGA C.. A.C G.T AAA ... ..T ..T GG. AA. ---
Cel-hsp110-2  ..A TTT G.G C.G A.G .GA .CT ... A.. .GA GTG CCA AA. GTA CAG G.A .TT G.G CA. AAA ACA A.T GGA A.. AA. ---
Cbr-hsp110-2  G.. C.A T.T ..T T.G A.G ... .C. GGA ..G A.A G.G ... ..A ..A ..A G.. G.. G.T CAG A.A ACT A.T GG. ACG ---
Cel-hsp110-3  G.. TTG G.T ..T ..C A.G ... .CT GGA ... ... G.G ... ..A ..G A.. G.. A.C C.C AAG ACC A.T C.A AAG .AC ---
Cbr-hsp110-3  G.C TTG ..T ..T T.G A.G ... .CC GGA ... ... G.G ... ..A ... A.. G.. A.C C.. AAG TCA A.T ..G AA. .AC ---
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  TTG ATG .GA T.G TG. TGG T.G .AG GAT CG. ..A .GG TGC CGA AGA TTC .G. AG. .GC ..A ..G ACT .CT .T. ATG ---
Cbr-hsp70-17  G.. ..G ..T ..G T.G ..G ... ... ..G T.G AAG G.G ..G ... A.T ... ..G T.G C.C AGA ..C T.. ..T AAT ..G ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  G.. ..G ..T ..G T.G ..G ... ... ..G T.G AAG G.G ..G ... A.T ... ..G T.G C.C AGA ..C T.. ..T AAT ..G ---
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   AAG GAA TTG AAC AAG TCC ATC AAC CCA GAT GAG GCC GTT GCC TAC GGA GCT GCC GTC CAA GCC GCT ATC CTC TCC GGA
Cbr-hsp70-1   ... ... C.C ... ... ..T ... ... ... ..C ..A ..T ... ... ... ... ..C ..T ... ... ..T ... ..T ... ... ...
Cel-hsp70-2   ... ... ... ... ... ... ... ... ..C ... ... ... ... ... ... ... ..T ... ... ... ... ... ... ... ... ...
Cel-hsp70-3   ... ..G CCA TC. CGC GGA ... ... ..T ..C ... ... ..C ... ... ... ..C ... ... ... .GA .GA G.T A.. ..T ...
Cbr-hsp70-3   ... ..G CCA TC. CGC GGA ... ... ..T ... ... ... ..C ... ... ... ..C ... ..T ... .GA .GA G.T A.. ..T ...
Cel-hsp70-4   ... ..G CCA TCT CGT GGA ... ... ..T ..C ..A ..A ... ..T ... ... ... ..T ..T ... ..A .GA G.A A.. GGA ..T
Cbr-hsp70-4   ..A ..G CCA TCT CGT GGA ... ..T ..T ..C ..A ..T ..C ..T ... ... ... ... ..G ... .GA .GA G.T A.T GGT ..T
Cel-hsp70-6   ..A .TT CCA TCA ... G.T G.. ... ... ..C ... ... ..C ... ATG ... ... ..T A.T ... .GA ..C G.. T.G G.. ...
Cbr-hsp70-6   ... .TT CCA TCT ... G.. G.. ... ... ..C ... ..T ... ..T ATG ... ... ..T A.. ... .GA ... G.T T.G G.T ...
Cel-hsp70-7   ... ... ... ... TGC ... ... ..T ... ... ..A ..A ... ..A .TT ..T ... ..A ..T ... ..A ... G.A ..T ..T ..T
Cel-hsp70-8   ... ... ... ... TGC ... ... ..T ... ... ..A ..A ... ..A .TT ..T ... ..A ..T ... ..A ... G.A ..T ..T ..T
Cbr-hsp70-7   ... ... C.. ..T TGC ..A ... ..T ... ... ..A ..T ... ..A .T. ... ... ..A ..T ... ..A ... G.A ..T ..T ...
Cbr-hsp70-8   ..A ... C.. ..T TGC ..A ... ..T ... ... ..A ..T ... ..A .T. ... ... ..A ..T ... ..A ... G.A ..T ..T ...
Cbr-hsp70-14  ... ... C.. ..T TGC ..A ... ..T ... ... ..A ..T ... ..A .T. ... ... ..A ..T ... ..A ... G.A ..T ..T ...
Cel-hsp70-9   ... ..C C.C ... TGC ... ..T ..T ... ..C ..A ..A ..A ... .TT ..T ..A ... ..T ... ..A ... G.A ..T ..T ...
Cbr-hsp70-9   ... ... C.C ... TGC ..T ... ... ... ..C ..A ..A ... ... .T. ..C ... ... ..T ... ..T ..A G.. ..T ... ..C
Cel-hsp70-10  .CA AG. A.T TGT G.A ..A ..A C.T ..G ... ..A ..G ..G ..G ... ..T ..G ..G A.T ATG ..T ..G G.G ..A ..A ..C
Cbr-hsp70-10  .CT A.. A.T TGT G.A ... ..T C.T ..C ... ... ..T ..G ..A ..T ... ... ..T ..G ATG ..T ..A G.G T.G A.A ...
Cel-hsp70-11  --- TCT GCC ..T T.C GGT G.. G.. ... ..A CTT ... ..C .TA ACA ... ... T.T ..T ... ..T .G. G.. A.. GGT ..T
Cbr-hsp70-11  --- TCC GCC ... T.C GGT G.G G.. ... ..G CTC ... ..G .TG ACT ..G ... T.T ... ... ..G .GA G.G A.. GGT ..C
Cel-hsp110-1  --- ... CC. ..A .CC A.G ..G ..T .A. ..C ... ..T ..C ..T CGT ... ... ... A.G ... TGT ..A ..T ..T ..T CCC
Cbr-hsp110-1  --- ... CC. ..A .CC A.G ..G ..T .A. ... ... ..T ..A ..T CGT ... ... ... A.G ..G TG. ... ..T ..T ..A CC.
Cel-hsp110-2  G.. ATC GGA ..G TTC CTG .A. .CT GAT ..A .CC .T. .C. ATG GGA .CC CTA TTT CAA GC. ..T CA. C.. AGT AAA ...
Cbr-hsp110-2  ... ... A.C GGA ... .T. T.G ... A.T ... ..A ... ... ..A ATG ..T T.C CTT T.. ... ..T ... CA. ... AG. AA.
Cel-hsp110-3  ... ... A.C .G. ..T .T. C.G ... A.T ... ..A ..T A.C ... ATG ... ... .T. TAT ... ..T ... CAT T.G ... AAG
Cbr-hsp110-3  ... ... A.C .G. ..C .T. T.G ... A.C ..C ... ..T A.C ... ATG ... ... .T. TA. ... ..G ..C CAT T.G ... AA.
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  GGA AGG AAC TCA .CT G.T C.A TCA A.C C.G AT. AAG CGG TTG CTT TCG .AG CTG CCG TTC AAG CTG CAG TC. ..T CTG
Cbr-hsp70-17  ... ... C.C ... TGC ..T ... ... ... ... ..A ..G ... ..T .T. ... ... ... ..T ... ..T ..A G.. ... ..T ...
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... --- C.C ... TGC ..T ... ... ... ... ..A ..G ... ..T .T. ... ... ... ..T ... ..T ..A G.. ... ..T ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   GAC AAG TCT GAG GCT GTC CAG GAT CTT CTT CTT CTT GAC GTT GCC CCA CTT TCC CTT GGT ATT GAG ACC GCT GGA GGA
Cbr-hsp70-1   ..T ... ..G ... ... ..T ..A ... ... ... ... ..C ... ... ..T ... ... ..T ... ... ..C ... ..T ... ... ...
Cel-hsp70-2   ... ... ... ... .AC .C. A.. ... --- ... ..A ..G ... AC. T.T ... ... --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ..G G.A GAC ACT .GA --- --- ..G A.. G.. ... ... ..T ..C AAT ..G ... A.. A.G ... ... ... ..T .TC ... ...
Cbr-hsp70-3   ..G G.A GAC ACT .GA --- --- ..G A.C G.. ... ..C ... ..C AA. ... ... A.. A.G ... ..C ... ..T .TC ... ...
Cel-hsp70-4   .T. G.A AA. ACC .GA --- --- ... G.. G.C ... ... ... ..C AAT ... ..C A.T ..G ... ... ... ..T .TC ... ...
Cbr-hsp70-4   .TG G.A AAC ACA .GA --- --- ..C G.C G.. ... ..C ..T ..C AA. ..T ..C A.T A.G ..A ... ..A ..T .TC ... ...
Cel-hsp70-6   --- --- --- --- .AC ... ACC ... G.. ... ..C ... ..T ..C A.T ... ... ... ... ... ..C ... ..T CTC ... ...
Cbr-hsp70-6   --- --- --- --- .A. ... ACC ..C G.. ..C ... ... ... A.T ... ... ..T ... ... ... ... CTC ... ...
Cel-hsp70-7   .T. ... GA. ..A A.A A.. A.. ... G.G T.G ..G G.. ..T ... ..T ... T.G AG. ... ..A ... ..A ..A ... ... ..T
Cel-hsp70-8   .T. ... GA. ..A A.A A.. A.. ... G.G T.G ..G G.. ..T ... ..T ... T.G AG. ... ..A ... ..A ..A ... ... ..T
Cbr-hsp70-7   .T. ... GA. C.A A.A A.. A.A ... G.A T.G ..G G.. ... ... ..T ... ..G AGT ... ..A ..C ... ..A ... ..T ..T
Cbr-hsp70-8   .T. ... GA. C.C A.A A.. A.A ... G.A T.G ..G G.. ..T ... ..T ... ..G AGT ... ..A ..C ... ..A ... ..T ..T
Cbr-hsp70-14  .T. ... GA. C.A A.A A.. A.A ... G.A T.G ..G G.. ... ... ..T ... ..G AGT ... ..A ..C ... ..A ... ..T ..T
Cel-hsp70-9   .TA ..A GA. ..T A.. A.. A.. ... G.. T.A ..C G.. ..T ... .T. ... ..A AGT .A. ..A ... ..A ..A ... ... ...
Cbr-hsp70-9   .T. ..A GA. ..C A.. A.. A.A ... G.C T.G ..C G.C ... ..G ..T ..T T.A AG. T.G ..A ..C ... ..T ... ... ..G
Cel-hsp70-10  --- --- G.A ..A .AA ..T ..A ..C A.G .G. T.G A.. ..T ..C ATT ... A.G ..A A.. ... G.. C.A TGT AA. C.T .AT
Cbr-hsp70-10  --- --- GTG ..A .AA ..T ..A ..C A.G .GC ..G A.A ... A.G ATT ... A.G ..A A.. ..A ..A C.. TG. AA. A.. .AC
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  ACT TTC CG. .TT CG. .AG TTC .CC A.C AAA GA. AC. C.G CCA TAT .GT A.. CGT ..C A.C TGG A.C .GT A.A ... .A.
Cbr-hsp110-1  ACA TTC CG. .TT CG. .AG TTC .CC A.C AAG GAC TCG C.G CCG TA. .GT A.. CGT ..C A.C TGG A.C GGA C.A ... .AC
Cel-hsp110-2  TT. ..A GTC A.. C.G T.. A.C ATC GAG GAA AAA G.. ATT T.C C.T GTT GAA GTT .A. TT. G.C AGC .AA AT. C.. .AT
Cbr-hsp110-2  .GG TTT AAG .TC AAG CCT TTC A.. G.G GAG GAA AAA TTA A.C TT. ... G.G GAG G.. CA. T.C .T. .G. AAG .TC AAG
Cel-hsp110-3  TCA TTC AAA .TT TTG CCA TTC A.C G.. .AC GAG AAG AT. C.G TAT ... G.G .T. G.. AAC T.C CTC ..A AAA ACC .A.
Cbr-hsp110-3  TC. TTC AAG .TT CT. CCG TTC A.C A.C .AC GAG AAG ATT C.. TA. ..T G.C .TT G.G AAC T.C C.A ..G AAA AC. .AG
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  ..G TCA GAG AT. A.A CCA TCA AGG ACG TCG TCC TC. ATG ACG TGA .TC ..C .GA G.. T.G GAA TCA .G. TTG TTG .AG
Cbr-hsp70-17  .T. .GA GA. ..C A.C A.. A.. ..C G.C G.C ..C TA. ... ..G A.T ..T ..G AGT T.G ..A .CC ..T GTT .T. ... ...
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  .T. .GA GA. ..C A.C A.. A.. ..C G.C G.C ..C TA. ... ..G A.T ..T ..G AGT T.G ..A G.C A.. .TT .T. ... ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   GTC ATG --- --- --- --- --- --- --- --- --- --- --- --- ACT GCT CTC ATC AAG AGA AAC ACC ACC ATC CCA ACC
Cbr-hsp70-1   ... ... --- --- --- --- --- --- --- --- --- --- --- --- ... ... ... ... ... ... ... ... ..A ... ... ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- T.. A.T T.T
Cel-hsp70-3   ..T ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AAG ..T ..T GGC C.T ... ..T GTT ... ... ...
Cbr-hsp70-3   ... ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AAG ..T ... TCC C.T ... ... GT. ... ... ...
Cel-hsp70-4   ... ... --- --- --- --- --- --- --- --- --- --- --- --- ... AAG T.G ..T GGA ... ..T ... GTT ... ... ..A
Cbr-hsp70-4   ... ... --- --- --- --- --- --- --- --- --- --- --- --- ... AAG ... ... TCC ... ... ..T GT. ..T ..C ..A
Cel-hsp70-6   A.T ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AAA ... ... .CC ... ... ..T ... ... ... ..T
Cbr-hsp70-6   A.. ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AAG ..G ... .CT ... ... ... ... ... ... ...
Cel-hsp70-7   ..G ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ..G ..T G.T C.. ... ..T CGA ..T ... ..A
Cel-hsp70-8   ..G ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ..G ..T G.T C.. ... ..T CGA ..T ... ..A
Cbr-hsp70-7   ..G ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ... ..T G.T C.. ... ... .GA ..T ... ..A
Cbr-hsp70-8   ..G ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ... ..T G.T C.. ... ... .GA ..T ... ..A
Cbr-hsp70-14  ..G ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ... ..T G.T C.. ... ... .GA ..T ... ..A
Cel-hsp70-9   ..A ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. T.G ..T G.T ... ... ..T .GA ..T ..T G..
Cbr-hsp70-9   ... ... --- --- --- --- --- --- --- --- --- --- --- --- ..C AA. ... ... G.T C.T ... ... CGT ... ... G.A
Cel-hsp70-10  TAT ... --- --- --- --- --- --- --- --- --- --- --- --- T.A .T. ..T ..T ..A .AG GGA ..G GTT T.. ... TGT
Cbr-hsp70-10  TAT ... --- --- --- --- --- --- --- --- --- --- --- --- T.G .TG ..T ... ... .AG GGT ..T GTA T.T ... TG.
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  AA. GGA --- --- --- --- --- --- --- --- --- --- --- --- GGA .AA AA. GA. GTC TTC TCG C.. CGA GA. GAG GTT
Cbr-hsp110-1  AA. GGA --- --- --- --- --- --- --- --- --- --- --- --- GGA .AA AAT GA. GTC TTC GCT C.A CGA GA. GA. GTA
Cel-hsp110-2  .AA .A. ACT GAA GAG ATT ACT GGA GAG AAA AAT GTG GTT AAA ..C TTG T.T GCT GCC .AT TC. GT. TA. CCT A.C CA.
Cbr-hsp110-2  .A. GA. AAA ACG GAG GAG ATT GTG GGC GAG AAA AAC GTA GTT .AG A.. ..T T.T GCT GC. ... T.T GTT TAT ... ...
Cel-hsp110-3  .AA GGA ACC ATG AAG CCA ATC AGA --- --- --- --- --- --- .AA T.G ..T T.. GGA GAG ..T --- --- TAT ... GTA
Cbr-hsp110-3  .AA GGA AGA ATG AAG CCA ATT AGA --- --- --- --- --- --- .AG T.G ..A T.. GGT GAG ... --- --- TAT ... GTG
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  .A. GAA --- --- --- --- --- --- --- --- --- --- --- --- TGA ..A A.G T.A TCA .TC GTA .TA CA. G.A T.C CAG
Cbr-hsp70-17  CGA ... --- --- --- --- --- --- --- --- --- --- --- --- .GC AA. G.T ... ..T C.T ..T ..A CGT ... ... G.A
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  CGA ... --- --- --- --- --- --- --- --- --- --- --- --- .GC AA. G.T ... ..T C.T ..T ..A CGT ... ... G.A
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   AAG ACC GCT CAG ACC TTC ACA ACC TAT TCT GAT AAC CAA CCA GGA GTG TTG ATC CAG GTT TAC GAA GGA GAA CGT GCC
Cbr-hsp70-1   ... ... ... ... ..T ... ... ... ..C ... ..C ... ... ... ... ..T ... ... ... ... ..T ... ... ..G ... ...
Cel-hsp70-2   CC. T.G .AA ..C .AG ..T CAT .GT --- --- --- --- ... ..T --- --- C.A ..T TCA ..A GTG --- --- --- --- ---
Cel-hsp70-3   ... .AG T.C ..A GTT ... T.T ... GCC G.. ..C ... ..G ... ACC ..C ACC ... ... ..C .T. ... ... ... ..C C.A
Cbr-hsp70-3   ... .AG T.. ..A GT. ... T.C ... GCC G.C ..C ... ... ... ACT ..C ACC ... ... ..C .T. ... ... ... ..C C.A
Cel-hsp70-4   ... .AG AGC ..A GTT ... T.T ... GC. G.C ... .GT ..G AGC .CT ..A .CA ... GTT A.. ..T ... ..T ... ..A C.A
Cbr-hsp70-4   ... .AA AG. ..A GT. ... T.. ... GCC G.C ... .G. ... AGT .CT ..C .CC ... GTT A.C ... ... ... ... ..C C.A
Cel-hsp70-6   ... .AG T.C ..A GT. ... T.T ... GCC G.C ... GGA ..G A.T CA. ... CA. ... A.. ..G .T. C.. ... ... ... .AA
Cbr-hsp70-6   ... .AG T.G ..A GT. ... T.T ..T GC. G.C ... GGA ... A.T CA. ... CA. ... A.. ..C ... C.. ... ... ..C .AG
Cel-hsp70-7   ..A G.. TGC A.A ..A ... ..T ..A ... G.. ..C ..T ... ... ..T ..C .CA ..T ..A ..G ..T ... ..T ... ... ..A
Cel-hsp70-8   ..A G.. TGC A.A ..A ... ..T ..A ... G.. ..C ..T ... ... ..T ..C .CA ..T ..A ..G ..T ... ..T ... ... ..A
Cbr-hsp70-7   ... G.A T.A A.A ..A ... ..T ..A ..C G.C ... ..T ... ... ... ..C .CA ..T ..A ..A ... ... ... ... ..A ...
Cbr-hsp70-8   ... G.A T.G A.A ..A ... ..T ..A ... GA. ... ..T ... ... ... ..C .CA ..T ..A ..A ... ... ... ... ... ..G
Cbr-hsp70-14  ... G.A T.A A.A ..A ... ..T ..A ..C G.C ... ..T ... ... ... ..C .CA ..T ..A ..A ... ... ... ... ..A ...
Cel-hsp70-9   ..A G.T T.C A.A ..A ..T ... ..G ... G.A ..C ..T ..G ..T ..T ..C .CT ..T ..A ..A ... ... ... ... ... ..T
Cbr-hsp70-9   ... G.T T.C A.. ..A ... ..T ... ... G.C ..C ... ..G ... ..C ..C .CT ... ... ..C ... ... ... ..G ..A ..T
Cel-hsp70-10  .CA .AG AGG A.. ..T ... .TC .AT AG. GA. ... TTT ..G A.. TC. A.C AAT G.T .CA ... ... ... ... ... ..A .TG
Cbr-hsp70-10  TTC .AA AAG A.. ..G ... .TC .AT AG. GAA ... TTT ... A.. CTC A.T AAT G.G .CA ..C ..T ... ..C ... A.A .T.
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  CCA TT. T.C A.A CTA G.. T.. CTT CT. CGA AG. GGT .CC TTC AAT ..T GAA GC. ..T TAC GCT C.. CC. A.C GT. .T.
Cbr-hsp110-1  CCA TT. T.A A.. CTT G.A T.T CTT CTC CG. AG. GGA .C. TTC CA. ..C GAA GCT ..C TA. GCT C.. CC. A.C GTC .TT
Cel-hsp110-2  CCA .AG A.G ATT T.A ..A ..C T.T ..C ..G ... G.T TTT T.. .TT .CA ... .AA T.T .GA A.A ATC .A. AGT TT. A.G
Cbr-hsp110-2  ..T C.G AAA ACC .TA .CG CT. ..T .CA .A. TCG G.T G.C TTC .CG A.C GCT T.G A.. TAC GGG .C. .TG ..G A.. CTG
Cel-hsp110-3  CCC .A. CGA GT. .TG CAT TTC T.A .CA .A. TCC G.. G.T TTC AAG A.T GAT ... ..A .A. GCT ..T AAG A.C .CA TTG
Cbr-hsp110-3  CCA .A. AGA GTC .TG CAT TTC G.G .CA .AC TC. G.T G.T TTC AAG A.T GAA ..T ..A .AC GCT ..C AAG A.C .CA CT.
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  C.A .TG CTA .C. .G. CAT ... C.A C.G .TG ATG .CA ATC AA. CA. ... CG. .CA TCT TCG .CT ACG AAG ..G AAC .AG
Cbr-hsp70-17  ..T G.T A.C A.. ..G .A. .AG ..A GT. .A. ..C ..T ... A.. ..T ... GAC ... T.C ..C ... ... ... ... ..A ..T
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ..T G.T A.C G.. C.G .A. ..C ..A GT. GA. ..C ..T ... A.. ..T ... GAC TA. TTC ..C ... ... ... ... ..A ..T
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   ATG --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ACC AAG GAC AAC AAC TTG CTC GGA AAG TTC
Cbr-hsp70-1   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ... ... ... ... ..T ... ... ... ... ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TTG TGT CGA C.A GC. CAA ..A CCG CGT CGT
Cel-hsp70-3   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ... ... ... ... C.T CA. ... ... ... ...
Cbr-hsp70-3   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ... ... ... ... C.T CA. ... ... ..A ...
Cel-hsp70-4   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- GTT .T. ... ..T C.. AA. ... ... ..C ...
Cbr-hsp70-4   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- GTT ... ... ..T C.. AAA ... ... ..C ...
Cel-hsp70-6   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- G.. .CC AG. ... ..A C.T ... ..T C.A ...
Cbr-hsp70-6   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- G.T TCC AG. ... ..G A.. ... ... C.A ...
Cel-hsp70-7   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CGT ... ..T C.T CGC ..T ... .CA ...
Cel-hsp70-8   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CGT ... ..T C.T CGC ..T ... .CA ...
Cbr-hsp70-7   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CG. ..T ... C.T CGT ..T ... .CA ...
Cbr-hsp70-8   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CG. ..T ... C.T CGT ..T ... .CA ...
Cbr-hsp70-14  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CG. ..T ... C.T CGT ..T ... .CA ...
Cel-hsp70-9   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T CGA ..T ..T C.T CGT ..T ... .CA ..T
Cbr-hsp70-9   ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..A .GA ... ..T C.. CGA ..T ... .CC ...
Cel-hsp70-10  T.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TGT TCA C.. ... CG. CAA ... ... G.A A.A
Cbr-hsp70-10  C.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TG. TCC C.T ..T CG. CAA ... ..G G.A A..
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  CCA --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- CAT ..C C.G GTT C.T A.T GGA TCT TG. AAA
Cbr-hsp110-1  CCC --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- CA. ..C C.A GTT C.T A.T GGT TCC TG. AAA
Cel-hsp110-2  .A. CAA CAA GTT CAA GAA ATT GGA AGT TTG TTG GAT AAT CTC GTT GAT GTT G.A ATT .GT GGT C.. AGT .AG GCA ..G
Cbr-hsp110-2  .C. AAG AAG CAA TTG CAA GAG GTT GGA AAT CTA CTC GAT AAT CTG ATC GAT GTA ..A .T. .GT GGT T.G A.T G.T GCG
Cel-hsp110-3  TCC --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T GTC ..G .TT .G. GGA G.. AAG G.T GCT
Cbr-hsp110-3  TCC --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- GAG .TT ..G TT. .CT GGT G.T AAG G.T GC.
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  C.A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- TGG TTA A.G .CA .C. A.C TA. TCG G.C A.T
Cbr-hsp70-17  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- .TT G.A ... ... C.T AAA ... ... T.T ...
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- GTT ..A ... ... C.T C.A ... ... C.T ...
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   GAG CTC TCC GGA ATC CCA CCA GCA CCA CGC GGA GTC CCA CAA ATC GAA GTC ACT TTC GAT ATT GAC GCC AAC GGA ATC
Cbr-hsp70-1   ..A ..T ..T ... ... ... ... ... ... ... ..A ... ..T ... ... ..T ..G ..T ..C ... ..C ... ..T ... ... ... ...
Cel-hsp70-2   TGC .G. CT. CAT .CA AGG ..T C.T TGT GC. TT. T.T T.T .CC CC. TGG TCA T.. CAT C.A TCG TGT CAA TG. CAC ---
Cel-hsp70-3   ..C ... A.. ... C.. ... ... ... ... ... ... ..T ... ... ..T ..G ..T ... ... ..G ... ... .T. ... ... ...
Cbr-hsp70-3   ..T ..T A.. ... ... ... ... ... ... ... ..T ... ... ... ... ... ..G ..T ..C ..T ..G ... ... .T. ... ... ...
Cel-hsp70-4   ..T G.. A.. ... ... ... ... ..T ... ... ..T ..T ... ... ..T ..G ..T ..A ... ..A ... ..T .T. ... ... ..A
Cbr-hsp70-4   ..C ..T A.. ... ... ... ... ..T ... ... ... ... ... ... ... ..G ..G ..A ... ..G ..C ... .T. ... ... ..T
Cel-hsp70-6   TC. ..T GT. ... ..T ... ... ... ... ..T ..T ..T ... ... G.. ..G ... ..C ..T ..C ... ... ..T ..T ..T ...
Cbr-hsp70-6   TCT ..T GT. ... ... ... ... ... ... ... ... ... ... ... G.. ..G ..T ..C ... ... ... ... ... ... ...
Cel-hsp70-7   ..A T.G ..T ... ..T ... ..T ..T ... ... ..T ..T ... ... ..T ... ... ... ..T ... ... ..T ..A ..T ... ..T
Cel-hsp70-8   ..A T.G ..T ... ..T ... ..T ..T ... ... ..T ..T ... ... ..T ... ... ... ..T ... ... ..T ..A ..T ... ..T
Cbr-hsp70-7   ..A T.G AGT ... ..T ... ... ..T ... ..A ..T ..T ..T ..G ..T ... ... ... ..T ... ..C ..T ..A ..T ... ..T
Cbr-hsp70-8   ..A T.G AGT ... ..T ... ... ..T ... ..A ..T ..T ..T ..G ..T ... ... ... ..T ... ..C ..T ..A ..T ... ..T
Cbr-hsp70-14  ..A T.G AGT ... ..T ... ... ..T ... ..A ..T ..T ..T ..G ..T ... ... ... ..T ... ..C ..T ..A ..T ... ..T
Cel-hsp70-9   ..A T.A A.T ... ... ... ... ..T ... ..A ... ..T ... ... G.. ..T ..A ..G ..T ... ... ..T ..A ..T ... ..T
Cbr-hsp70-9   ..A T.G A.T ... ... ... ... ..G ... ..T ... A.T ... ... ... ..T ..G ... ... ..C ..C ..T ..A ..T ..T ..T
Cel-hsp70-10  AGT ..A C.A --- ..T .A. ... AA. AG. ..T ..T .AA T.. GT. G.T ..T A.. ..A ..G ..A G.A ..T TAT ..T ... ..T
Cbr-hsp70-10  AGT ..T C.A --- ... .AT ... AAG AA. ..T ..C .AA T.T GTT G.A ..C A.. ... ..G ..A G.A ..T CA. ..T ... ...
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  .TC AAT GGA .C. CGA ... GGT ..C GAT G.T ..T AAT .AG A.G G.T A.G ..G .AG G.T CG. G.. A.T C.A G.T ..T ...
Cbr-hsp110-1  .TT AAT GGT .CT CGT ... GGT ..T GAT G.T .CT AA. .A. A.. G.. A.. ... .AG G.. CGC G.C A.. C.A G.T ..T G.T
Cel-hsp110-2  A.A AAT CGA TCC .GT GA. GA. T.. --- GAG TTC AAG GG. GTG .AA .TT AG. TT. A.T .TG GA. .CA T.T GGA ATT G.A
Cbr-hsp110-2  TT. AAA AAT A.. TCA AGC GAG .A. --- TC. .A. T.. AA. GG. G.. A.G ... .GC ... TTG ..C ... ..T TCT ... ..T
Cel-hsp110-3  ATT GAG AAG .A. G.A A.T GAT .AG AAC TCA .TG T.G AAG GGT G.. A.G ACA ... ... TCC ... ... TTG TCT ... ..T
Cbr-hsp110-3  ATC GAG AAG .AG G.. A.C GAT .AG AAC TCT ATT C.T AAG GG. G.G A.G AC. ..G ... TCG ..C ..T TTG TCA ... ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  TCA AG. ..T .TG GAA T.C .AC CAG .GC .A. ..G .AA .TC .G. CAA TTG A.G TGA C.T TTA ..A TCG ATG C.A ATG GGA
Cbr-hsp70-17  A.. ... .GT ... ... ... ... .TG ... ..G ... ACT ..G AC. ..T ..T ..G ... ..T ... ..C ..T ..A ..T ..G ..T
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  A.. ... .GT ... ... ... ... ..G ... ..G ... ACT ..G AC. ..T ..T ..G ... ..T ... ..C ..T ..A ..T ..G ..T
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   TTG AAC GTC TCT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1   C.T ..T ... ..C --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   C.C C.. ..T A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3   C.T C.. ..T A.C --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4   ... C.. ..A AGC --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4   C.. C.T ... AG. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6   G.. ... ..T ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6   G.C ... ..T ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7   C.C ..T ..G ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8   C.C ..T ..G ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7   C.. ..T ..G ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8   C.. ..T ..G ..G --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14  C.. ..T ..G ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9   C.C ..T ..A ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9   C.C ..T ... ... --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10  C.T C.A .CA A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10  C.C C.A .CG A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  ..C .CG A.. G.. TCT GCC ACA ATG TAT GAA CCA AGA ATT GTC GAG GAA GTT CCA GCT GAG GCA ATG GAA GTG GAT GGA
Cbr-hsp110-1  ..C .CA A.T G.A TCG GCC ATT ATG TAC GAG CCA AAG ATT GTC GAG GAA GTT CCC GCT GAA GCA ATG GAA GTG GAC GGA
Cel-hsp110-2  CGA GTT AGA AGA GCC GAA GCT TTG TTT GAG CCA AAA TCT GGA TTA GTT GGA TCA ATT GCA AGC ACC ATC AGT GGG CTA
Cbr-hsp110-2  G.. .GA ..T CGA CGA GCA GAA GCT ATG TTT GAA GCT AAG TCT GGA ATC GTA GGA TCG ATA ACC AGC ACA CTC ACT GGA
Cel-hsp110-3  G.A TCG ..G GAA AAG GCT AGT GTG GTG GTG GAG AAA GTT CCA ACA CCT GAA GAA AAG GAT AAG TAC GAG GTT GAC ---
Cbr-hsp110-3  G.. TCA ... GAG AAA GCC AGT GTT GTT GTC GAG AAA ATC CCA ACT ACC GAG GAA ACC GAG AAA TAT GAA ATT GAG ---
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16  ..C TGA AAG ..A --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17  C.. ..T ... A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  C.. ..T ... A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
```

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Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- GCC ACT GAC AAG TCC ACC GGA --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- ... ..G ..T ... ... ..A ... --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- ... GAG ..T ... GGA ... ... --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ... GGA ..A ... --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- ... GAA ... ... GGA ..T ... --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- ..T GAA ..T ... GGA ... ... --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- ... .GA ..T CGT GGA ... ... --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- ... .GA ..T CGT GGA ... ... --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ..A ..A ..T ... --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ..A ..A ..T ... --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ..A ..G ..T ... --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ..A ..G ..T ... --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- ..T GAG ..T ..A ..G ..T ... --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- ..T G.C ..T ..A ..A ..T ..T --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- ..G GAG ..T ... ..T ..A ... --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- ..A CT. ..T TTA AA. ..A AA. --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- ..G TTG ..T CTA AA. ... AA. --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 GAC GCT AAA ACT GAA GCT CCT --- GCT GAG CCA CTG GAA CCA GT. AAG .AG ACT --- --- --- --- --- --- --- ---
Cbr-hsp110-1 AAC GGC AAT CCA GAC GCT CCG CCA GCT GAG CCA CT. GAA CCA GT. AAG .AA ACC --- --- --- --- --- --- --- ---
Cel-hsp110-2 TTT TCA TCA AAA ACT GAA GAA GGT GAA CCG ACA A.T GA. ... .GT A.T C.A CAG --- AGC ACT GAA GAG AAA ACA GAG
Cbr-hsp110-2 CTA TTC TCT TCG AAA ACA GAG GAA GGA GAA CCA A.T ..A ..T G.A G.A ..T .CT ACC GGC TCA AAC GAA GAA AAG ATT
Cel-hsp110-3 --- --- AAA AAA GAA TTT GAC GAA TGG GAG AAA .AG CAG ..A G.. CTG .AA AAG --- AAG GAA AAG GCC GAG AAA AAG
Cbr-hsp110-3 --- --- AAG AAG GAG TTC GAA GAG TGG GAA AAA .AG CAA ..A G.. .TG .AA AA. --- AAG GAA AAG GCT GAG AAG AAA
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- CTG CTA A.G .TA GGG GTT CTG --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- ..T .AA ..T .G. GGT T.T ..T --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- ..T .AA ..T .G. GGT T.T ..T --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 GAA AAA GAG TCT GTG AAA GTC GAA GAT TCA ACT CCT GAA CCA GAA CCC GAA ACC CCT GTC AAT TCC ACA TCT GAA GAA
Cbr-hsp110-2 GAA GAA AGA GAA GCA CCA AAG GCT GAG GAG ACT ACG CCA CAA CCA GAA CCT --- --- TCT GCT ACT CCC TCT ACA GAA
Cel-hsp110-3 GAA AAG GAA GAG AAG AAG AAG ACC GAA GGT GAG GAA GAG AAA AAT GAA GAT --- --- --- GCT GCC GGA GAA GAG AAG
Cbr-hsp110-3 GAA AAG GAG GAG AAG AAT AAA GCG GAA GGT --- --- GAA AAA GCC GAT GAT --- --- --- GAG GAG AAG GAA GAT GAA
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 AGT CCA AAA ACA AAT GAA ACT GAG AAA AAT GCT TCT TCC GGT AAT GCA ACC GAA GTG AAA GAA AAG AAA AAG GAA CTT
Cbr-hsp110-2 GAA TCT CCA AAG GCG AAT GGC ACC GAT GAG ACC ACA ACT TCA GGA AAC ACG ACA GAC GTG AAA CCA AAG AAG AAG GAA
Cel-hsp110-3 ACT GAA GAA AAA ACC GAA GAA GTT GAG AAG CCA GTA GTT GTG AAG AAG ACG AAG CCA GTG GAG CCA AAA GCA AAG AAA
Cbr-hsp110-3 TCT GAG AAG AAG ACC GAG GAT GTC GAA AAG CCA GCT CCA GTC AAG AAG ACC AAA CCA GTA GAG CCA AAG CCA AAG AAG
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- AAG CAA AAC AAG ATC ACC ATC ACC AAC GAC AAG GGA CGT CTT TCC AAG GAT GAC ATT GAA CGC
Cbr-hsp70-1  --- --- --- --- --- ... ... ... ... ... ... ... ... ..T ... ..A ... A.A ... ..T ... ..C ... ..C ..G ...
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- ..C A.G ... ... ... ... ... ... ... ... C.. AAC A.A ..C AG. CCC ..A ... ..C ..G ...
Cbr-hsp70-3  --- --- --- --- --- ..C A.G ... ... ... ..T ... ... ... ... C.A AAC A.A ..C AG. CCT ..A ... ..C ..G ..T
Cel-hsp70-4  --- --- --- --- --- ..C A.G ... ... C.. ..A ... ... ... ... C.C AAT ... ..C AGT CCA ..A ... ..C ..G ...
Cbr-hsp70-4  --- --- --- --- --- ..C A.. ... ... ... ... ... ..T ..T ... C.T AAC ... ... AGT CCT ..A ... ... ..G ...
Cel-hsp70-6  --- --- --- --- --- ... G.. C.A C.. ... GTT ... CAA TCT TCT --- ... G.A ... ... ... ..C C.A ..C ..G AAT
Cbr-hsp70-6  --- --- --- --- --- ... G.. C.A C.A ..T GTT ... CAA TCT TCT --- ... G.A ... ..G ... ..C C.G ... ..G AA.
Cel-hsp70-7  --- --- --- --- --- ..A TCC ..T CGA ... ..A ..T CAA ..T ..G ..A ... ..G ..G A.A C.A TCA ..T ... ..T ..A
Cel-hsp70-8  --- --- --- --- --- ..A TCC ..T CGA ... ..A ..T CAA ..T ..G ..A ... ..G ..G A.A C.A TCA ..T ... ..T ..A
Cbr-hsp70-7  --- --- --- --- --- ..A ACG ..T CG. ... ..A ..T CGA ..T ..G ..A ... ..A T.G ..T C.A TCA ... ... ..T ..A
Cbr-hsp70-8  --- --- --- --- --- ..A ACG ..T CG. ... ..A ..T CGA ..T ..G ..A ... ..A T.G ..T C.A TCA ... ... ..T ..A
Cbr-hsp70-14 --- --- --- --- --- ..A ACG ..T CG. ... ..A ..T CGA ..T ..G ..A ... ..A T.G ..T C.A TCA ... ... ..T ..A
Cel-hsp70-9  --- --- --- --- --- .GA TC. ... .GA ..T ..A ..T CG. ..T ..G ... ... ..A ..C ..T C.A .C. ..T ... ..T A.A
Cbr-hsp70-9  --- --- --- --- --- ..A TCC ..T .G. ..T ..G ..T CG. ... ..G ... ... A.A ..A ..A C.A .CA ..T ... ..T ..A
Cel-hsp70-10 --- --- --- --- --- ... GC. .TA .CC .CA ..A ..T TTA T.. ..T TGT T.T AC. TA. A.T C.A CCG ..A ... ..T GAA
Cbr-hsp70-10 --- --- --- --- --- ... GCT .T. .CA .CT ..A ..T GTA T.T ..T C.T T.T GC. T.. A.A C.. CCA ..A ..A ..C GAA
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ... T.G .C. CTA C.A .TA .C. GCG ATG GAG
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ..T T.G .CA CTT C.A .TG .CA GCG ATG GAA
Cel-hsp110-1 --- --- --- --- --- ..A .TT GTT CCA G.T GAT T.G GAA GTT ATT G.. TCG AT. .CA GT. TCT T.C ..T G.. C.. AAG
Cbr-hsp110-1 --- --- --- --- --- ... TTG .TT CCT G.G GAT C.G GAG GTG AT. G.A TCG AT. .CA GTT ..A T.C ..T G.. C.. AAA
Cel-hsp110-2 CCA TCA ATT GTT CGC TT. .GC .TT .CC .A. .AA TAT C.A TCT .CA TTC .TT .CA AA. AAA T.T ... .TT CAA ... GAA
Cbr-hsp110-2 CTC CCA CCA ATT GTT CGT .TC CGA .TC ... .A. .AG TAT CCA TCG GCC TAC GT. .CG AAT CGT T.C ..T G.C ..T GAG
Cel-hsp110-3 ATT AAT --- --- GTT GCA .TG .CG .TC .AG GAA .C. .AG .C. ... ..C ATT GAC ..G AAT G.. ..A ..A G.G ACC GCG
Cbr-hsp110-3 ATT AAT --- --- GTG GC. .TG .CA GTC .AG GAG .C. .AA .CT ... ..C .T. GA. T.G AA. ..A ..G ..A G.A .CC ACT
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- GTA GTT C.A .TA G.A TTA ..A T.. ..T ATG ..A A.G GAA GAC .AT CGC AGG C.G ..A TTG AT.
Cbr-hsp70-17 --- --- --- --- --- .GT TC. ..T .GT ..T .TT ... CAA T.T ..A ... ... A.A ..A ..G C.. .CA ..T ... ..T ..A
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- .GT TC. ..T .GT ..T .TT ... CAA T.T ..A ... ... A.A ..A ..G C.. .CA ..T ... ..T ..A
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   ATG GTC AAC GAA GCT GAG AAA TAC AAG GCT GAC GAT GAG GCC CAA AAG GAC CGT ATT GGA GCC AAG AAC GGA CTC GAG
Cbr-hsp70-1   ... ... ..T ... ... ..A ..G ... ... ... ..T ..C ... ... ... ... ..G ..C ... ... ... ..A ... ... ..T ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ... A.. ... ..T ..C ... ..G .T. GCT .AG ..T ..C A.. AAG GTC ... ..T AAG GC. .AG ..T CGC ... .AG ..T ...
Cbr-hsp70-3   ... A.. ... ..C ..C ... ..G .T. GCT .AG ..T ..C A.. AAG GTC ... ..G AAA GC. .AG ..T CGC ... .AG ..T ...
Cel-hsp70-4   ... A.. ..T ..T ... ..C ..G .TT GCT ..A ..T ... C.A ... ... ..A ..G AAG G.. .AG T.A CGA ..T .AG ..G ..A
Cbr-hsp70-4   ... A.. ... ..C ..C ..C ..G .T. GCT ..C ..T ... C.A ..T GTC ..A ..A AAG G.. .AG T.A .GA ... .AG T.G ...
Cel-hsp70-6   ... A.. ..G ... ..C ..A ..G A.T GCC ... ..G ..C .CA AAG AG. ... ..G .TC G.C .AG .TT .TC ..T CA. GCT ..A
Cbr-hsp70-6   ... A.. ..G ..G ... ... ..G A.. GCC ... ..A ... .CC AAG AG. ... ..A .T. G.. .A. .TT .TC ... CA. GC. ..A
Cel-hsp70-7   ... ..T C.T ... ... A.A C.. .T. G.A AAG ..A ... .GT .AA ... CG. ..A ... G.. CAG ..T CGT ..T CA. T.A ..A
Cel-hsp70-8   ... ..T C.T ... ... A.A C.. .T. G.A AAG ..A ... .GT .AA ... CG. ..A ... G.. CAG ..T CGT ..T CA. T.A ..A
Cbr-hsp70-7   ... ..T ... ..G ..A A.A C.. .T. G.A AAG ..A ... .GA .AA ... CGA ..A ... G.G TTG ..T CGT ..T CAG T.G ...
Cbr-hsp70-8   ... ..T ... ..G ..A A.A C.. .T. G.A AAG ..A ... .GA .AA ... CGA ..A ... G.G ATG ..T CGT ..T CAG T.G ...
Cbr-hsp70-14  ... ..T ... ..G ..A A.A C.. .T. G.A AAG ..A ... .GA .AA ... CGA ..A ... G.G TTG ..T CGT ..T CAG T.G ...
Cel-hsp70-9   ... ... ..T ... ..A A.A C.G .TT G.A AGA ..A ..C .CA ..A ... CGA ..T ..A ... A.C T.G CGT ..T CA. T.A ..A
Cbr-hsp70-9   ... ..T ... ... ..C A.. C.G .T. G.A AGA ..G ... .CT CAA ... .GA ... AAG G.C A.C ... CGT ... CA. T.G ...
Cel-hsp70-10  ... ACT .G. C.. AGC ..A G.. G.T CGA ATC TTT ... ... CAT TTC ..A ATG ..A TAC AA. CAA TTA C.A AA. AGT ..A
Cbr-hsp70-10  ..T ACT .G. C.. AG. ..A G.G G.T .G. TTA TTT ... ... A.A TTT .GA TTA ..G TAC AAG CAA TT. C.A AA. AGT ..A
Cel-hsp70-11  T.A CCA GCA A.. CGA AGA ... CGT C.T TTC TTT ACA ..A .AG ... ..A ..A AAC GAA AA. .AT CGA .CT ATT TCA ---
Cbr-hsp70-11  C.T CCA GCG A.. CGA AG. ... CGA C.C TT. TT. ACG ... CAA ..G ... ..G AA. GAG CA. .AT CGA GCA .CT GCA ACA
Cel-hsp110-1  T.C CAT ... CTT .AG CTT C.G ATG C.A .AA TCT ..C .CT AGA G.. ... .C. AAG GC. .AC ... ... ... TCG ... ...
Cbr-hsp110-1  T.C CA. G.G CTT .AA CTT CGT ATG C.A ..C .CT ... .CC AGA G.. ..A ..T AAG GCG .AC ..T ... ... TC. ... ...
Cel-hsp110-2  .AA CGT .GA ATG .AA .CA TTT GCT G.A AAA ..A CGA CTT ..A TCC G.. AGA GC. GCG .TG .AA ..T G.A TTG GAA TCT
Cbr-hsp110-2  GAA AAA .GA AG. ATG .T. GCT .TT TCT .AA A.A ..G CG. CTG GC. G.T ..A A.A GC. .CT ... G.A ..T .AG T.G ..A
Cel-hsp110-3  GCC AAG ..A .TC CTC .GA G.T .TT G.. CAA A.G ..A A.. .AA A.G C.C ..T ... GAA .AG ..T .T. ... C.C T.G ..A
Cbr-hsp110-3  GCT AAA ..G AC. CT. TCC G.C .T. G.. CAA A.A ..G C.. .AG A.G C.T ..T ... GAA .AG ..A .T. ..T CTG T.A ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  ... ..G ... ... ..G A.A C.G .TT G.A AAA ..A ... .GC .AA ..G CGT ..A ... G.G CTG ..G CGT ... CAG ..G ..A
Cbr-hsp70-16  GAA TGG TC. A.G AAG CTA ..C AGT TT. AAA A.G AGG AT. CT. A.C G.A ..G ACA .GG C.. ATG CCA T.A ACG .GT TTA
Cbr-hsp70-17  ... ... C.A ... ... A.A C.G .TT G.A AAA ..G ... .CT CAA .G. .TA ... AAG GCG AAT ... .TA G.. .CG T.T .TA
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... ... C.A ... ... A.A C.G .TT G.A AAA ..G ... .CT CAA .G. .GA ... AAG GCG AAT ... .TA G.. .CG T.T .CA
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   TCA TAC GCC TTC AAC CTT AAG CAG ACC ATT --- GAG GAC GAG AAG CTC AAG GAT AAG ATC AGC CCA GAA GAC AAG AAG
Cbr-hsp70-1   ..T ... ..A ... ... ... ... ... ..T ... --- ..A ... ... ... ... ... ..C ... ... ..T ... ... ... ... ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   ..T ... ..T .A. ... ..G ..A A.C CAG ... GAA ..C A.A ... ... ... GGA .GA ... C.. GA. GAG ..T ..T ... ...
Cbr-hsp70-3   ..T ... ... .A. .GT ... ... A.C CAG ... GGA ..C A.A ..A ... ... GGA .GA ... C.T GAT GAG ..T ... ... ...
Cel-hsp70-4   G.. ..T ... .AT C.G A.G ..A ACT CAA ..C GCC ..C A.G ..A ..A ... GGA .GA ... C.. .CT GAC ... ... ... GT.
Cbr-hsp70-4   ..T ..T ..T .AT C.G A.G ..A TC. CAA ..C GGT ..C A.T ... ... ..A GGA .GA ... C.. TCT GAC ... ... ... .TT
Cel-hsp70-6   GG. AT. AT. CA. G.. ACC G.A GCC --- --- --- A.. ATG ACC G.. T.T GCC ... C.A T.G CCA AAG ..C ..A TGT G..
Cbr-hsp70-6   GG. AT. AT. CA. G.. ACC G.A ... --- --- --- A.. ATG ACC G.. T.T GCT ..C C.A C.T CCA AAG ..C ..A TGC G..
Cel-hsp70-7   G.. ..T ..A ... C.A A.C ... ... --- --- --- .CT CTT ..T G.. TAT TCA TCA ..A C.A TCA A.T ... ..T GCA TCA
Cel-hsp70-8   G.. ..T ..A ... C.A A.C ... ... --- --- --- .CT CTT ..T G.. TAT TCA TCA ..A C.A TCA A.T ... ..T GCA TCA
Cbr-hsp70-7   G.. ..T ..A ... C.A G.C ..A ..A --- --- --- .CT CTT ..T G.A TA. GGA TCA ..A T.G CCA T.T ... ..T TC. ..T
Cbr-hsp70-8   G.. ..T ..A ... C.A G.C ..A ..A --- --- --- .CT CTT ..T G.A TA. GGA TCA ..A T.G CCA T.T ... ..T TC. ..T
Cbr-hsp70-14  G.. ..T ..A ... C.A G.C ..A ..A --- --- --- .CT CTT ..T G.A TA. GGA TCA ..A T.G CCA T.T ... ..T TC. ..T
Cel-hsp70-9   G.G ..T ..A ... C.A G.. ... ... --- --- --- .CT CT. ..A G.A .AT GGA TCA CT. T.A TCA G.. ... ..T GCA ..A
Cbr-hsp70-9   GG. ... ..G ... C.A G.G ..A ..A --- --- --- .CT CT. ..T G.A .AT GG. ... ... C.G ... T.. ..G ..T CGT .GT
Cel-hsp70-10  GAC ATG ..A .AT GGT TA. ..A ..T --- --- --- CGA TTA ... ..A G.T ... .GG .GC G.T GAG ..T .G. A.A TTC TC.
Cbr-hsp70-10  GAT ATG ..T .AT G.. TA. ..A ..T --- --- --- CG. TTG ... ... A.T .G. .GC .GC G.T GAT .G. ... A.A T.T TCA
Cel-hsp70-11  GA. .TG --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  GAG CTA --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  GAG ... .TT .A. G.A A.G CGT G.C .AA --- --- .T. TCT ..T C.. TAT GCT ..A TTC ... .C. ..G .CT .C. GCT G.C
Cbr-hsp110-1  GA. ... .TT .AT G.A A.G CGC G.C .AG --- --- CTT TCT ... C.A TA. GCC ... TTC ... .CT ... .C. .C. GCT G.C
Cel-hsp110-2  .TC A.T TTT GAA TGT TCA C.A T.T CT. GAA GAA ACT --- ... TTC ACT G.T T.C .T. GCT GAT GAG ..G A.A .CA ..A
Cbr-hsp110-2  ..G .T. AGT ... G.G TG. TCT ..A TA. T.G GAG ... --- AGT G.A T.. .CT ..C TTT .CA .CG GAG ... ..A ..A TCA
Cel-hsp110-3  GG. CTT CTT .AT G.T T.A GCA GTC CGG T.G GAA ..C .GT ... G.. TAT GCC ..G T.T GCT .CT GA. ... ..G ... ...
Cbr-hsp110-3  GG. CTT CTT .AT G.T T.G GCT GTT CGA T.G GAA ..T .GA ..A G.A TAT GCT ..A T.T G.. .C. GA. ..T ..G ... ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  G.G ..T ..G ..T C.G G.G ..A ... --- --- --- .C. CTG ..T G.A TAT GGC AGC ..A C.G CCG AGC ... ..T .GC ..C
Cbr-hsp70-16  CAG ATT A.G .GT .T. AA. GGA A.C --- --- --- AG. C.G TC. ..A AGT .C. .TG .TC GG. T.A G.T CG. ..G ..C GGA
Cbr-hsp70-17  GAT C.. .TG .AT C.A G.G ..A .G. --- --- --- .CA CT. ..A ... TA. GGT ... CG. C.G ... T.G ... C.A CG. ..C
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  GAT ... .TG .AT CGA G.G ..A .G. --- --- --- .CA CT. ..A ... TA. GGT ... CG. C.G ... T.G ... C.A CG. ..C
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1   AAG ATC GAG GAC AAG TGC GAC GAG ATC TTG AAG TGG CTC GAC AGC AAC --- --- CAG ACC GCA GAG AAG GAG GAG TTC
Cbr-hsp70-1   ... G.. ... ... ... ..T ... ... ..T C.T ... ... ..T ... ... ..T --- --- ... ..A ..C ..A ... ..A ... ..T
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   .CT ... ... ..G GCC GT. ..G ... GCT A.C TCA ... ... .GA TC. ... --- --- GCT GAA ... TCT GCT ... ... C.T
Cbr-hsp70-3   .CC ..T ... ..G GCC GT. ..T ... GCT A.C TCT ... ... .GA TC. ... --- --- GCT GAT ..T TCT GCT ..A ... C..
Cel-hsp70-4   TCC ... ... TCT GCC GT. ..G AGA GCT A.T G.. ... ... .GA ... ... --- --- ..A GAT ..C TCT .CT ..A ..A AA.
Cbr-hsp70-4   TC. ... ... TCT GCT GTT ..G AGA .C. A.C G.A ... ..T .GA .A. ... --- --- ... GAT ..C TCT .CA ... ... AA.
Cel-hsp70-6   GCT C.. CGA AC. ... ATT .CT ..T .CT AA. ... ATT ... ... .A. ..G --- --- G.C .AT .AG ACT CCA ..A .CT A..
Cbr-hsp70-6   GCT C.. CGA AC. ... AT. .CT ..C .C. AA. ... GTT ..T ... .A. ..G --- --- G.C .AT .A. ACA CCA ..A .CC A..
Cel-hsp70-7   CGT GCA A.A ..A GCT GTT ..T ..A .CA C.T CGT ... T.G ..T TC. ... --- --- TCA TTG ..T ..A ..A ..T ..A A.T
Cel-hsp70-8   CGT GCA A.A ..A GCT GTT ..T ..A .CA C.T CGT ... T.G ..T TC. ... --- --- TCA TTG ..T ..A ..A ..T ..A A.T
Cbr-hsp70-7   CGT GCG A.A ..A GCT GTT ..A ... .CT C.C CGT ... T.G ..T TCA ..T --- --- ..A TTG ..T ..A ... ..T ... A.T
Cbr-hsp70-8   CGT GCG A.A ..A GCT GTT ..A ... .CT C.C CGT ... T.G ..T TCA ..T --- --- ..A TTG ..T ..A ... ..T ... A.T
Cbr-hsp70-14  CGT GCG A.A ..A GCT GTT ..A ... .CT C.C CGT ... T.G ..T TCA ..T --- --- ..A TTG ..T ..A ... ..T ... A.T
Cel-hsp70-9   CGT GCA A.A ..T GCA GTT ..A ..T .C. C.T CGT ... A.G ..A C.T ..T --- --- ACA TTA ..G ..T ..A ..T ..A A.T
Cbr-hsp70-9   CGT GCT AGA ..A GCC GT. ..G ..C .CT C.T CGT ... A.G ..A TC. ... --- --- ACT TTG ..T ... ... ..T ... A.T
Cel-hsp70-10  ..C T.G AT. ..A .CA GTG ..A CGA GAA A.T TCA ... T.G TCT GTA TT. --- --- .CA .AA .TG TCT CCA A.T ..A .AT
Cbr-hsp70-10  ..T C.T AT. ..A .C. GTT ..A AG. GAA A.C TCA ... T.A TC. G.G TTT --- --- .C. .AG .TT CCA CCC AGT ..T .A.
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  G.. T.. CGT TCT GTT CT. AC. TCC .C. GAA G.T ... ..T T.. GA. G.G GGA --- G.A GAT ..C ..A CGA ..T .TT .AT
Cbr-hsp110-1  G.. T.. CGT TCA GCT .TG ACT TCT .CG GAA G.T ... ... T.. GAT G.A GGA --- G.. GAT A.C ... CGT ..T .TC .A.
Cel-hsp110-2  TT. GAA ..T TCT GT. AAA AGA ATT CGT GCT TG. CTC GAA ... GAT GTG ACG AAA G.T ..A C.. AC. ... ..T TTC ACA
Cbr-hsp110-2  ... T.G ..A ..A TC. GTG A.A AGA ..T CGT CTA ... ..T ..A GAT G.T GTG ACA A.A GAA A.G CCT .CT A.A ... ...
Cel-hsp110-3  GCA ..T CTT ..G G.A GT. .C. .T. T.G AA. CTC ... T.. ..G GAT G.. GTT TCG .TC GAA A.G A.. ..A ..A ..A ..T
Cbr-hsp110-3  GCA ... CTC ..G G.. GTT TCT ATT C.. AA. CTT ... T.T ..A GA. G.. GTT TCC .TA GAT A.C A.A ... ... ..A ...
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  CGT GCG A.A ..A GC. GTG ..A ..A .C. C.. CGT ... ..G ..T ... ... --- --- ... CTG ..G ..A ..A ..T ..A A.T
Cbr-hsp70-16  CCA TCG C.A A.G .G. CTG T.G ATA .CG CGC TTC GTT GGG CGA .AT CCG ACG GTA TC. .GA AAC ATC .TT T.. A.A A.G
Cbr-hsp70-17  CGC GCG ..A .GG CTT GTA ..T C.A ..A C.T CGT ..T ACA A.A TCT --- --- --- GCC ..T TTC ..T ..T A.A C.. AAA
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  CGC GCG ..A .GG CTT GTA ..T C.A .CA C.T CGT ... ACG A.A TC. --- --- --- G.C GAT ATC ..C ..A T.T C.. ..A
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1   GAG CAC CAA CAG AAG GAT TTG GAA GGA TTG GCC AAC CCA ATC ATT TCC AAG CTT TAC CAG AGT GCC GGA GGA GCC CCA
Cbr-hsp70-1   ..A ... ... ..A ... ..C ... ... CA. C.C ... ... ... ... ... ... ..A ..C ... ... ..C ..T ... ..T ... ...
Cel-hsp70-2   --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3   A.. G.G ... A.. ... ... C.T ..G A.C AA. .TT C.A ... ..T G.. ..T ... ... ... A.. GA. ..T ... .CC .GA GG.
Cbr-hsp70-3   A.. G.G ..G A.A ... ..G C.C ..G ..C AA. .TT C.A ... ..T G.. ... ... ... ... A.. GA. .GA ... .CC .GA GG.
Cel-hsp70-4   A.. G.G ... A.. ... ..A C.T ... TCT G.T .TT C.A ... ... G.C ... ..A ... ... TC. GCG .GA ... CA. .GA GA.
Cbr-hsp70-4   A.A G.A ..G A.. ... ..A C.C ..G TCC G.C .TT C.A ... ..T G.C ... ... ..C ... TC. GCC .GA ..C CA. .GA ---
Cel-hsp70-6   A.. G.G GCT TGC ..C AC. C.T C.. CA. CAA T.G CT. AAG C.T T.C GAG GCT GC. ..T A.. .AC ATG .CT .CC AAG AAC
Cbr-hsp70-6   A.. G.G GCT TGC ..C ACC C.T C.. CA. CAA T.T CT. AAG C.G T.C GAA GCC GC. ... A.. .AC ATG .CC .CT AAG AAC
Cel-hsp70-7   ..A GCA A.G G.T ... ..A ... A.. TC. G.T TGT C.A T.. ..T C.C A.T ..A A.G C.. ..A TC. .GA CA. TCT T.T G.T
Cel-hsp70-8   ..A GCA A.G G.T ... ..A ... A.. TC. G.T TGT C.A T.. ..T C.C A.T ..A A.G C.. ..A TC. .GA CA. TCT T.T G.T
Cbr-hsp70-7   ... GCA A.G G.T ... ..A ... A.G T.T G.C TGT C.A T.. ..T C.C ... ..A A.G C.T ..A TC. .GA CAG CA. CAA ..T
Cbr-hsp70-8   ... GCA A.G G.T ... ..A ... A.T A.T G.C TGT C.A T.. ..T C.C ... ..A A.G C.T ..A TC. .GA CA. CA. CAA ..T
Cbr-hsp70-14  ... GCA A.G G.T ... ..A ... A.G T.T G.C TGT C.A T.. ..T C.C ... ..A A.G C.T ..A TC. .GA CAG CA. CAA ..T
Cel-hsp70-9   ..A GCA A.G G.C ..A ..G ..A A.G TCT A.T TGT C.A GAT ..T T.A A.A ..A A.G C.T ..A CAA .AA .CC CA. T.A GGT
Cbr-hsp70-9   ... GCG A.G G.T CG. ..A ... A.G .CG G.. TGT C.G G.G ..T C.A A.T ... A.G C.T ... CAG .AG A.T ..T .GT .AG
Cel-hsp70-10  AT. ..G AG. AG. .GA .CA ..A CG. CTT AAA .TG T.T ... .CT C.. .TT .TT AA. .TA TC. TTC TA. --- --- --- ---
Cbr-hsp70-10  ATC ..T AG. .GA .GA ACA ..A CG. .TG AAA .TT T.T ..G .CA T.A .TT TT. AA. CTG TC. TT. TA. --- --- --- ---
Cel-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1  ... A.G AGG .TC TCC ..G C.C A.. .C. G.. .GA .CA ..T G.T G.G GAA .GA TA. CG. G.. TC. .AA ACC C.. AAA ...
Cbr-hsp110-1  ... A.G AG. .TC T.T ..G ... A.G .C. G.C .G. .CT ... G.G G.G GAA CGC TA. CGT G.. TTC .AA ACC A.. AAG ...
Cel-hsp110-2  ..T A.T TTG .TC G.A TTG AA. A.T .TT G.A CGG .GT GTG .AA .AG AGA C.A GAA C.. G.C .AG ..A .TT CC. .AG AAG
Cbr-hsp110-2  AC. G.T A.C TT. CTC ..G C.. A.G AAT G.C .TA .GG A.. G.G .AG AAA .GA .AA G.G ..C GAC AAA ACT AT. C.. GAG
Cel-hsp110-3  ..T G.G A.G AGA GCA A.G ... ... .AG ... A.A GCT AA. CCA .A. G.. .GA AAG C.A G.A ..A CTT .AT ATT C.A AA.
Cbr-hsp110-3  ..C G.G AG. AGA ... A.G C.C ..G .AG C.C A.. GCT AAG CCA .A. ... .GA AAG C.A G.. CAC ATT .AT .TT C.A AAG
Cbr-hsp70-12  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15  ..A GCG A.. G.T ..A ..A C.. A.. T.C G.. TG. C.G AGC ..T C.G AG. ..A A.G C.T ... ..C .G. CAG CAG CAG ..G
Cbr-hsp70-16  TC. A.A AG. TGT TTA A.G AGC TCT TTG AG. TGA TGA AG. TCA CGG .GG .GA --- --- --- GC. AA- --- --- --- ---
Cbr-hsp70-17  ... A.A AT. G.A G.C TTG ... A.G AAC C.T TGT CGG A.G T.T CGA .AT TGC GG. GGA G.A GTA ... A.C CA. TGT TTT
Cbr-hsp70-18  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20  ... A.T GTC G.A ... ATG ..T A.. --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1  CCA GGT GCT GCT CCA GGA GGA GCC GCC GGA GGA GCT GGA GGA CCA ACG ATC GAG GAG GTC GAC --- --- --- --- ---
Cbr-hsp70-1  ... ..A ..C ..C ..T ... --- ... ..T ... ... ..C ... ... ... ... ... ... ... ... ... --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  GAG .AG ..C C.A GA. .AG ... T.T .A. .AC AAG .AC .AG CTC --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  GA. .AG ... C.A GAG .AG ... T.. .A. .AC AAG .AC .AG CTC --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  .A. .C. T.. .AG GAG CC. TCG .AG .AT CAT .AT .AA CTG TA. --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  GA. CAA ... AGC GAG .AG CC. ..T .AG .AC CAC .AC .AG TTG --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  T.T ..A .G. --- GAC .CC CAG .AG ... AAG ACC ..C .AG .AG ... .A. .AG ... C.A AA. --- --- --- --- --- ---
Cbr-hsp70-6  T.C ..A .GA ... GAC .CT CA. .AG ... AAG ACC ... .AG .AG ... .A. .AA ... C.. AA. --- --- --- --- --- ---
Cel-hsp70-7  T.T .C. .GA TGC G.T ... AAT C.T .GA ACT .CT .GA TTC AAT ..T .AC .AT T.T CCA --- --- CAA GGA CCT ACT GTT
Cel-hsp70-8  T.T .C. .GA TGC G.T ... AAT C.T .GA ACT .CT .GA TTC AAT ..T .AC .AT T.T CCA --- --- CAA GGA CCT ACT GTT
Cbr-hsp70-7  T.T TC. .GA TG. GG. --- AAT C.T .GA TTT TCT .GA TTC AAT T.. .AC .A. T.T CCA --- --- CAG GGA CCA ACT GTT
Cbr-hsp70-8  T.T --- .GA TG. GG. --- AAT C.T .GA TCT TCT .GA TTC AAT T.. .AC .A. T.T CCA --- --- CAG GGA CCA ACT GTT
Cbr-hsp70-14 T.T TC. .GA TG. GG. --- AAT C.T .GA TTT TCT .GA TTC AAT T.. .AC .A. T.T CCA --- --- CAG GGA CCA ACT GTT
Cel-hsp70-9  T.C --- .GA TGC GGC --- AAC C.A .GA TCT ..T .GA TTC CAT T.C .GC .AT T.T CCA --- --- CAA GGA CCT ACT GTA
Cbr-hsp70-9  GG. .CG AA. TG. GG. A.T AC. C.T .GA TCG A.G AT. CA. TCC GAG CAA C.A TCC AG. CGG TG. TGG ACC CAC TGT TGA
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 G.G TTC .A. T.A TTC .AT CA. T.A ATT ATG C.T .TC A.. AAG G.. TAT GAA ..T T.T .CT A.T GGT GGA CCA ACC TAC
Cbr-hsp110-1 G.T TTC .A. A.C TTC .AT CA. T.. ATT CTT C.T .TA C.. AA. G.C TAC GAA ..T T.C ... A.T GGT GGC CCA ACT TAT
Cel-hsp110-2 TTG AAG AGC TTG GAG ACT CTT CTG .AA ACC ACT TTC TC. TTG A.C ..T T.G .GT A.C AAT .TT GAC GAG --- --- ---
Cbr-hsp110-2 AA. ATG AAG AG. TT. .AT ACT CTT CTG .A. AC. A.. TT. TCC .T. ..C .CT TT. .GT AAT A.. GTT GAT --- --- ---
Cel-hsp110-3 GTT .C. .AA AT. ATC .AG .AT CA. TT. AAT C.T T.. ATG ACC TTC CAC GCT AT. .CT C.T A.. TTG ACA CAG TTT GAG
Cbr-hsp110-3 GTG .C. .AG .T. .TT .AG .AT AAT TT. AAT C.. T.A ATG ACT TTC CAC GG. AT. .CT C.T A.T TTG ACC CAG CAC GAG
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 AGC A.C .GC TGC GGC --- AAC C.G .G. TTT A.C .GC TTT AAC AGC .AC .A. T.T CC. --- --- CAG GGC CCG ACC GTG
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 AAT CT. CT. TA. T.T TAC TTT .AT T.T .A. ACT CT. .A. ACG ATT CTT T.T ..A --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  GAG GAA GTT GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  GAG GAA GTT GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  GAA GAG GTC GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  GAA GAG GTC GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 GAA GAG GTC GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  GAG GAA GTT GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  AGA AGT TGA T-- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 GCT CAC CTT GAT AGC AAA GAA ATG GAG AAG --- --- --- GTA ATC AAT GCA ATT GAG GAC AAG AAG AAA TGG TTG GAC
Cbr-hsp110-1 GCT CAC CTC GAT AGT AAA GAA ATG GAA AAG --- --- --- GTG ATC AAT GCT ATC GAA GAC AAG AAG AAG TGG CTC GAT
Cel-hsp110-2 GAG AAG GCA CTA TTC AAA AAG GAA GAC CGT GAC GGT TTG AAA TCT AAA TTG GAC AAA CTG AAA ATT TGG GTC ACA GAT
Cbr-hsp110-2 GAA GAG AAA GCA TTG TTC AAG AAG GAA GAT CGC GAT GGC TTG AAA ACA AAA CTA GAT AAA TTG AAG GTT TGG GTG GAA
Cel-hsp110-3 GAG GGT AAC AAG ACA TTC ACA GAC ACT GAA CTT GAG GTT CTC ACT AAA TTG ATT GAG TCG ACG ACC GAG TGG TGG AAT
Cbr-hsp110-3 GAG GGC AAC AAA ACA TTC ACC GAC ACT GAA CTC GAG GTG CTC ACC AAG TTG ATT GAG ACA ACG ACC GAG TGG TGG AAT
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 GAA GAA GTG GAT --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 GAA GCT CGT CAC AAG CAA GAG ACT CGT TCC AAG ACT GAT GCC CCC GTT GTC TTC ACC GAG GAA ATT CTT CAA AAT AAG
Cbr-hsp110-1 GAG GCT CGT CAC AAG CAA GAG ACC CGC TCA AAA ACT GAT GCT CCA GTC GTA TTC ACT GAG GAA ATC AAT CAA AAC AAA
Cel-hsp110-2 GTT CGG AAA CAC CTA GAT TTG AAG AAG AAA ACA GAT GAT TTC AAC TTC ACT GGA AAA GAT ATT GAC ACC AAG ACC AAA
Cbr-hsp110-2 GGT GTA CGA AAA CAC TTA GAT ACA AAG AAG AAG TTT GAT GAT TTC AAC TTC ACT GGC AAA GAT ATC GAT TCA AAA ATT
Cel-hsp110-3 GAG AAG AAG GAT CTT TTC GAG AAG CAA GCT AAG AAC GAG GAT CCC GTT GTG AAA GCT TCT GAG ATT GCA GAA AAG GCT
Cbr-hsp110-3 GAG AAG AAG GAA CTC TTC GAT AAG CAG GCC AAG AAC GAA GAA CCA GCT GTC AAG GCT TCA GAG ATT GCT GAG AAG GCT
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 AAT GTC TTC GAA AAT GTT GTC AAC CCT ATC CTC AAT AAG AAG AAG CCG GCC GCA CCA GCC CCA CCA AAG AAG GAA GAG
Cbr-hsp110-1 AAT GCC TTC GAA AAT ATT GTG AAC CCA ATC CTC AAC AAG AAG AAA CCT GCT GCC CCA GCT CCA CCA AAG AAG GAA GAT
Cel-hsp110-2 AAT CTG AAC CGT GAA GTA GAT CGA TTC ATG AAG AAA ATG AAG AAG ATC ACA ACA TTG GAC GAT CTT GCC AAA --- ---
Cbr-hsp110-2 AGA AGC TTG AAT CGT GAA GTA GAT CGA TTC ATG AAG AAA ATG AAG AAA ATT ACA ACA CTT GAT GAG CTT AAC --- ---
Cel-hsp110-3 CGT GAC TTG GAA CGA GAA GTG CGT TAT CTG GTG AAT AAG TTG AAG ATT GCA AGC TCC AAG AAG AGC AAA GAA TCT GAA
Cbr-hsp110-3 CGT GAT TTG GAA CGT GAG GTC AGA TAC CTA GTG AAC AAG CTT AAG ATC GCA AGC TCC AAA AAG ACG AAG --- --- GAG
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
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Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 CCC CAG CCT GCT GCT GGA GAT CAA CCA CAA TCT CAA CCA GGA GAG ATG GAT GTC GAT --- --- --- --- --- --- --- ---
Cbr-hsp110-1 ACC CAA CCA GCT GCT GGA GAT CAA CCA CAG TCC CAG CCA GGA GAG ATG GAT GTC GAT --- --- --- --- --- --- --- ---
Cel-hsp110-2 --- --- GAC GGA AAA ATT GAT ATC GAC ACC ATT GTA GAA GAA GCA GAG AAG AAA AAA GCC GAA CAA GAC AAG AAG AAG
Cbr-hsp110-2 --- --- AAA GAC GGG AAG ATC AAC ATT GAC GAT ATT GTT GCT GAA GCC GAA AAG AAA GCT TCC TCG GAA GAA AAT ACT
Cel-hsp110-3 AAG AAA AAG AAG ACA AAG AAG GAA AAA GAC ACT GTA AAA GAA AGA AAG GAG GAA GAA ACC ACA GAA ACA ACT ACA GAG
Cbr-hsp110-3 GAG AAA AAA AAG GCC AAG AAG GAG AAG --- --- --- AAA GAC GCC GAA GAG GCC AAG ACT GAT GAA GGA GCC AAT GTA
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---

Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 GAA AAG AAA AGC ACG AAG AAA GCA AAC GAG TCG AAA GTA GAA AAC GAG TCA --- --- --- --- --- --- --- --- --- GAG
Cbr-hsp110-2 GAA ACA AAG GAT AAG ACC AAG --- --- GAG CCG GAA ACG GGA GCT GAA --- --- --- --- --- --- --- --- TCC GAG
Cel-hsp110-3 GAT CAA GCT AAT GAG CAG CAG ACT CCT CCG CCG TTT GAG AAC GAT AAC ACA AAG GAT GAT GAA TCA GCA TCG ACT GAA
Cbr-hsp110-3 GAT GCA CCA --- GAT GCC GAG ACA CCT CCA CCG GCA GAA AAC GAT GAA TCA --- --- --- --- --- --- ACC ACA GCC
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- --- ---
```
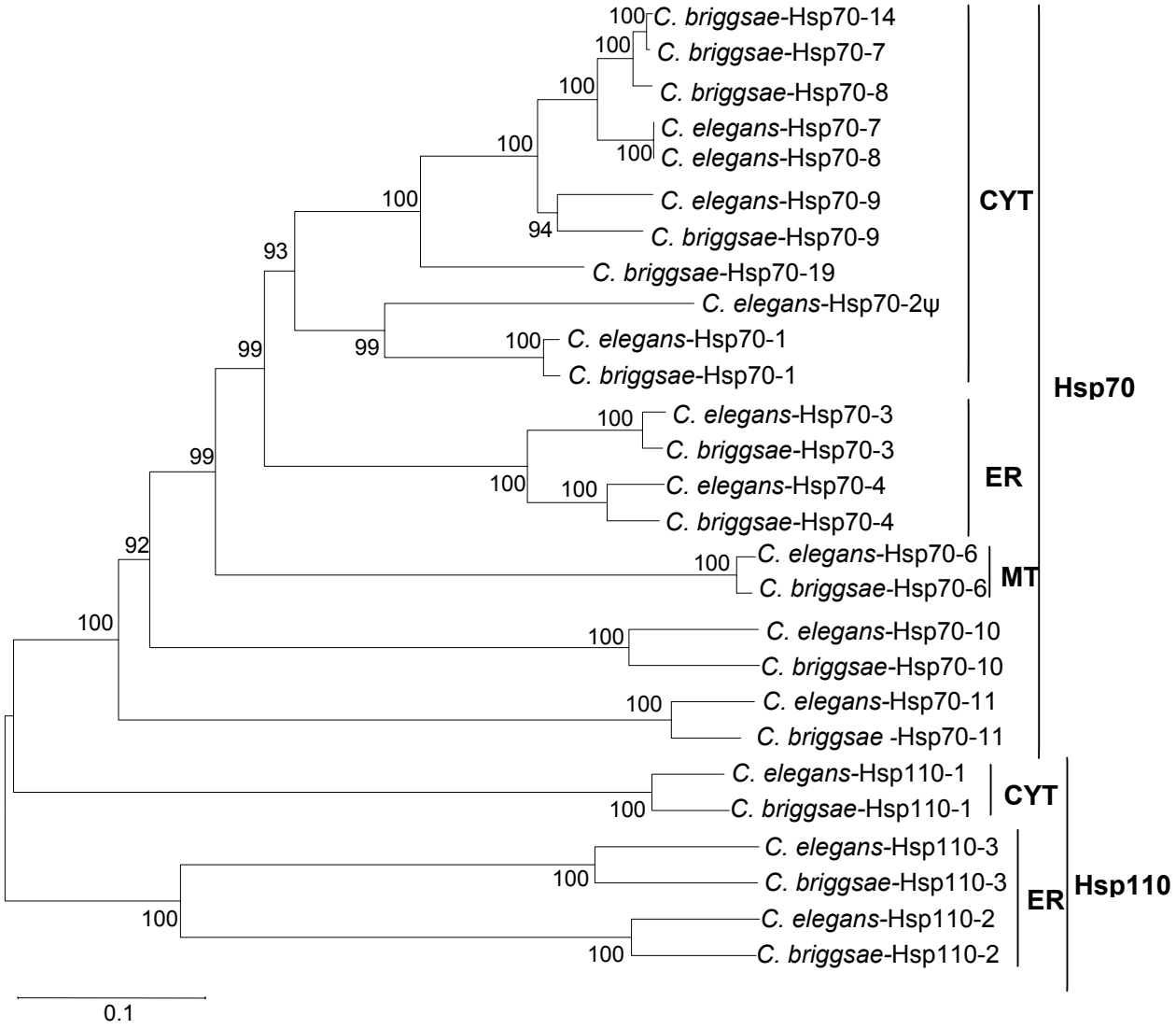
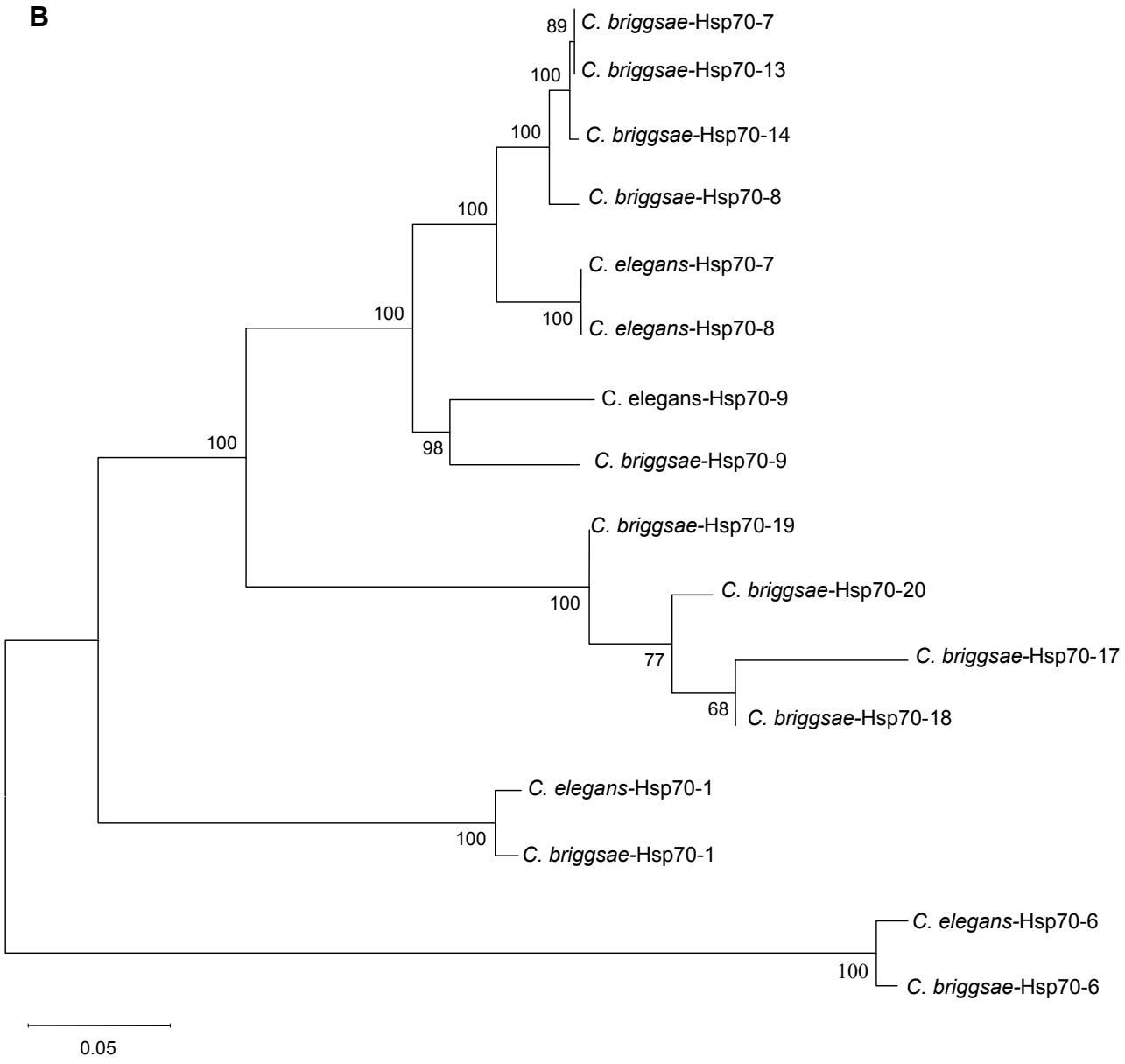

```
Cel-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-1  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-2  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-3  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-4  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-6  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-7  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-8  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-14 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-9  --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-10 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-11 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp110-1 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cel-hsp110-2 ATA AAG ACC GAG CTT T-- --- --- --- --- --- --- ---
Cbr-hsp110-2 ATG AAA ACC GAG CTT --- --- --- --- --- --- --- ---
Cel-hsp110-3 GAG CCG AAG AAA GAC ACT GAA CAC GAT GCA TCG GAA CTG
Cbr-hsp110-3 GAG CCG AAG AAA GAA GCT GAA CAC GAC GCG TCG GAA CTG
Cbr-hsp70-12 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-13 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-15 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-16 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-17 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-18 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-19 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-20 --- --- --- --- --- --- --- --- --- --- --- --- ---
Cbr-hsp70-21 --- --- --- --- --- --- --- --- --- --- --- --- ---
```

Supplementary FIG. 1. –Nucleotide alignment of the *hsp70* gene sequences from *Caenorhabditis elegans* (*Cel*) and *C. briggsae* (*Cbr*). Nucleotides identical to the first sequence are indicated by dots (.). Alignment gaps are indicated by dashes (-).Note that the sequences for the *C. briggsae* genes *hsp70-12*, *-13*, *-15*, and *hsp70-16~21* are truncated.

A


C. briggsae-Hsp70-14
C. briggsae-Hsp70-7
C. briggsae-Hsp70-8
C. elegans-Hsp70-7
C. elegans-Hsp70-8
C. elegans-Hsp70-9
C. briggsae-Hsp70-9
C. briggsae-Hsp70-19
C. elegans-Hsp70-2ψ
C. elegans-Hsp70-1
C. briggsae-Hsp70-1
C. elegans-Hsp70-3
C. briggsae-Hsp70-3
C. elegans-Hsp70-4
C. briggsae-Hsp70-4
C. elegans-Hsp70-6
C. briggsae-Hsp70-6
C. elegans-Hsp70-10
C. briggsae-Hsp70-10
C. elegans-Hsp70-11
C. briggsae -Hsp70-11
C. elegans-Hsp110-1
C. briggsae-Hsp110-1
C. elegans-Hsp110-3
C. briggsae-Hsp110-3
C. elegans-Hsp110-2
C. briggsae-Hsp110-2
CYT
ER
MT
Hsp70
CYT
ER
Hsp110
0.1



Supplementary FIG. 2. –A, Phylogenetic relationships of the Hsp70 and the Hsp110 proteins from *Caenorhabditis elegans* and *C. briggsae*. The alignment gaps were completely eliminated from the analysis, and the amino acids used to construct the tree were 201. B, Phylogenetic relationships of the Hsp70 proteins including the truncated sequences of *C. briggsae*. The number of amino acid sites after pairwise deletion of the gaps was 1070. The numbers for interior branches represent bootstrap values. CYT, cytoplasmic; ER, endoplasmic reticulum; MT, mitochondrion.