

**Supplementary Table 1** This table lists all the proteins used in the phylogenetic analysis (Fig 2). Each protein included in the alignment (Supp Fig 1) is listed with the abbreviation used in the alignment with the full species name and accession number

Species, HSP70 abbreviation	Accession number or Proteins ID
<i>Arabidopsis thaliana</i>	
Athsp70-1	AT5G02500
Athsp70-2	AT5G02490
Athsp70-3	AT3G09440
Athsp70-4	AT3G12580
Athsp70-5	AT1G16030
Athsp70-6	AT4G24280
Athsp70-7	AT5G49910
Athsp70-8	AT4G37910
Athsp70-9	AT5G09590
Athsp70-10	AT5G28540
Athsp70-11	AT5G42020
Athsp70-12	AT1G09080
Athsp70-13	AT1G56410
<i>Chlamydomonas reinhardtii</i>	
Crhsp70-1	126835
Crhsp70-2	137452
Crhsp70-3	185673
Crhsp70-4	133650
Crhsp70-5	133859
<i>Cyanidium caldarium</i>	
Cchsp70-1	AAF12906
<i>Cyanidioschyzon merolae</i>	
Cmhsp70-1	5604
Cmhsp70-2	1601
Cmhsp70-3	3804
Cmhsp70-4	914
<i>Escherichia coli</i>	
DnaK	P04475
<i>Gracilaria tenuistipitata</i>	
Gthsp70-1	AAT79683
<i>Guillardia theta</i>	
Guthsp70-1	AAC35702
<i>Odontella sinensis</i>	
Oshsp70-1	CAA91650
<i>Oryza sativa</i>	
Orshsp70-1	LOC_Os03g16920
Orshsp70-2	LOC_Os03g16860
Orshsp70-3	LOC_Os05g38530
Orshsp70-4	LOC_Os01g62290
Orshsp70-5	LOC_Os11g47760
Orshsp70-6	LOC_Os03g60620
Orshsp70-7	LOC_Os12g14070
Orshsp70-8	LOC_Os05g23740
Orshsp70-9	LOC_Os02g53420
Orshsp70-10	LOC_Os03g02260
Orshsp70-11	LOC_Os09g31486
Orshsp70-12	LOC_Os02g02410
Orshsp70-13	LOC_Os03g50250
Orshsp70-14	LOC_Os05g30480
Orshsp70-15	LOC_Os08g09770
Orshsp70-16	LOC_Os05g35400
<i>Ostreococcus lucimarinus</i>	
Olhsp70-1	48839
Olhsp70-2	15148
Olhsp70-3	44780
Olhsp70-4	28169
Olhsp70-5	12592

**Supplementary Table 1** Continued

Species, HSP70 abbreviation	Accession number or Proteins ID
<i>Ostreococcus tauri</i>	
Othsp70-1	15769
Othsp70-2	28374
Othsp70-3	28024
Othsp70-4	22076
Othsp70-5	15909
<i>Plasmodium falciparum</i>	
Pfhsp70-1	PF08_0054
Pfhsp70-2	PF10875W
Pfhsp70-3	PF11_O351
Pfhsp70-4	PF07_0033
<i>Plasmodium yoelli</i>	
Pyhsp70-1	PY05001
Pyhsp70-2	PY06158
Pyhsp70-3	PY06981
Phhsp70-1	ABF20063
<i>Porphyra haitanensis</i>	
Phhsp70-1	ABF20063
<i>Porphyra purpurea</i>	
Pophsp70-1	AAC08201
<i>Porphyra yezoensis</i>	
Poyhsp70-1	ABF54971
<i>Saccharomyces cerevisiae</i>	
ECM10	S50429
SSC1	M27229
KAR2	M25064
SSB1	CAA31995
SSB2	S50721
SSA1	P10591
SSA2	P10592
SSA3	S36753
SSA4	B36590
<i>Synechocystis</i> sp. strain PCC6803	
SynDnaK1	Q55154
SynDnaK1	P22358
SynDnaK1	P73098
<i>Thalassiosira pseudonana</i>	
Tphsp70-1	YP_874583
Tphsp70-2	269240
Tphsp70-3	28189
Tphsp70-4	269120
Tphsp70-5	27656

HSP, heat shock protein.

Athsp70-1	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Athsp70-2	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Athsp70-3	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Athsp70-4	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Athsp70-5	GIDLGTTYS C	VGVWMNDRVE	II IPNDQGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Orhsps70-5	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVGFTDS	ERLIGDAAKN	[ 50 ]
Orhsps70-3	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Orhsps70-6	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVGFTDT	ERLIGDAAKN	[ 50 ]
Orhsps70-1	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Crhsp70-3	GIDLGTTYS C	VGVWQNDRVE	II AND QGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Olhsp70-4	GIDLGTTYS C	VGVWQHDRVE	II AND QGART	TPSYVAFTDS	ERLIGDSAKN	[ 50 ]
Othsp70-5	GIDLGTTNSA	VAAMEEGGSPT	IVTNAEGGRT	TPSVVAYTKS	DRLVGQIAKR	[ 50 ]
Tphsp70-4	GIDLGTTYS C	VGVWQNDRVE	II AND QGNRT	TPSYVAFTET	ERLIGDAAKS	[ 50 ]
Pfhsp70-2	GIDLGTTYS C	VGVFKNGRVE	ILNNELGNRI	TPSYVSFVDG	ERKVGEAAKL	[ 50 ]
ScSCSSA1	GIDLGTTYS C	VAHFANDRVD	II AND QGNRT	TPSFVAFTDT	ERLIGDAAKN	[ 50 ]
ScSCSSA2	GIDLGTTYS C	VAHFSNDRVD	II AND QGNRT	TPSFVGFTDT	ERLIGDAAKN	[ 50 ]
ScSCSSA3	GIDLGTTYS C	VAHFSNDRVE	II AND QGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
SCSCSSA4	GIDLGTTYS C	VAHFANDRVE	II AND QGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Cmhsp70-3	GIDLGTTYS C	VAVMEGNKVE	II ANE QGNRT	TPSYVAFTET	ERLIGDAAKN	[ 50 ]
Pyhsp70-3	GIDLGTTNSC	VAIMEGKQGK	VIENAEGFRT	TPSVVAFTND	QRLVGIVAKR	[ 50 ]
Athsp70-11	GIDLGTTYS C	VGVYKNGHVE	II AND QGNRI	TPSWVGFTDS	ERLIGEAAKN	[ 50 ]
Athsp70-12	GIDLGTTYS C	VGVYHNKHVE	II AND QGNRI	TPSWVAFTDT	ERLIGEAAKN	[ 50 ]
Athsp70-13	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Crhsp70-4	GIDLGTTYS C	VGVYKNGRVE	II AND QGNRI	TPSYVAFTDE	ERLIGDAAKN	[ 50 ]
Crhsp70-5	GIDLGTTYS C	VGVYKNGRVE	II AND QGNRI	TPSYVAFTDE	ERLIGDAAKN	[ 50 ]
Olhsp70-3	GIDLGTTYS C	VGAYVNGKVE	II AND QGNRI	TPSYVAFTDS	ERLIGDSAKN	[ 50 ]
Othsp70-1	GIDLGTTYS C	VGAYVNGKVE	II AND QGNRI	TPSYVAFTDT	ERLIGDSAKN	[ 50 ]
ScSCKAR2	GIDLGTTYS C	VAVMKNGKTE	ILANEQGNRI	TPSYVAFTDD	ERLIGDAAKN	[ 50 ]
Orshsp70-15	GIDLGTTYS C	VGVYRNGHVE	II AND QGNRI	TPSWVAFTDG	ERLIGEAAKN	[ 50 ]
Orshsp70-15	GIDLGTTYS C	VGVYRNDRVE	II AND QGNRI	TPSWVAFTDG	ERLIGEAAKN	[ 50 ]
Orshsp70-14	GIDLGTTYS C	VGVYRNGHVE	II AND QGNRI	TPSWVAFTGG	ERLIGEAAKN	[ 50 ]
Orshsp70-13	GIDLGTTYS C	VGVYRNGHVD	IVANDQGNRI	TPSWVAFTDD	ERLVGEAAKN	[ 50 ]
Orshsp70-12	GIDLGTTYS C	VGVYKNGHVE	II AND QGNRI	TPSWVAFTDS	ERLIGEAAKN	[ 50 ]
Cmhsp70-4	GIDLGTTYS C	VGVFKNGKVE	II ANE QGNRI	TPSYVAFTDK	ERLIGDAAKN	[ 50 ]
Orhsps70-9	GIDLGTTYS C	VGVWQHDRVE	II AND QGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Tphsp70-5	GIDLGTTYS C	VGVFKNGRVE	IMANDQGNRI	TPSYVAFTMDN	ERLVGDAAKN	[ 50 ]
Olhsp70-5	GIDLGTTYS C	VSVWRNGEAH	VLTNAEGDRT	TPSWVAFTEQ	GRLVGDAAKR	[ 50 ]
Pfhsp70-3	GIDLGTTNSC	VAIMEGKQGK	VIENSEGFRT	TPSVVAFTND	QRLVGIVAKR	[ 50 ]
Pyhsp70-1	GIDLGTTYS C	VGVFKNGRVE	ILNNDLGNRI	TPSYVSFVDG	ERKVGEAAKL	[ 50 ]
ScSSB1	GIDLGTTYS C	VATYESS-VE	II ANE QGNRV	TPSFVAFTPE	ERLIGDAAKN	[ 50 ]
ScSSB2	GIDLGTTYS C	VATYESS-VE	II ANE QGNRV	TPSFVAFTPQ	ERLIGDAAKN	[ 50 ]
Tphsp70-3	GIDLGTTFSC	VACWDDKTNK	VEVISPSGR	CPSWVSFTKE	GKLVGTAAKS	[ 50 ]
Othsp70-2	GIDLGTTYS C	VSVWRNGEAH	VLTNAEGDRT	TPSWVAFTEQ	GRLIGDTAKR	[ 50 ]
Othsp70-4	GIDLGTTYS C	VGVWQHDRVE	II AND MGNRT	TPSYVAFTDS	ERLIGDSAKN	[ 50 ]

EcoliDnaK	GIDLGTTNSC	VAIMDGTTPR	VLENAEGDRT	TPSIIAYTQD	ETLVGQPAKR	[ 50 ]
Orshsp70-9	GIDLGTTNSC	VSVMEGKNPK	VIENSEGTRT	TPSVVAFNQK	ERLVGTPAKR	[ 50 ]
Orshsp70-11	GIDLGTTNSC	VSVMEGKTPR	VIENAEGART	TPSIVAKNQN	DLLVGITASR	[ 50 ]
Orshsp70-10	GIDLGTTNSC	VSVMEGKNPK	VIENSEGTRT	TPSVVAFNQK	ELLVGTPAKR	[ 50 ]
Athsp70-10	GIDLGTTYSC	VGVYKNGHVE	IIANDQGNRI	TPSWVGFTDS	ERLIGEAAKN	[ 50 ]
Athsp70-9	GIDLGTTNSC	VAVMEGKNPK	VIENAEGART	TPSVVAFNTK	ELLVGTPAKR	[ 50 ]
Orshsp70-4	GIDLGTTYSC	VGVWQHDRVE	IIANDQGNRT	TPSYVAFTDS	ERLIGDAAKN	[ 50 ]
Crhsp70-2	-----	MEGKSPR	VIENAEGART	TPSVIAFTDK	ERLVGLPAKR	[ 50 ]
Olhsp70-2	-----	MEGKNAR	VIENAEGART	TPSMVAFTDK	ERLVGQPAKR	[ 50 ]
Othsp70-3	GIDLGTTNSC	VAVMEGKNAR	VIENAEGART	TPSMVAFTDK	ERLVGQPAKR	[ 50 ]
Tphsp70-2	GIDLGTTNSC	VAIMEGRNAR	VIENSEGART	TPSVVAITDD	TRLVGMAAKR	[ 50 ]
Cmhsp702	GIDLGTTNSC	VAIMEGKAPR	VIENAEGQRT	TPSVVAFTSS	ERLVGIAAKR	[ 50 ]
ScECM10	GIDLGTTNSA	VAIMEGKVPR	IIENAEGSRT	TPSVVAFTKD	ERLVGEPAKR	[ 50 ]
ScSSC1	GIDLGTTNSA	VAIMEGKVPK	IIENAEGSRT	TPSVVAFTKE	ERLVGIPAKR	[ 50 ]
Orshsp70-8	GIDLGTTNSA	VAAMEGGKPT	IVTNAEGART	TPSVVAYTKS	DRLVGQIAKR	[ 50 ]
Orshsp70-7	GIDLGTTNSA	VAAMEGGKPT	VITNAEGQRT	TPSVVAYTKG	ERLVGQIAKR	[ 50 ]
Athsp70-6	GIDLGTTNSA	VAAMEGGKPT	IVTNAEGQRT	TPSVVAYTKS	DRLVGQIAKR	[ 50 ]
Athsp70-7	GIDLGTTNSA	VAAMEGGKPT	IVTNAEGQRT	TPSVVAYTKS	DRLVGQIAKR	[ 50 ]
Cchsp70-1	GIDLGTTNSV	IAVMEMGKPA	VIPNSEGFR	TPSVVAYAKN	DLLVGQIAKR	[ 50 ]
Cmhsp70-1	GIDLGTTNSV	IAVMEGGQPT	VVPNSEGFR	TPSVVAYTKN	DLLVGQIAKR	[ 50 ]
Athsp70-8	GIDLGTTNSC	VSVMEGKTAR	VIENAEGSRT	TPSVVAMNQK	ELLVGTPAKR	[ 50 ]
Crhsp70-1	GIDLGTTNSA	VAAMEGGKPT	IITNAEGGRT	TPSVVAFTKT	DRLVGQIAKR	[ 50 ]
Gthsp70-1	GIDLGTTNSV	IAVMEGGKPT	VIPNKEGLRT	TPSVVAYTKK	DKLVGQIAKR	[ 50 ]
Guthsp70-1	GIDLGTTNSV	VAVMEGGKPA	VIQNAEGFR	TPSVVAYTKT	DRLVGQIAKR	[ 50 ]
Olhsp70-1	GIDLGTTNSA	VAAMEGGSPT	IVTNAEGGRT	TPSVVAYTKT	DRLVGQIAKR	[ 50 ]
Oshsp70-1	GIDLGTTNSV	VAAIEGGQPS	VIVNAEGLRT	TPSIVAYTKK	ELLVGQIAKR	[ 50 ]
Pfhsp70-1	GIDLGTTYSC	VGVWRNENVD	IIANDQGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
Phhsp70-1	GIDLGTTNSV	IAVMEGGKPT	VIPNAEGFR	TASVVAYTKS	DKLVGQIARR	[ 50 ]
Pophsp70-1	GIDLGTTNSV	IAVMEGGKPT	VIPNAEGFR	TASVVAYTKS	DKLVGQIAR-	[ 50 ]
Poyhsp70-1	GIDLGTTNSV	IAVMEGGKPT	VIPNAEGFR	TASVVAYTKS	DKLVGQIARR	[ 50 ]
Pyhsp702	GIDLGTTYSC	VGVWRNENVD	IIANDQGNRT	TPSYVAFTDT	ERLIGDAAKN	[ 50 ]
SynDnaK1	GIDLGTTNSC	ASVLEGGKPI	VITNTEGGRT	TPSIVGFTKG	QRLVGQLAKR	[ 50 ]
SynDnaK2	GIDLGTTNSC	VAVMEGGKPT	VIANAEGFR	TPSVVGYAKN	DRLVGQIAKR	[ 50 ]
SynDnaK3	GIDLGTTNSV	VAVMEGGKPI	VIANAEGMRT	TPSVVGFNKE	ELVVGQMGR	[ 50 ]
Tphsp70-1	GIDLGTTNSV	VAAIEGGQPT	VITNAEGFR	TPSIVAYTKK	ELLVGQLAKR	[ 50 ]
Athsp70-1	QVAMNPVNTV	FDAKRLIGRR	FSDSSVQSDM	KLWPFKIQAG	-PADKPMIYV	[ 100 ]
Athsp70-2	QVAMNPVNTV	FDAKRLIGRR	FSDASVQSDR	QLWPFTIISG	-TAEKPMIVV	[ 100 ]
Athsp70-3	QVAMNPINTV	FDAKRLIGRR	FTDSSVQSDI	KLWPFTLKG	-PAEKPMIVV	[ 100 ]
Athsp70-4	QVAMNPTNTV	FDAKRLIGRR	YSDPSVQADK	SHWPFKVVSG	-PGEKPMIVV	[ 100 ]
Athsp70-5	QVALNPQNTV	FDAKRLIGRK	FSDPSVQSDI	LHWPFKVVSG	-PGEKPMIVV	[ 100 ]
Orshsp70-5	QVAMNPINTV	FDAKRLIGRR	FSDASVQSDI	KLWPFKVIAG	-PGDKPMIVV	[ 100 ]
Orshsp70-3	QVAMNPTNTV	FDAKRLIGRR	FSDPSVQSDM	KLWPFKVVPG	-PGDKPMIVV	[ 100 ]
Orshsp70-6	QVAMNPINTV	FDAKRLIGRR	FSDASVQSDI	KMWPYKVIPG	-PGDKPMIVV	[ 100 ]
Orshsp70-1	QVAMNPTNTV	FDAKRLIGRR	FSDPSVQADM	KMWPFKVVPG	-PADKPMIVV	[ 100 ]
Crhsp70-3	QVAMNPRHTV	FDAKRLIGRK	FSDPIVQADI	KLWPFQVRAG	-AHDVPEIVV	[ 100 ]
Olhsp70-4	QTAMNPMTV	FDAKRLIGRK	FSEPQVQADI	KDWSFKVEAG	-EADKPMIVV	[ 100 ]
Othsp70-5	QAVVNPQNTF	ASVKRFIGRK	MDE--VKSES	KEIPYSVVNA	-SGNVKIDCP	[ 100 ]

Tphsp70-4	QAAMNASNTV	FDAKRLIGRK	FSDPGVQSDM	KHWPFKVIPG	-TGGTPIIEV	[ 100 ]
Pfhsp70-2	EATLHPTQTV	FDVKRLIGRK	FDDQEVVKDR	SLLPYEIVNN	-QG-KPNIKV	[ 100 ]
ScSSA1	QAAMNPSNTV	FDAKRLIGRN	FNDPEVQADM	KHFPFKLIDV	-DG-KPQIQV	[ 100 ]
ScSSA2	QAAMNPANTV	FDAKRLIGRN	FNDPEVQGDM	KHFPFKLIDV	-DG-KPQIQV	[ 100 ]
ScSSA3	QAAINPHNTV	FDAKRLIGRK	FDDPEVTTDA	KHFPFKVISR	-DG-KPVVQV	[ 100 ]
ScSSA4	QAAMNPHTV	FDAKRLIGRK	FDDPEVTNDA	KHYPFKVIDK	-GG-KPVVQV	[ 100 ]
Cmhsp70-3	QVALNPENTV	FDAKRLIGRK	FSDPTVQEDM	KHWPFKVVQG	-PGDKPLIQU	[ 100 ]
Pyhsp70-3	QAITNPENTV	YATKRLIGRK	FDEDATKKEQ	KNLPYKIVRA	PNGD-AWIEA	[ 100 ]
Athsp70-11	QAAVNPERTV	FDVKRLIGRK	FEDKEVQKDR	KLVPYQIVNK	-DG-KPYIQV	[ 100 ]
Athsp70-12	QAAKNPERTI	FDPKRLIGRK	FDDPDVQRDI	KFLPYKVVNK	-DG-KPYIQV	[ 100 ]
Athsp70-13	QVAMNPVNTV	FDAKRLIGRR	FSDASVQSDM	KFWPFKVTPG	-QADKPMIFV	[ 100 ]
Crhsp70-4	QATVNPKRTI	YDVKRLIGRK	FSDADVQRDR	KLVSYDIVDR	-QG-KPYVAV	[ 100 ]
Crhsp70-5	QATVNPKRTV	YDVKRLIGRK	YEDKEVQRDK	KLVSYDIVDR	-QG-KPYVAV	[ 100 ]
Olhsp70-3	QASANPTRTV	FDAKRLIGRK	FTDKEVQRDL	KMFPFKVVDK	-DS-KPCIEV	[ 100 ]
Othsp70-1	QASANPTRTV	FDAKRLIGRK	FTDKEVQRDL	KMFPFKIVDK	-DS-KPCIEI	[ 100 ]
ScKAR2	QVAANPQNTI	FDIKRLIGLK	YNDRSVQKDI	KHLPFNVVNK	-DG-KPAVEV	[ 100 ]
Orshsp70-15	QAAANPERTI	YDAKRLIGRQ	FSDAEVQRDM	KLLPFAVVDR	-NG-KPHVRV	[ 100 ]
Orshsp70-16	QAAANPERTI	YDAKRLIGRQ	FSDAEVQRDM	KLLPFAVVDR	-NG-KPHVRV	[ 100 ]
Orshsp70-14	QAAANPGRTV	YDAKRLIGRR	FADAEVQRDM	RLLPFAVVDR	-GG-KPHVRV	[ 100 ]
Orshsp70-13	QAALNPDRTI	FDIKRLIGRR	FDDEEVQRDV	KYLPYKVVDK	-GG-KPYVEV	[ 100 ]
Orshsp70-12	QAAVNPERTI	FDVKRLIGRK	FEDKEVQRDM	KLVPYKIVNK	-DG-KPYIQV	[ 100 ]
Cmhsp70-4	QLALNPERTI	FDVKRLIGRR	FDEETVQKDI	KLLPYKVVNK	-DG-KPYIRV	[ 100 ]
Orshsp70-2	QVAMNPINTV	FDAKRLIGRR	FSDTSVQSDA	KLWPFKVLPG	-PGDKPMIGV	[ 100 ]
Tphsp70-5	QATINPENTV	FDVKRLIGRN	FSDKSVQADK	KLVPYKIVSN	-EN-KPMVEV	[ 100 ]
Olhsp70-5	QAAINPKNTL	FNIKRIIGRQ	YSE--CAHEL	ELMPFDVKEG	-EGGKPIVSV	[ 100 ]
Pfhsp70-3	QAITNPENTV	YATKRLIGRK	YDEDATKKEQ	KNLPYKIVRA	SNGD-AWIEA	[ 100 ]
Pyhsp70-1	EATLHPTQTV	FDVKRLIGRK	FDDKEVAKDR	TLLPYEIVNN	-EG-KPNIKV	[ 100 ]
ScSSB1	QAALNPRNTV	FDAKRLIGRR	FDDESVQKDM	KTWPFKVIDV	-DG-NPVIEV	[ 100 ]
ScSSB2	QAALNPRNTV	FDAKRLIGRR	FDDESVQKDM	KTWPFKVIDV	-DG-NPVIEV	[ 100 ]
Tphsp70-3	QVASNPRNTV	YDIKRIIGRS	FTDPVTAEEC	KNFPFEVSEG	GAHGEPKIVV	[ 100 ]
Othsp70-2	QAAVNPKNTL	FNIKRIIGRQ	YSE--CADDI	ALMPFDVKEG	-EGGKPVISV	[ 100 ]
Othsp70-4	QTAMNPTNTV	FDAKRLIGRK	FSEPQVQADI	KDWSFKVEAG	-EHDKPMIAV	[ 100 ]
EcoliDnaK	QAVTNPQNTL	FAIKRLIGRR	FQDEEVQRDV	SIMPFKIIAA	DNGD-AWVEV	[ 100 ]
Orshsp70-9	QAVTNPQNTF	FGTKRLIGRR	FEDPQTQKEM	KMVPYKIVKA	PNGD-AWVET	[ 100 ]
Orshsp70-11	QAVTNQAQNTV	RGSKRLIGRT	FDDPQTQKEM	KMVPYKIVRG	PNGD-AWVEM	[ 100 ]
Orshsp70-10	QAVTNPQNTF	FGTKRLIGRR	FDDPQTQKEM	KMVPYKIVKA	LNGD-AWLET	[ 100 ]
Athsp70-10	QAAVNPERTV	FDVKRLIGRK	FEDKEVQKDR	KLVPYQIVNK	-DG-KPYIQV	[ 100 ]
Athsp70-9	QAVTNPTNTV	SGTKRLIGRK	FDDPQTQKEM	KMVPYKIVRA	PNGD-AWVEA	[ 100 ]
Orshsp70-4	QVAMNPINTV	FDAKRLIGRR	FSDPSVQSDM	KLWPFKVIPG	-PGDKPMIVV	[ 100 ]
Crhsp70-2	QAVTNPTNTV	YATKRLIGRG	YDDPQTQKEA	KMVPYKIVKA	KNGD-AWVEA	[ 100 ]
Olhsp70-2	QAVTNPTNTL	YATKRLIGRT	FEDEHTQKEA	KLVPYEIVKA	SNGD-AWVAA	[ 100 ]
Othsp70-3	QAVTNPTNTL	YATKRLIGRT	FEDEHTQKEA	KLVPYEIIKA	PNGD-AWVSA	[ 100 ]
Tphsp70-2	QAVTNPENTF	YAVKRLIGRS	FSDKEVKDIQ	GLVPYNIVKS	DNNDDAWVEA	[ 100 ]
Cmhsp70-2	QAVTNPENTI	FAAKRLIGRR	YEDPEVQRDV	KIMPYKIVRA	DNGD-AWVEA	[ 100 ]
ScECM10	QSVINSENTL	FATKRLIGRR	FEDAEVQRDI	NQVPFKIVKH	SNGD-AWVEA	[ 100 ]
ScSSC1	QAVVNPENTL	FATKRLIGRR	FEDAEVQRDI	KQVPYKIVKH	SNGD-AWVEA	[ 100 ]
Orshsp70-8	QAVVNPENTF	FSVKRFIGRK	MNE--VDEES	KQVSYRVIRD	DNGNVKLDCP	[ 100 ]
Orshsp70-7	QAVVNPENTF	FSVKRFIGRK	MAE--VDSEA	KQVSYHVVRD	DNGNVKLDCP	[ 100 ]

Athsp70-6	QAVVNPENTF	FSVKRFIGRK	MNE--VDEES	KQVSYRVVRD	ENNNVKLECP	[ 100 ]
Athsp70-7	QAVVNPENTF	FSVKRFIGRR	MNE--VAEES	KQVSYRVIKD	ENGNVKLDCP	[ 100 ]
Cchsp70-1	QAVINPSNTF	YSVKRFIGRK	FEE--INEEN	RQVTYQVNKD	PSGNVKIYCP	[ 100 ]
Cmhsp70-1	QAVINPGNTF	YSVKRFIGRK	FSE--IEQEA	KQVPYPVQAD	GKGNVRIFCS	[ 100 ]
Athsp70-8	QAVTNPTNTI	FGSKRLIGRR	FDDPQTQKEM	KMVPYKIVKA	PNGD-AWVEA	[ 100 ]
Crhsp70-1	QAVVNPENTF	FSVKRFIGRR	MSE--VGSES	TQVPYRVIED	-GGNVKIKCP	[ 100 ]
Gthsp70-1	QAVMNPENTF	YSVKRFIGRK	KDE--LGDEL	KQSSYNVKTD	INSNVKLECP	[ 100 ]
Guthsp70-1	QAVINPDNTF	YSVKRFIGRR	SEE--VSEEL	KQVSYIVKTD	SNGNIKLDCP	[ 100 ]
Olhsp70-1	QGVVNPENTF	FSVKRFIGRK	MDE--VNSES	KEIPYSVVNS	-AGKVIECP	[ 100 ]
Oshsp70-1	QAVINPENTF	FSVKRFIGSK	ELE--ISADS	KKLPYKVVKD	QNIGNIKINCS	[ 100 ]
Pfhsp70-1	QVARNPENTV	FDAKRLIGRK	FTESSVQSDM	KHWPFTVKSG	-VDEKPMIEV	[ 100 ]
Phhsp70-1	QAVINPENTF	YSVKRFIGRK	QNE--ISQEI	RQTSYNVKTS	GSS-IKIACP	[ 100 ]
Pophsp70-1	QAVINPENTF	YSVKRFIGRK	QNE--ISQEI	RQTSYNVKTS	GSS-IKIECP	[ 100 ]
Poyhsp70-1	QAVINPENTF	YSVKRFIGRK	QNE--ISQEI	RQTSYNVKTS	GSS-IKIACP	[ 100 ]
Pyhsp70-2	QVARNPENTV	FDAKRLIGRK	FTESSVQSDM	KHWPFTVKSG	-IEEKPMIEV	[ 100 ]
SyDnaK1	QSVTNAENTV	YSIKRFIGRR	WDD--TVEER	SRVPYNCVKG	RDDTVSVSIR	[ 100 ]
SynDnaK2	QAVMNPNTF	YSVKRFIGRK	FDE--ITNEA	TEVAYSVVKD	GNGNVKLDCP	[ 100 ]
SynDnaK3	QAVLNPQNTF	YGVKRFMGRR	YTD--LTPES	KRVAYTIRRD	DRDNIKVRCP	[ 100 ]
Tphsp70-1	QSVVNAENTF	FSVKRFIGCK	ADE--ISEES	KELPYKVIKD	SNGNIKIKCS	[ 100 ]
Athsp70-1	EYKKEFAAEE	ISSMVLIKMR	EIAEAYLGVT	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Athsp70-2	EYKKQFAAEE	ISSMVLIKMR	EIAEAFLGTT	VKNNAVVTVP	YFNDSQRQAT	[ 150 ]
Athsp70-3	NYKKEFSAEE	ISSMILIKMR	EIAEAYLGTT	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Athsp70-4	NHKKQFSAAEE	ISSMVLIKMR	EIAEAFLGSP	VKNNAVVTVP	YFNDSQRQAT	[ 150 ]
Athsp70-5	SYKKQFSPEE	ISSMVLVVKMK	EVAEAFLGRT	VKNNAVVTVP	YFNDSQRQAT	[ 150 ]
Orshsp70-5	QYKKQFAAEE	ISSMVLIKMR	EIAEAYLGTT	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Orshsp70-3	QYKKQFAAEE	ISSMVLIKMR	EIAEAYLGSS	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Orshsp70-6	QYKKQFSAAEE	ISSMVLIKMR	EIAEAYLGST	VKNNAVVTVP	YFNDSQRQAT	[ 150 ]
Orshsp70-1	TYKKKFSAAEE	ISSMVLTKMK	EIAEAFLSTT	IKNAVITVP	YFNDSQRQAT	[ 150 ]
Crhsp70-3	SYKKVFKAEE	ISSMVLIKMK	ETAQAFGLGAD	VKKAVVTVP	YFNDSQRQAT	[ 150 ]
Olhsp70-4	EFHKKFSAAEE	ISSMVLVVKMK	EVAEAYLGKD	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Othsp70-5	ALGKQFAAEE	ISAQVLRKLC	DDAATFLGDT	VTKAVVTVP	YFNDSQRQAT	[ 150 ]
Tphsp70-4	EYKKQFKAAEE	ISSMVLTKMK	EIAEAYLGKE	VKNNAVVTVP	YFNDSQRQAT	[ 150 ]
Pfhsp70-2	QIKTTFAPEQ	ISAMVLEKMK	EIAQSFLGKP	VKNNAVVTVP	YFNDAQRQAT	[ 150 ]
SCSCSSA1	EFKKNFTPEQ	ISSMVLGKMK	ETAESYLGAK	VNDAVVTVP	YFNDSQRQAT	[ 150 ]
SCSCSSA2	EFKKNFTPEQ	ISSMVLGKMK	ETAESYLGAK	VNDAVVTVP	YFNDSQRQAT	[ 150 ]
SCSCSSA3	EYKKTFTPEE	ISSMVLSKMK	ETAENYLGTT	VNDAVVTVP	YFNDSQRQAT	[ 150 ]
SCSCSSA4	EYKKTFTPEE	ISSMILTKMK	ETAENFLGTE	VKDAVVTVP	YFNDSQRQAT	[ 150 ]
Cmhsp70-3	VAHKRFSPEE	ISAMVLTKMK	DIAESYLGTK	VTDAVITVP	YFNDSQRQAT	[ 150 ]
Pyhsp70-3	Q-GKKYSPSQ	IGACVLEKMK	ETAENYLGRK	VHQAVITVP	YFNDSQRQAT	[ 150 ]
Athsp70-11	KIKKVFSPPEE	ISAMILTKMK	ETAEAYLGKK	IKDAVVTVP	YFNDAQRQAT	[ 150 ]
Athsp70-12	KVKKLFSPEE	ISAMILTKMK	ETAEAFLGKK	IKDAVITVP	YFNDAQRQAT	[ 150 ]
Athsp70-13	NYKKQFAAEE	ISSMVLIKMR	EIAEAYLGSS	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Crhsp70-4	DVKKVFSPEE	ISAMILQKMK	DTAEAYLGKT	VKHAVVTVP	YFNDAQRQAT	[ 150 ]
Crhsp70-5	DVKKVFSPEE	ISAMILQKMK	DTAEAYLGKT	VKHAVVTVP	YFNDAQRQAT	[ 150 ]
Olhsp70-3	ELKKVFQAAEE	ISAMVLTKMK	ETAEAYLGKD	IKHAVVTVP	YFNDAQRQAT	[ 150 ]
Othsp70-1	ELKKIFQAAEE	ISAMVLTKMK	ETAEAYLGKD	IKNAVVTVP	YFNDAQRQAT	[ 150 ]
SCKAR2	SVKKVFTPEE	ISGMILGKMK	QIAEDYLGTK	VTHAVVTVP	YFNDAQRQAT	[ 150 ]

Orshsp70-15	EVKRVFSPEE	VSAMVLTRMK	ETAEAYLGEK	VTRAVVTVPA	YFNDAQRQAT	[ 150 ]
Orshsp70-16	EVKRVFSPEE	VSAMVLTRMK	ETAEAYLGEK	VTRAVVTVPA	YFNDAQRQAT	[ 150 ]
Orshsp70-14	EVRRLLSPEE	VSAMVLARMK	ETAEAYLGEE	VTRAVVTVPA	YFNDAQRQAT	[ 150 ]
Orshsp70-13	RVKKVFSPEE	ISAMILAKMK	ETAESYLGQR	VTDAVVTVP	YFNDAQRQAT	[ 150 ]
Orshsp70-12	KIKKVFSPPEE	VSAMILGKMK	ETAEAYLGKK	INDAVVTVP	YFNDAQRQAT	[ 150 ]
Cmhsp70-4	EVRKTFSPPEE	ISAMILGKMK	KIAEDYLGKP	VKNAAVVTVP	YFNDAQRQAT	[ 150 ]
Orshsp70-2	QYKKQFSAEE	ISSMVLNKM	ETAEAYLGST	VKNAAVVTVP	YFNDSQRQAT	[ 150 ]
Tphsp70-5	DIEQRFAPEE	VSAMILQKMK	STAETFLGKE	IKNAVVTVP	YFNDAQRQAT	[ 150 ]
Olhsp70-5	DVNKDFAPEQ	ISAMVLQKMK	ATAEAQLGVP	ITKAVVTVPA	YFNDAQRQAT	[ 150 ]
Pfhsp70-3	Q-GKKYSPSQ	IGACVLEKMK	ETAENYLGK	VHQAVITVP	YFNDSQRQAT	[ 150 ]
Pyhsp70-1	QIKTTFAPEQ	ISAMVLEKMK	EIAQSFLGKP	VKNAAVVTVP	YFNDAQRQAT	[ 150 ]
SCSCSSB1	QYLKTFSPQE	ISAMVLTKMK	EIAEAKIGKK	VEKAVITVP	YFNDAQRQAT	[ 150 ]
SCSCSSB2	QYLKTFSPQE	ISAMVLTKMK	EIAEAKIGKK	VEKAVITVP	YFNDAQRQAT	[ 150 ]
Tphsp70-3	EWRKELRPEE	ISAMVLAEELK	LAAERHLGRE	VKGAVITVP	HFNNQQRQAT	[ 150 ]
Othsp70-2	EVGKEFAPEQ	ISAMVLQKMK	ATAEAQLGVP	ITKAVVTVPA	YFNDAQRQAT	[ 150 ]
Othsp70-4	DFHKKFSAEE	ISSMVLVKMK	ETAEAYLGKE	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
EcoliDnaK	K-GQKMAPPQ	ISAEVLKKMK	KTAEDYLGEP	VTEAVITVP	YFNDAQRQAT	[ 150 ]
Orshsp70-9	TDGKQYSPSQ	IGAFVLTKMK	ETAESYLGKT	VSKAVITVP	YFNDAQRQAT	[ 150 ]
Orshsp70-11	G-GQQYSPSQ	IGAFVLTKMK	ETAEAFLGKT	VSKAVITVP	YFNDAQRQAT	[ 150 ]
Orshsp70-10	TDGKQYSPSQ	IGAFVLTKMK	ETAESYLGKS	VSKAVITVP	YFNDAQRQAT	[ 150 ]
Athsp70-10	KIKKVFSPPEE	ISAMILTKMK	ETAEAYLGKK	IKDAVVTVP	YFNDAQRQAT	[ 150 ]
Athsp70-9	N-GQQYSPSQ	IGAFILTKMK	ETAEAYLGKS	VTKAVVTVPA	YFNDAQRQAT	[ 150 ]
Orshsp70-4	QYKKQFSAEE	ISSMVLIKMR	EIAEAYLGSN	IKNAVVTVP	YFNDSQRQAT	[ 150 ]
Crhsp70-2	A-GQQYSPSQ	MGAFLVTKMK	ETAEAYLGHP	VSKAVITVP	YFNDSQRQAT	[ 150 ]
Olhsp70-2	G-GKQYSPSQ	VGAFVLQKMK	ETAEAYLGHG	VSQAVVTVPA	YFNDAQRQAT	[ 150 ]
Othsp70-3	G-GKQYSPSQ	VGAFVLQKMK	ETAEAYLGSN	VSQAVITVP	YFNDAQRQAT	[ 150 ]
Tphsp70-2	R-GKKFSPSQ	IGSMVLGKMK	ETAEGFLGRD	VTKAVVTVPA	YFNDSQRQAT	[ 150 ]
Cmhsp70-2	Q-GNRYSPAQ	IGAFVLQKMK	ETAESFLGRT	VNNAVITVP	YFNDAQRQAT	[ 150 ]
SCECM10	R-NRTYSPAQ	IGGFILNKM	ETAEAYLAKS	VKNAAVVTVP	YFNDAQRQAT	[ 150 ]
SSC1	R-GQTYSPAQ	IGGFVLNKM	ETAEAYLGKP	VKNAAVVTVP	YFNDSQRQAT	[ 150 ]
Orshsp70-8	AIGKQFAAEE	ISAQVLRKLV	DDASKFLNDK	VTKAVITVP	YFNDSQRQAT	[ 150 ]
Orshsp70-7	AIGKQFAAEE	ISAQVLRKLV	DDASKFLNDK	ITKAVVTVPA	YFNDSQRQAT	[ 150 ]
Athsp70-6	AINKQFAAEE	ISAQVLRKLV	DDASRFLNDK	VTKAVITVP	YFNDSQRQAT	[ 150 ]
Athsp70-7	AIGKQFAAEE	ISAQVLRKLV	DDASRFLNDK	VTKAVITVP	YFNDSQRQAT	[ 150 ]
Cchsp70-1	FKNKDFTPEE	ISAQVIRKLT	EGASKYLGEK	ITKAVITVP	YFNDSQRQAT	[ 150 ]
Cmhsp70-1	AKDKFFAPEE	ISAQVLRKLV	DSASQYLGEK	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Athsp70-8	N-GQKFSPSQ	IGANVLTKMK	ETAEAYLGKS	INKAVVTVPA	YFNDAQRQAT	[ 150 ]
Crhsp70-1	NAGKDFAPEE	ISAQVLRKLT	EDAALKFLNDK	VEKAVITVP	YFNDSQRQAT	[ 150 ]
Gthsp70-1	ALSKDFAPEE	ISAQVLRKLV	EDASTYLGQQ	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Guthsp70-1	SLKKEFASEE	ISAEVLRKLV	DDASKYLGES	VKQAVITVP	YFNDSQRQAT	[ 150 ]
Olhsp70-1	ALGKQFAAEE	ISAQVLRKLC	DDAASFGLDA	VTKAVVTVPA	YFNDSQRQAT	[ 150 ]
Oshsp70-1	SLNKEFSPEE	ISAQVLRKLI	NDATSYLGQD	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Pfhsp70-1	TYQKLFHPEE	ISSMVLQKMK	ENAEAFLGKS	IKNAVITVP	YFNDSQRQAT	[ 150 ]
Phhsp70-1	ALDKDFAPEE	ISAQVLRKLV	EDASTYLGET	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Pophsp70-1	ALNKDFAPEE	ISAQVLRKLV	EDASTYLGET	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Poyhsp70-1	ALNKDFAPEE	ISAQVLRKLV	EDASTYLGET	VTQAVITVP	YFNDSQRQAT	[ 150 ]
Pyhsp70-2	VYQKLFHPEE	ISSMVLQKMK	ENAEAFLGKS	IKNAVITVP	YFNDSQRQAT	[ 150 ]
SyDnaK1	G--QSYTPQE	ISAMILQKLK	ADSEAFLGEP	VTQAVITVP	YFTDAQRQAT	[ 150 ]

SynDnaK2	AQGKQFAPEE	ISAQVLRKLV	DDASKYLGET	VTOAVITVPA	YFNDSQRQAT	[ 150 ]
SynDnaK3	RLKKDFAPEE	ISAMILRKLA	EEASRYLGEK	VTGAVITVPA	YFNDSQRQAT	[ 150 ]
Tphsp70-1	SLNKDFSPEE	ISAQVIRKLI	ADAKEYLGQD	VTKAVITVPA	YFNDSQRQAT	[ 150 ]
Athsp70-1	KDAGVIAGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Athsp70-2	KDAGVIAGLN	VLRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Athsp70-3	KDAGVIAGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Athsp70-4	KDAGVISGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Athsp70-5	KDAGAISGLN	VLRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Orshsp70-5	KDAGVIAGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Orshsp70-3	KDAGVIAGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Orshsp70-6	KDAGVIAGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Orshsp70-1	KDAGVISGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSILT	[ 200 ]
Crhsp70-3	KDAGMIAGLE	VLRIIINEPTA	AAIAYGLDKK	ERNVLIFDLG	GGTFDVSLLT	[ 200 ]
Olhsp70-4	KDAAVISGLN	CLRIIINEPTA	AAIAYGLDKR	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Othsp70-5	KDAGQIAIGIE	VLRIIINEPTA	ASLAYGFDRK	NETILIFDLG	GGTFDVSILE	[ 200 ]
Tphsp70-4	KDAGAISGLN	VLRIIINEPTA	AAIAYGLDQK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Pfhsp70-2	KDAGTIAGLN	IVRIIINEPTA	AALAYGLDKK	-TSILVYDLG	GGTFDVSILV	[ 200 ]
SCSSA1	KDAGTIAGLN	VLRIIINEPTA	AAIAYGLDKK	EH-VLIFDLG	GGTFDVSLLS	[ 200 ]
SCSSA2	KDAGTIAGLN	VLRIIINEPTA	AAIAYGLDKK	EH-VLIFDLG	GGTFDVSLLS	[ 200 ]
SCSSA3	KDAGTIAGMN	VLRIIINEPTA	AAIAYGLDKK	EHNVLIFDLG	GGTFDVSLLS	[ 200 ]
SCSSA4	KDAGTIAGLN	VLRIIINEPTA	AAIAYGLDKK	EHNVLIFDLG	GGTFDVSLLS	[ 200 ]
Cmhsp70-3	KDAGTIAGLN	VLRIIINEPTA	AAIAYGIDKK	ERNVLIYDLG	GGTFDVSLLS	[ 200 ]
Pyhsp70-3	KDAGKIAGLD	VLRIIINEPTA	AALAFGLEKS	GKVIAVYDLG	GGTFDVSILE	[ 200 ]
Athsp70-11	KDAGVIAGLN	VARIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSVLT	[ 200 ]
Athsp70-12	KDAGAIAGLN	VVRIIINEPTG	AAIAYGLDKK	ESNILVYDLG	GGTFDVSILT	[ 200 ]
Athsp70-13	KDAGVIAGLN	VLRIIINEPTA	AAIAYGLDKK	IKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Crhsp70-4	KDAGTISGLN	VVRIIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
Crhsp70-5	KDAGTISGLN	VVRIIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
Olhsp70-3	KDAGVIAGLN	VARIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
Othsp70-1	KDAGIIAGLN	VARIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
ScKAR2	KDAGTIAGLN	VLRIVNEPTA	AAIAYGLDKS	EHQIIVYDLG	GGTFDVSLLS	[ 200 ]
Orshsp70-15	KDAGVIAGLT	VDRIIINEPTA	AAIAYGIDKK	EKNVLVFDLG	GGTFDVSILA	[ 200 ]
Orshsp70-16	KDAGVIAGLT	VDRIIINEPTA	AAIAYGIDKK	EKNVLVFDLG	GGTFDVSILA	[ 200 ]
Orshsp70-14	KDAATIAGLA	VERILNEPTA	AALAYGVGKE	GKNVLVFDLG	GGTFDVSVLA	[ 200 ]
Orshsp70-13	KDAGTIAGLN	VPRIIINEPTA	AAIAYGLDRK	MTNVLVYDLG	GGTFDVSVLS	[ 200 ]
Orshsp70-12	KDAGVIAGLN	VARIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
Cmhsp70-4	KDAGTIAGLT	VQRIIINEPTA	AAIAYGLDKG	EKNILVFDLG	GGTFDVTLLT	[ 200 ]
Orshsp70-2	KDAGVISGLN	VMRIIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Tphsp70-5	KDAGTISGMK	VERIINEPTA	AAIAYGMDKT	ESNLVLFDLG	GGTFDVTLLT	[ 200 ]
Olhsp70-5	KDAGAIAGLD	VLRIIINEPTA	AALAYGLDRR	NQCILVFDLG	GGTFDVSLLN	[ 200 ]
Pfhsp70-3	KDAGKIAGLD	VLRIIINEPTA	AALAFGLEKS	GKVIAVYDLG	GGTFDISILE	[ 200 ]
Pyhsp70-1	KDAGAIAGLN	IVRIIINEPTA	AALAYGLDKK	-TSILVYDLG	GGTFDVSILV	[ 200 ]
ScSSB1	KDAGAISGLN	VLRIIINEPTA	AAIAYGLGAG	-RHVLIFDLG	GGTFDVSLLH	[ 200 ]
ScSSB2	KDAGAISGLN	VLRIIINEPTA	AAIAYGLGAG	-RHVLIFDLG	GGTFDVSLLH	[ 200 ]
Tphsp70-3	KDAGRIAGLD	VKRIIINEPTA	AALSYGLHAK	KANVVIFDLG	GGTFDVSVLA	[ 200 ]
Othsp70-2	KDAGAIAGLD	VLRIIINEPTA	AALAYGLDRR	SQCILVFDLG	GGTFDVSLLA	[ 200 ]
Othsp70-4	KDAAVIAGLN	CLRIIINEPTA	AAIAYGLDKR	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]

EcoliDnaK	KDAGRIAGLE	VKRRIINEPTA	AALAYGLDKG	NRTIAVYDLG	GGTFDISIIIE	[ 200 ]
Orshsp70-9	KDAGRIAGLD	VQRIINEPTA	AALSYGTMNK	G-LIAVFDLG	GGTFDVSILE	[ 200 ]
Orshsp70-11	KDAGRIAGLE	VMRIINEPTA	AALSYGMNNK	G-LIAVFDLG	GGTFDVSILE	[ 200 ]
Orshsp70-10	KDAGRIAGLD	VQRIINEPTA	AALSYGTMNK	G-LIAVFDLG	GGTFDVSILE	[ 200 ]
Athsp70-10	KDAGVIAGLN	VARIINEPTA	AAIAYGLDKK	EKNILVFDLG	GGTFDVSILT	[ 200 ]
Athsp70-9	KDAGRIAGLD	VERIINEPTA	AALSYGMTNK	G-LIAVFDLG	GGTFDVSILE	[ 200 ]
Orshsp70-4	KDAGVIAGLN	VMRIINEPTA	AAIAYGLDKK	EKNVLIFDLG	GGTFDVSLLT	[ 200 ]
Crhsp70-2	KDAGKIAGLE	VLRIINEPTA	AALAYGTDKK	G-LIAVYDLG	GGTFDISILE	[ 200 ]
Olhsp70-2	KDAGKIAGLD	VLRRIINEPTA	AALSYGVDKK	G-LVAVYDLG	GGTFDVSILE	[ 200 ]
Othsp70-3	KDAGKIAGLE	VLRRIINEPTA	AALSYGVDKK	G-LVAVYDLG	GGTFDVSILE	[ 200 ]
Tphsp70-2	KDAGKIAGLD	VLRRIINEPTA	AALAYGMDKA	GKTIAVFDLG	GGTFDVSILE	[ 200 ]
Cmhsp70-2	KDAGRIAGLN	VLRRIINEPTA	AALAYGLDKA	GRVVAVYDLG	GGTFDVSILE	[ 200 ]
ScECM10	KDAGQIIGLN	VLRVVNEPTA	AALAYGLDKS	PKVIAVFDLG	GGTFDISILD	[ 200 ]
ScSSC1	KDAGQIVGLN	VLRVVNEPTA	AALAYGLEKS	SKVVAVFDLG	GGTFDISILD	[ 200 ]
Orshsp70-8	KDAGRIAGLE	VLRRIINEPTA	ASLAYGFEKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Orshsp70-7	KDAGRIAGLE	VLRRIINEPTA	ASLAYGFEKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Athsp70-6	KDAGRIAGLE	VLRRIINEPTA	ASLAYGFDRK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Athsp70-7	KDAGRIAGLE	VLRRIINEPTA	ASLAYGFERK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Cchsp70-1	KDAGKIAGLD	VLRRIINEPTA	ASLAYGLDKK	NEKILVFDLG	GGTFDTITLE	[ 200 ]
Cmhsp70-1	KDAGKIAGLD	VLRRIINEPTA	ASLAYGLDKK	NEKILVFDLG	GGTFDVSILE	[ 200 ]
Athsp70-8	KDAGKIAGLD	VQRIINEPTA	AALSYGMMNK	G-VIAVFDLG	GGTFDVSILE	[ 200 ]
Crhsp70-1	KDAGKIAGLE	VLRRIINEPTA	ASLAYGFDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Gthsp70-1	KDAGQIAGLD	VLRRIINEPTA	ASLSYGLDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Guthsp70-1	KDAGRIAGLE	VLRRIINEPTA	ASLAYGLDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Olhsp70-1	KDAGQIAGIE	VLRRIINEPTA	ASLAYGFDRK	NETILIFDLG	GGTFDVSILE	[ 200 ]
Oshsp70-1	MDAGKIAGVE	VLRRIINEPTA	ASLAYGLDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Pfhsp70-1	KDAGTIAGLN	VMRIINEPTA	AAIAYGLHKK	EKNILIFDLG	GGTFDVSLLT	[ 200 ]
Phhsp70-1	KDAGKIAGLD	VLRRIINEPTA	APLSYGLDKQ	NETILVFDLG	GGTFDVSILE	[ 200 ]
Pophsp70-1	KDAGKIAGLD	VLRRIINEPTA	ASLSYGLDKQ	NETILVFDLG	GGTFDVSILE	[ 200 ]
Poyhsp70-1	KDAGKIAGLD	VLRRIINEPTA	ASLSYGLDKQ	NETILVFDLG	GGTFDVSILE	[ 200 ]
Pyhsp70-2	KDAGTIAGLN	VMRIINEPTA	AAIAYGLHKK	EKNILIFDLG	GGTFDVSLLT	[ 200 ]
SyDnaK1	KDAGTIAGLE	VLRRIINEPTA	AALAYGLDKQ	EELILVFDLG	GGTFDVSLLQ	[ 200 ]
SynDnaK2	KDAGKIAGIE	VLRRIINEPTA	ASLAYGLDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
SynDnaK3	RDAGKIAGLE	VLRRIINEPTA	ASLAYGLDQG	IQKILVFDLG	GGTFDVSILE	[ 200 ]
Tphsp70-1	VDAGKIAGIE	VLRRIINEPTA	ASLAYGLDKK	NETILVFDLG	GGTFDVSILE	[ 200 ]
Athsp70-1	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKSKKD	ITGNPRALRR	[ 250 ]
Athsp70-2	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKNKQD	ITGQPRALRR	[ 250 ]
Athsp70-3	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKNKKD	ISGNPRALRR	[ 250 ]
Athsp70-4	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKNKKD	ITGNPRALRR	[ 250 ]
Athsp70-5	IEEVFEVKAT	AGDTHLGGED	FDNRLVNHFV	AEFRRKHKKD	IAGNARALRR	[ 250 ]
Orshsp70-5	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKNKKD	ITGNPRALRR	[ 250 ]
Orshsp70-3	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKNKKD	ISGNPRALRR	[ 250 ]
Orshsp70-6	IEEIFEVKAT	AGDTHLGGED	FDNRLVNHFV	QEFKRKHKKD	ISGNPRALRR	[ 250 ]
Orshsp70-1	IEEIFEVKAT	AGDTHLGGED	FDNRMVNHFV	QEFKRKHKKD	ITGNPRALRR	[ 250 ]
Crhsp70-3	IEEIFEVKAT	AGDTHLGGED	FDERLVNHFA	NEFQRKYKKD	LKTSPRALRR	[ 250 ]
Olhsp70-4	IEEIFEVKAT	AGDTHLGGED	FDARLLQHFI	AEFKRKNKKD	ITGNPKALRR	[ 250 ]
Othsp70-5	VGDVFEVLST	SGDTHLGGDD	FDKRVVWLA	DDFKKAEGID	LKNDKQALQR	[ 250 ]

Tphsp70-4	IEEIFEVKAT AGDTHLGGED FDNRMVVDYFL QDFKRRTKKD MSQNQRSLRR [ 250 ]
Pfhsp70-2	IDNVFEVYAT AGNTHLGGED FDQRVMDYFI KMFKKNNID LRTDKRAIQK [ 250 ]
ScSSA1	IEDIFEVKAT AGDTHLGGED FDNRLVNHFI QEFKRKNKKD LSTNQRALRR [ 250 ]
ScSSA2	IEDIFEVKAT AGDTHLGGED FDNRLVNHFI QEFKRKNKKD LSTNQRALRR [ 250 ]
ScSSA3	IDEVFEVKAT AGDTHLGGED FDNRLVNLHA TEFKRRTKKD ISNNQRSLRR [ 250 ]
ScSSA4	IDEVFEVKAT AGDTHLGGED FDSRLVNFLA EEFKRKNKKD LTTNQRSLRR [ 250 ]
Cmhsp70-3	VDSIFEVRAV SGNSHLGGED FDSRMVVDYFV KEFKRKYKED ITGNNRAMRR [ 250 ]
Pyhsp70-3	ILGVFEVKAT NGNTSLGGED FDQRILEYFI NEFKKENID LKNDKLALQR [ 250 ]
Athsp70-11	IDNVFEVLST NGDTHLGGED FDHRIMEYFI KLIKHHQKD ISKDNKALGK [ 250 ]
Athsp70-12	IDNVFEVLST SGDTHLGGED FDHRVMDYFI KLVKKKYNKD ISKDHKALGK [ 250 ]
Athsp70-13	IEEIFEVKAT AGDTHLGGED FDNRMVNHFV QEFKRKNKKD ISGDARALRR [ 250 ]
Crhsp70-4	IDNVFEVIST NGDTHLGGED FDQRVMEYFI KLIKHHQKD ISGDARALQK [ 250 ]
Crhsp70-5	IDNVFEVIST NGDTHLGGED FDQRVMEYFI KLIKHHQKD ISGDARALQK [ 250 ]
Olhsp70-3	IDNVFEVIST NGDTHLGGED FDQRIMEYFM KLIKRKHGKD VSGDVKAVQK [ 250 ]
Othsp70-1	IDNVFEVIST NGDTHLGGED FDQRIMEYFI KLIKRKHGKD ISSDSKAVQK [ 250 ]
SckAR2	IENVFEVQAT SGDTHLGGED FDYKIVRQLI KAFKKKHGID VSDNNKALAK [ 250 ]
Orshsp70-15	IDNVFEVLAT NGDTHLGGED FDQRIMDHFV KVIRRKHGRD ITGDARALGK [ 250 ]
Orshsp70-16	IDNVFEVLAT NGDTHLGGED FDQRIMDHFV KVIRRKHGRD IAGDARALGK [ 250 ]
Orshsp70-14	IDGVYEVLAT NGDTHLGGED FDQRVMEHFV ELVRRKHGRD IAGDARALGK [ 250 ]
Orshsp70-13	LDHVFEVLAT SGDTHLGGED FDRRVMDHFI RLVRQHGRD IGGDGRALGK [ 250 ]
Orshsp70-12	IDNVFEVLAT NGDTHLGGED FDQRIMEYFI KLIKHHQKD ISKDNRALGK [ 250 ]
Cmhsp70-4	LDDVFEVLAT NGDTHLGGED FDQRVMDYLV KQFKKKNDL D LRTDKRAMAK [ 250 ]
Orshsp70-2	IEEIFEVKAT AGDTHLGGED FDNRMVNHFV QEFKRKNKKD ITGNPRALRR [ 250 ]
Tphsp70-5	IDNVFEVLAT NGDTHLGGED FDQRVMQYFI KMMKKKSND ISGDKRALQK [ 250 ]
Olhsp70-5	LQDVFEVLST AGDTHLGGED FDTSLAAFAQ KEIEKERGDI --GDEKALRK [ 250 ]
Pfhsp70-3	ILSVFEVKAT NGNTSLGGED FDQRILEYFI SEFKKENID LKNDKLALQR [ 250 ]
Pyhsp70-1	IDNVFEVYAT AGNTHLGGED FDQRVMDYFI KMFKKNNID LRSDKRAIQK [ 250 ]
ScSSB1	IAGVYTVKST SGNTHLGGQD FDTNLLEHFK AEFKKKTGLD ISDDARALRR [ 250 ]
ScSSB2	IAGVYTVKST SGNTHLGGQD FDTNLLEHFK AEFKKKTGLD ISDDARALRR [ 250 ]
Tphsp70-3	MDSVFEVKAT GGDTHLGGED FDNSVMWKCL EQI-KAKNDV LQGNPRAQSR [ 250 ]
Othsp70-2	LQDVFEVLST AGDTHLGGED FDTALAAYAQ KEIEKQKGDI --GDAKSLRK [ 250 ]
Othsp70-4	IEEIFEVKAT AGDTHLGGED FDNRLLQHFI QEFKRKHKKD ITGNPKALRR [ 250 ]
EcoliDnaK	IDETFEVLAT NGDTHLGGED FDSRLINYLV EEFKKDQGID LRNDPLAMQR [ 250 ]
Orshsp70-9	ISNVFEVKAT NGDTFLGGED FDNTLLEFLV SEFKRSEAI LAKDRLALQR [ 250 ]
Orshsp70-11	ISNVFEVKAT NGDTFLGGED FDGALLDYLV SEFKKSDNID LSKDKLALQR [ 250 ]
Orshsp70-10	ISNVFEVKAT NGDTFLGGED FDNTLLEFLV SEFKRTEGID LSKDRLALQR [ 250 ]
Athsp70-10	IDNVFEVLST NGDTHLGGED FDHRVMEYFI KLIKHHQKD ISKDNKALGK [ 250 ]
Athsp70-9	ISNVFEVKAT NGDTFLGGED FDNALLDFLV NEFKTTEGID LAKDRLALQR [ 250 ]
Orshsp70-4	IEEIFEVKAT AGDTHLGGED FDNRMVNHFV LEFKRKNKKD ISGNPRALRR [ 250 ]
Crhsp70-2	IMGVFEVKAT NGDTFLGGED FDNTILNYLV GEFKKESGID LSKDRLAVQR [ 250 ]
Olhsp70-2	ISGVFEVKAT NGDTFLGGED FDTVLLDHFV DNFKKDQGID LKQDKLAVQR [ 250 ]
Othsp70-3	ISGVFEVKAT NGDTFLGGED FDTVLLDYFV DNFKKDQGID LKQDKLAVQR [ 250 ]
Tphsp70-2	ISGVFEVKAT NGNTMLGGED FDEELLEYLM KTFKKDSGID LSGDNLAMQR [ 250 ]
Cmhsp70-2	ISGVFEVKAT NGDTHLGGED FDNLVLLNHLV SEFKKDQGID LSRDRLALQR [ 250 ]
ScECM10	IDNIFEVKST NGDTHLGGED FDIYLLQEI SHFKKETGID LSNDRMAVQR [ 250 ]
ScSSC1	IDNVFEVKST NGDTHLGGED FDIYLLREIV SRFKTETGID LENDRMAIQR [ 250 ]
Orshsp70-8	VGDVFEVLST SGDTHLGGDD FDKRVVDWLA GNFKNDEGID LLKDKQALQR [ 250 ]
Orshsp70-7	VGDVFEVLST SGDTHLGGDD FDKKVVDWLA SNFKKDEGID LLKDKQALQR [ 250 ]

Athsp70-6	VGDVFEVLST	SGDTHLGGDD	FDKRVVDWLA	AEFKKDEGID	LLKDKQALQR	[ 250 ]
Athsp70-7	VGDVFEVLST	SGDTHLGGDD	FDKRVVDWLA	STFKKDEGID	LLKDKQALQR	[ 250 ]
Cchsp70-1	IGDIFEVLST	SGDTHLGGDD	FDKKIVDWLV	DEFKKSYNID	LSKDKQALQR	[ 250 ]
Cmhsp70-1	IGDVFEVLAT	SGDTHLGGDD	FDKKIVDWLI	DNWKRIEGID	LSKDKQALQR	[ 250 ]
Athsp70-8	ISSVFEVKAT	NGDTFLGGED	FDNTLLEYLV	NEFKRSNDNID	LTKDNLALQR	[ 250 ]
Crhsp70-1	VGDVFEVLST	SGDTHLGGDD	FDKRIVDFLA	DDFKKSEGID	LRKDRQALQR	[ 250 ]
Gthsp70-1	VGDVFEVLST	SGDTHLGGDD	FDRKIVEWLI	HEFSHDEGIN	LGKDRQALQR	[ 250 ]
Guthsp70-1	VGDVFEVLST	SGDTHLGGDD	FDDKIVQWLL	KEFETEHSIN	LKSDRQALQR	[ 250 ]
Olhsp70-1	VGDVFEVLST	SGDTHLGGDD	FDKRIVEWLA	GDFEKSEGID	LMSDKQALQR	[ 250 ]
Oshsp70-1	VGDIFEVLAT	AGDTNLGGDD	FDKVLVRWLW	KEFEDQEGID	LTQDIQALQR	[ 250 ]
Pfhsp70-1	IEDIFEVKAT	AGDTHLGGED	FDNRLVNFCV	EDFKRKNRKD	LSKNSRALRR	[ 250 ]
Phhsp70-1	VGDVFEVLST	SGDTHLGGDD	FDQQIVEWLI	KDFKQNEGID	LAKDRQALQR	[ 250 ]
Pophsp70-1	VGDVFEVLST	SGDTHLGGDD	FDQQIVEWLI	KDFKQSEGID	LGKDRQALQR	[ 250 ]
Poyhsp70-1	VGDVFEVLST	SGDTHLGGDD	FDQQIVEWLI	KDFKQNEGID	LGKDRQALQR	[ 250 ]
Pyhsp70-2	IEDIFEVKAT	AGDTHLGGED	FDNRLVNFCV	EDFKRKNRKD	LSKNSRALRR	[ 250 ]
SyDnaK1	LGNVFEVLST	SGNNHLGGDD	FDNCVVQWMA	ESFKQKENID	LSTDKMAIQR	[ 250 ]
SynDnaK2	VGEVFEVLAT	SGDTHLGGDD	FDKKIVDFLA	GEFQKAEGID	LRKDKQALQR	[ 250 ]
SynDnaK3	VGDIFEVKAT	SGDTQLGGND	FDERRIVDWLA	EKFLEAEKVD	LRQDRQALQR	[ 250 ]
Tphsp70-1	VGDIFEVLST	AGDTNLGGDD	FDKALVRWLW	EDFEAKEGTN	LTKDIQALQR	[ 250 ]
Athsp70-1	LRTSCERAKR	TLSSTAQTTI	EIDSPLYEGID	FYSTITRARF	EELNMDLFRK	[ 300 ]
Athsp70-2	LRTACERAKR	TLSSTAQTTI	EIDSPLYGGAD	FYSPITRARF	EEMNMDLFRK	[ 300 ]
Athsp70-3	LRTACERAKR	TLSSTAQTTI	EIDSLFDGID	FYAPITRARF	EELNIDLFRK	[ 300 ]
Athsp70-4	LRTACERAKR	TLSSTAQTTI	EIDSLFEGID	FYTTITRARF	EELNMDLFRK	[ 300 ]
Athsp70-5	LRTACERAKR	TLSSTAQTTI	EIDSLHEGID	FYATISRARF	EEMNMDLFRK	[ 300 ]
Orshsp70-5	LRTACERAKR	TLSSTAQTTI	EIDSPLYEGID	FYSTITRARF	EELNMDLFRK	[ 300 ]
Orshsp70-3	LRTACERAKR	TLSSTAQTTI	EIDSPLYEGID	FYTTITRARF	EELNMDLFRK	[ 300 ]
Orshsp70-6	LRTSCERAKR	TLSSTAQTTI	EIDSLFEGVD	FYSTITRARF	EELNMDLFRK	[ 300 ]
Orshsp70-1	LRTACERAKR	TLSSTAQTTI	EIDSPLYEGID	FYATITRARF	EELNMDLFRR	[ 300 ]
Crhsp70-3	LRTACERAKR	TLSAAQTTI	ELDSLFEVGD	FATSITRARF	EELCMDLFRK	[ 300 ]
Olhsp70-4	LRSACERAKR	TLSSTAQTSI	EIDSLFEGVD	FYTSITRARF	EELCMDLFRK	[ 300 ]
Othsp70-5	LTEASEKAKM	ELSSSTSSTSI	SLPFITATKH	IDTSLTRTF	EQLCDDLINR	[ 300 ]
Tphsp70-4	LRTACERAKR	TLSSTQAH	EIDSLFDGV	FNSTITRARF	EDLCMDYFKK	[ 300 ]
Pfhsp70-2	LRKEVEIAKR	NLSVVHSTQI	EIEDIVEGHN	FSETLTRAKF	EELNDDLFRE	[ 300 ]
ScSSA1	LRTACERAKR	TLSSSAQTSV	EIDSLFEGID	FYTSITRARF	EELCADLFRS	[ 300 ]
ScSSA2	LRTACERAKR	TLSSSAQTSV	EIDSLFEGID	FYTSITRARF	EELCADLFRS	[ 300 ]
ScSSA3	LRTAAERAKR	ALSSSSQTSI	EIDSLFEGMD	FYTSITRARF	EELCADLFRS	[ 300 ]
ScSSA4	LRTAAERAKR	TLSSSAQTSI	EIDSLFEGID	FYTSITRARF	EELCADLFRS	[ 300 ]
Cmhsp70-3	LRTACERAKR	TLSATQATI	EIDSLYNGID	FYSSITRARF	EELCGDLFRS	[ 300 ]
Pyhsp70-3	LREAAETAKI	ELSSKTQTEV	NLPFITANKH	LQIKLTRAKL	EELCHDLLKG	[ 300 ]
Athsp70-11	LRRECERAKR	ALSSQHQVRV	EIESLFDGVD	LSEPLTRARF	EELNNNDLFRK	[ 300 ]
Athsp70-12	LRRECELAKR	SLSNQHQVRV	EIESLFDGVD	FSEPLTRARF	EELNMDLFKK	[ 300 ]
Athsp70-13	LRTACERAKR	TLSSTAQTTV	EVDSLFEgid	FYSPITRAKF	EEMNMDLFRK	[ 300 ]
Crhsp70-4	LRREAERAKR	ALSSQHQVRV	EIEALYEGID	LSEPLTRARF	EELNMDLFKK	[ 300 ]
Crhsp70-5	LRREAERAKR	ALSSQHQVRV	EIEALYEGID	LSEPLTRARF	EELNMDLFKK	[ 300 ]
Olhsp70-3	LRREAERAKR	TLSNQHQVRV	EIEALFDGID	FSEPLTRARF	EELNNDLFRK	[ 300 ]
Othsp70-1	LRREAERAKR	TLSNQHQVRV	EIEALFDGMD	FSEPLTRARF	EELNNDLFRK	[ 300 ]
ScKAR2	LKREAEKAKR	ALSSQMSTRI	EIDSFVDGID	LSETLTRAKF	EELNLDLFKK	[ 300 ]

Orshsp70-15	LRRECERAKR	ALSNQHQVRV	EVESLFDGVD	LSEPLSRARF	EELNSDLFKK	[ 300 ]
Orshsp70-16	LRRECERAKR	ALSNQHQVRV	EIESLFDGVD	FSEPLSRARF	EELNGDLFKK	[ 300 ]
Orshsp70-14	LRRECERAKR	ALSIQHQVRV	EVESLFDGVD	LSEPLSRARF	EELNNNDLFRK	[ 300 ]
Orshsp70-13	LRRECERAKR	ALSRQHQVRV	EIEALFGVD	FSETLTRAKF	EELNMDLFKK	[ 300 ]
Orshsp70-12	LRREAERAKR	ALSNQHQVRV	EIESLFDGTD	FSEPLTRARF	EELNNDLFRK	[ 300 ]
Cmhsp70-4	LRREVEKAKR	ALSYQTQVRI	EIESIMDGKD	LIEELTRARF	ENLNMDLFRK	[ 300 ]
Orshsp70-2	LRTACERAKR	TLSSTAQTTI	EIDSLYEGID	FYTTSITRARF	EELNMDLFRK	[ 300 ]
Tphsp70-5	LRKEVERVKR	ALSSQQQARL	EIEDLAEGLD	FSETLTRAKF	EELNNDLFKK	[ 300 ]
Olhsp70-5	LRTACEKAKR	ELS--VANHA	NIECFIGEIE	INMKITREQF	EKVCEPTFQR	[ 300 ]
Pfhsp70-3	LREAAETAKI	ELSSKTQTEI	NLPFITANKH	LQIKLTRAKL	EELCHDLLKG	[ 300 ]
Pyhsp70-1	LRKEVEIAKR	NLSVVHSTQI	EIEDIIEGHN	FSETLTRAKF	EELNDDLFRE	[ 300 ]
ScSSB1	LRTAAERAKR	TLSSVTQTTV	EVDSLFDGED	FESSLTRAHF	EDLNAALFKS	[ 300 ]
ScSSB2	LRTAAERAKR	TLSSVTQTTV	EVDSLFDGED	FESSLTRAHF	EDLNAALFKS	[ 300 ]
Tphsp70-3	LRRAVENAKR	TLSSSMSTEI	EVDSLVGDFD	FTVTLDRAKF	EELNAVLFKR	[ 300 ]
Othsp70-2	LRTACEKAKR	ELS--VANHA	NIECFIGEHE	INLKVSREF	NKVNEPTFQR	[ 300 ]
Othsp70-4	LRTACERAKR	TLSSTAQTSV	EIDSLFEGVD	FYTSITRARF	EELCMDLFRK	[ 300 ]
EcoliDnaK	LKEAAEKAKI	ELSSAQQTDV	NLPYITADKH	MNIKVTRAKL	ESLVEDLVNR	[ 300 ]
Orshsp70-9	LREAAEKAKI	ELSSTAQTEI	NLPFITADKH	LNITLRSKF	ESLVNSLIER	[ 300 ]
Orshsp70-11	LREAAEKAKV	ELSSTMQTEI	NLPFITADKH	FNITLRSKF	ESLVQSLIER	[ 300 ]
Orshsp70-10	LREAAEKAKI	ELSSTAQTEI	NLPFITADKH	LNITLRSKF	ESLVNSLIER	[ 300 ]
Athsp70-10	LRRECERAKR	ALSNQHQVRV	EIESLFDGVD	FSEPLTRARF	EELNNDLFRK	[ 300 ]
Athsp70-9	LREAAEKAKI	ELSSTSQTEI	NLPFITADKH	FNITLRSRF	ETLVNHLIER	[ 300 ]
Orshsp70-4	LRTACERAKR	TLSSTAQTTI	EIDSLYEGID	FYTSITRARF	EELNMDLFRK	[ 300 ]
Crhsp70-2	LRELEASEKAKC	ELSSTTSTDI	NLPFITADKH	LNMQLTRAKL	ELLVKELLER	[ 300 ]
Olhsp70-2	LREAAEKAKI	ELSSAQSTDI	NLPFITADKH	MAMTLSRAKL	EELVGSLIER	[ 300 ]
Othsp70-3	LREAAEKAKI	ELSSAASTDI	NLPFITADKH	MALQLTRAKL	EELVGGLLER	[ 300 ]
Tphsp70-2	LREAAEKAKR	ELDGGLAQTDV	SLPFITADKH	LNIKITKAQF	ENMVSELVQK	[ 300 ]
Cmhsp70-2	LREAAEKAKV	ELSSTMQTEI	NLPFITADKH	MNMKLTRAKF	ESLDHVQQR	[ 300 ]
ScECM10	IREAAEKAKI	ELSSTLSTEI	NLPFITADKH	IRMPFSRVQL	ENITAPLIDR	[ 300 ]
ScSSC1	IREAAEKAKI	ELSSTVSTEI	NLPFITADKH	INMKFSRAQF	ETLTAPLVKR	[ 300 ]
Orshsp70-8	LTEAAEKAKM	ELSSLTQTNI	SLPFITATKH	IETTLTRAKF	EELCSDLLDR	[ 300 ]
Orshsp70-7	LTEAAEKAKM	ELSTLSQTNI	SLPFITATKH	IETTLSRAKF	EELCSIDLDR	[ 300 ]
Athsp70-6	LTEAAEKAKI	ELSSLTQTNM	SLPFITATKH	IETTLTRAKF	EELCSDLLDR	[ 300 ]
Athsp70-7	LTEAAEKAKI	ELSSLTQTNM	SLPFITATKH	IETTLTRGKF	EELCSDLLDR	[ 300 ]
Cchsp70-1	LTEAAEKAKI	ELSSVSQTEI	NLPFITATIH	FDKSLNRAKF	EELVSELIAR	[ 300 ]
Cmhsp70-1	LTEAAEKAKI	ELSNVTQTDI	NLPFITATKH	LDQTLTRAQF	EQLTSDLIER	[ 300 ]
Athsp70-8	LREAAEKAKI	ELSSTTQTEI	NLPFITADKH	LNITLRSKF	EGLVGKLER	[ 300 ]
Crhsp70-1	LTEAAEKAKI	ELSGMAQTSI	NLPFITATKH	IDTQLTRAKF	EEMCNDLLER	[ 300 ]
Gthsp70-1	LTEAAEKAKM	ELSSLAQTDI	NLPFITSTKH	LEKNITRAKF	EYLCQDLINR	[ 300 ]
Guthsp70-1	LTEASEKAKI	ELSNLSQTEI	NLPFLTATKH	LERSITRAKF	EELCSIDLINR	[ 300 ]
Olhsp70-1	LTEAAEKAKM	ELSTTSSTSI	SLPFITATKH	IDTSLTRPKF	EQLCDDLINR	[ 300 ]
Oshsp70-1	LTEAAEKAKM	ELSTVEKTTI	HLPFITADKH	IEKELTRKTF	ETLCQELIER	[ 300 ]
Pfhsp70-1	LRTQCERAKR	TLSSSTQATI	EIDSLFEGID	YSVTVSRARF	EELCIDYFRD	[ 300 ]
Phhsp70-1	LTEAAEKAKI	ELSNLTQTEI	NLPFITATKH	LEKTVTRGKF	EELCSNLIDK	[ 300 ]
Pophsp70-1	LTEASEKAKI	ELSNLTQTEI	NLPFITATKH	LEKTVTRAKF	EELCSRLIDK	[ 300 ]
Poyhsp70-1	LTEAAEKAKI	ELSNLTQTEI	NLPFITATKH	LEKTVTRGKF	EELCSNLIDK	[ 300 ]
Pyhsp70-2	LRTQCERAKR	TLSSSTQATI	EIDSLFEGID	YSVTVSRARF	EELCIDYFRD	[ 300 ]
SyDnaK1	LREAAEKAKI	ELSSMLNTTI	NLPFITADKH	LEMELARSQF	EELTKQLED	[ 300 ]

SynDnaK2	LTEAAEKAKI	ELSGVSOTEI	NLPFITATKH	LDTTLSRAKF	EEICSDLIDR	[ 300 ]
SynDnaK3	LTEAAEKAKI	ELSGVGTTEI	NLPFITATKH	LETQLSRSEF	EDLCGDLVTR	[ 300 ]
Tphsp70-1	LTEAAEKAKM	ELSNVEKTTI	NLPFITADKH	IQQELTREKF	ESLCQDLINR	[ 300 ]
Athsp70-1	CMEPVEKCLR	DAKMDKSTVH	DVVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Athsp70-2	CMEPVEKCLR	DAKMDKSTVH	EIVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Athsp70-3	CMEPVEKCLR	DAKMDKNSID	DVVLVGGSTR	IPKVQQLLVD	FFNKELCKSI	[ 350 ]
Athsp70-4	CMEPVEKCLR	DAKMDKSSVH	DVVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Athsp70-5	CMDPVEVKVLK	DAKLDKSSVH	DVVLVGGSTR	IPKIQQLLQD	FFNKELCKSI	[ 350 ]
Orshsp70-5	CMEPVEKCLR	DAKMDKSSVH	DVVLVGGSTR	IPRVQQLLQD	FFNKELCKNI	[ 350 ]
Orshsp70-3	CMEPVEKCLR	DAKMDKSSVH	DVVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Orshsp70-6	CMEPVEKCLR	DAKMDKSTVH	DVVLVGGSTR	IPRVQQLLQD	FFNKELCKSI	[ 350 ]
Orshsp70-1	CMEPVEKCLR	DAKMDKAQIH	DVVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Crhsp70-3	CMDPVEKCLR	DAKMDKMTVH	DVVLVGGSTR	IPKVQQLLQD	FFNKELNPKSI	[ 350 ]
Olhsp70-4	CMDPVEKTLR	DAKMDKSQVH	EVVLVGGSTR	IPKVQQLLSD	FFNKDLCKSI	[ 350 ]
Othsp70-5	CKVPVEQALK	DAKLSLSDVD	EIVLVGGSTR	IPAVRELVKK	LTSKDPNMSV	[ 350 ]
Tphsp70-4	CMDPCEKVLR	DAKIAKNQVD	EVVLVGGSTR	IPKIQSMLAE	FFNKEPNKGI	[ 350 ]
Pfhsp70-2	TLEPVKKVLD	DAKYEKSKID	EIVLVGGSTR	IPKIQIIKE	FFNKEPNRGI	[ 350 ]
ScSSA1	TLDPVEKVLR	DAKLDKSQVD	EIVLVGGSTR	IPKVQKLVTD	YFNKEPNRSI	[ 350 ]
ScSSA2	TLDPVEKVLR	DAKLDKSQVD	EIVLVGGSTR	IPKVQKLVTD	YFNKEPNRSI	[ 350 ]
ScSSA3	TLEPVKEVKLK	DSKLDKSQID	EIVLVGGSTR	IPKIQKLVSD	FFNKEPNRSI	[ 350 ]
ScSSA4	TLEPVKEVLA	DSKLDKSQID	EIVLVGGSTR	IPKVQKLVSD	FFNKEPNRSI	[ 350 ]
Cmhsp70-3	TLDPVERVLK	DANLSKSQVD	DVVLVGGSTR	IPKIQQLLSQ	FFNKELCKSI	[ 350 ]
Pyhsp70-3	TIEPCEKCIK	DANIKKDEIN	EIIILVGGMTR	MPKVSDTVKE	IFQNNSPSKSV	[ 350 ]
Athsp70-11	TMGPVKKAMD	DAGLQKSQID	EIVLVGGSTR	IPKVQQLLKD	FFEKEPNKGV	[ 350 ]
Athsp70-12	TMEPVKKALK	DAGLKKSDID	EIVLVGGSTR	IPKVQQLKD	FFDKEP SKGT	[ 350 ]
Athsp70-13	CMEPVMKCLR	DSKMDKSMVH	DVVLVGGSTR	IPKVQQLLQD	FFNKELCKSI	[ 350 ]
Crhsp70-4	TMGPVKKAMD	DANLKKTEID	EIVLVGGSTR	IPKVQDLLRE	WFGKEPNKGV	[ 350 ]
Crhsp70-5	TMGPVKKAMD	DANLKKTEID	EIVLVGGSTR	IPKVQDLLRE	WFDKEPNKGV	[ 350 ]
Olhsp70-3	TMGPVKKAMD	DAGMKKSEID	EIVLVGGSTR	IPKVQDLLRD	FFDKEPNRGV	[ 350 ]
Othsp70-1	TMGPVKKAMD	DAGMKKSEID	EIVLVGGSTR	IPKVQDLLRD	FFDKEPNKGV	[ 350 ]
SckAR2	TLKPVEKVLQ	DSGLEKKDVD	DIVLVGGSTR	IPKVQQLLES	YFDKKASKGI	[ 350 ]
Orshsp70-15	TMVPVRKAMA	DARLSKGID	EIVLVGGSTR	IPKVQQLLKD	YFGKEPNRGV	[ 350 ]
Orshsp70-16	TMVPVRKAMA	DAGLGKGID	EIVLVGGSTR	IPKVQQLLKD	YFGKEPNRGV	[ 350 ]
Orshsp70-14	TMAPVRKAMA	DARLSNADID	EIVLVGGSTR	IPKVRQLLRD	YFGKQPNQGV	[ 350 ]
Orshsp70-13	TLGPVRKAIA	DAKLKKSDID	EIVLVGGSTR	IPKVQELLKE	MFDKEPTKGI	[ 350 ]
Orshsp70-12	TMGPVKKAMD	DAGLEKSQIH	EIVLVGGSTR	IPKVQQLLRD	YFEKEPNKGV	[ 350 ]
Cmhsp70-4	TLKPVEIVLK	DAKKEKKDID	EIVLVGGSTR	IPKIQELITE	FFDKQPSKGI	[ 350 ]
Orshsp70-2	CMEPVEKCLR	DAKMDKSTVH	DVVLVGGSTR	IPRVQQLLQD	FFNKELCKSI	[ 350 ]
Tphsp70-5	TLGPVGRLVLE	DADVSKSEVD	EIVLVGGSTR	IPKVQLISE	FFGKEPSKGI	[ 350 ]
Olhsp70-5	CLDSVKRVL	DAGKKKEEV	EIVLVGGSTR	VPRVQGILTE	YFDKTLNPKSV	[ 350 ]
Pfhsp70-3	TIEPCEKCIK	DADVKKEEIN	EIIILVGGMTR	MPKVTDTVKQ	IFQNNSPSKGV	[ 350 ]
Pyhsp70-1	TLEPVKKVLD	DAKYEKSKID	EIVLVGGSTR	IPKIQIIKD	FFNKEPNRGI	[ 350 ]
ScSSB1	TLEPVQEVLK	DAKISKSQID	EVVLVGGSTR	IPKVQKLLSD	FFDKQLEKSI	[ 350 ]
ScSSB2	TLEPVQEVLK	DAKISKSQID	EVVLVGGSTR	IPKVQKLLSD	FFDKQLEKSI	[ 350 ]
Tphsp70-3	CIDTVNEVLN	DAGCSQDEVT	DLVLVGGSTR	IPSLQTSLYD	MFGIELCKSV	[ 350 ]
Othsp70-2	CMDAVKRVL	DASRKKEEVN	EIVLVGGSTR	VPRVQEILTE	YFDKPLNPKSV	[ 350 ]
Othsp70-4	CMDPVEKCLR	DSKMDKSSVH	EVVLVGGSTR	IPKVQQLLSD	FFNKELCKSI	[ 350 ]

EcoliDnaK	SIEPLKVALQ DAGLSVSDID DVILVGGQTR MPMVQKKVAE FFGKEPRKDV	[ 350 ]
Orshsp70-9	TREPCKNCLK DAGITTKEVD EVLLVGGMTR VPKVQEIVSE IFGKSPSKGV	[ 350 ]
Orshsp70-11	TRIPCVNCLK DAGVSAKDID EVLLVGGMTR VPKVQDIVSQ IFNKTPSKGV	[ 350 ]
Orshsp70-10	TRDPCKSCLK DAGITTKDVD EVLLVGGMTR VPKVQEVVSE IFGKAPSKGV	[ 350 ]
Athsp70-10	TMGPVKKAMD DAGLQKSQID EIVLVGGSTR IPKVQQLLK FFEKEPNKGKV	[ 350 ]
Athsp70-9	TRDPCKNCLK DAGISAKEVD EVLLVGGMTR VPKVQSIVAE IFGKSPSKGV	[ 350 ]
Orshsp70-4	CMEPVEKCLR DAKMDKSSVH DVVLVGGSTR IPKVQQLLQD FFNLCKSI	[ 350 ]
Crhsp70-2	TKQPCLOAMK DAGVQPKDIO EVLLVGGMTR MPKVNEIVKE VFQRDPSKGKV	[ 350 ]
Olhsp70-2	TKQPCKNCLK DAGVSTGEIS EVLLVGGMSR MPKVQGIVKD LFGRDPSKGKV	[ 350 ]
Othsp70-3	TKQPCKNCLK DAGVSTSEIS EVLLVGGMSR MPKVQQIVKD LFGREPSKGKV	[ 350 ]
Tphsp70-2	TVDPCKQCMK DADVSKAIEH EVILVGGMTR MPKVQETVEN FFGKKPSRGV	[ 350 ]
Cmhsp70-2	TLEPMKLCLK DAGMSAKDIS DVLLVGGMTR VPAVQRLVQD FFGRAPNKS	[ 350 ]
ScECM10	TVDPVKKALK DARITASDIS DVLLVGGMSR MPKVADTVKK LFGKDASKAV	[ 350 ]
SSSC1	TVDPVKKALK DAGLSTS DIS DVLLVGGMSR MPKVVETVKS LFGKDPSKAV	[ 350 ]
Orshsp70-8	LRTPVDNALR DAKLSFKDID EVILVGGSTR IPAVQDLVKK MTGKDPNVT	[ 350 ]
Orshsp70-7	LKTPVTNALR DAKLSVDNLD EVILVGGSTR IPSVQELVKK ITGKDPNVT	[ 350 ]
Athsp70-6	VRTPVENSLR DAKLSFKDID EVILVGGSTR IPAVQELVRK VTGKEPNVT	[ 350 ]
Athsp70-7	VRTPVENSLR DAKLSFKDID EVILVGGSTR IPAVQDLVRK LTGKEPNVS	[ 350 ]
Cchsp70-1	CKIPVENALK DAKLNKSDIN EIVLVGGSTR IPAIQNLVKE SLQKDPNQTV	[ 350 ]
Cmhsp70-1	CRKPVEQALT DAKLSKQDID EVVLVGGSTR IPAVQQLVKD LLGKDPNQSV	[ 350 ]
Athsp70-8	TRSPCQNCLK DAGVTIKEVD EVLLVGGMTR VPKVQEIVSE IFGKSPCKGV	[ 350 ]
Crhsp70-1	CKVPVQQALR DAKLSISDIQ EVILVGGSTR IPAVQEIVRK LSGKDPNVT	[ 350 ]
Gthsp70-1	CEIPVNNALK DAQLSSGNID EIVLVGGSTR IPAIQQLVKK MIGKDPNQSV	[ 350 ]
Guthsp70-1	VKIPVENALK DAKLDSSKID EVVLVGGSTR IPAIQELVKK ILNKTPNQTV	[ 350 ]
Olhsp70-1	CKVPVQQALK DAKLSSLAEVD EVILVGGSTR IPAIRELVKS LTKKEPNMS	[ 350 ]
Oshsp70-1	CQIPVEKALT DARLEKSDIN EVVLVGGSTR IPAIQNLVES LTNKKPNQSV	[ 350 ]
Pfhsp70-1	TLIPVEKVLK DAMMDKKS VH EVVLVGGSTR IPKIQTLIKE FFNKEACRS	[ 350 ]
Phhsp70-1	CSIPVNNALK DAKLEASSID EVVLVGGSTR IPAIQQMVKR LIGKDPNQSV	[ 350 ]
Pophsp70-1	CSIPVNNALK DAKLEASSID EVVLVGGSTR IPAIQQMVKR LIGKDPNQSV	[ 350 ]
Poyhsp70-1	CSIPVNNALK DAKLEASSID EVVLVGGSTR IPAIQQMVKR LIGKDPNQSV	[ 350 ]
Pyhsp70-2	TLIPVEKVLK DAMMDKKS VH EVVLVGGSTR IPKIQTLIKE FFNKEACRS	[ 350 ]
SyDnaK1	TRVPLTQALD DGEIRASDH RVILVGGSTR IPAIQRVIQE FFPSQLERS	[ 350 ]
SynDnaK2	CGIPVNAIR DAKIDKSALD EIVLVGGSTR IPAVQEVVKK ILGKDPNQGV	[ 350 ]
SynDnaK3	LQRPVKRVLK DAGLSPVQID EVVLVGGTR MPMVKGLVRS FIDREPNE	[ 350 ]
Tphsp70-1	CRIPVEKALK DAKLDQSGIN EVVLVGGSTR IPAIQQLVES LTGKKPNKS	[ 350 ]
Athsp70-1	NPDEAVAYGA AVQGAILSGD LLLLLDVTPLS LGLETAGGVM TTLIPRNTT	[ 400 ]
Athsp70-2	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TTLIPRNTT	[ 400 ]
Athsp70-3	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIQRNTT	[ 400 ]
Athsp70-4	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Athsp70-5	NPDEAVAYGA AVQAAILTG D LLLLLDVAPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Orshsp70-5	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Orshsp70-3	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Orshsp70-6	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Orshsp70-1	NPDEAVAYGA AVQAAILSGD LLLLLDVTPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Crhsp70-3	NPDEAVAYGA AVQAAILTG D LLLLLDVAPLS LGLETAGGVM TVLIIPRNTT	[ 400 ]
Olhsp70-4	NPDEAVAYGA AVQAAILSGD LLLLLDVAPLS MGLETVGGM TVLIIPRNTT	[ 400 ]
Othsp70-5	NPDEVVALGA AVQAGVLAGD IVLLDVTPLS LGLETLGGM TKLIPRNTT	[ 400 ]

Tphsp70-4	NPDEAVAYGA TVQAAILSGE LLLLLVTPLS LGLETAGGVM TTLIKRNTTV [ 400 ]
Pfhsp70-2	NPDEAVAYGA AIQAGIILGD VVLLDVTPLT LGIETGGIM TQLIKRNTVI [ 400 ]
ScSSA1	NPDEAVAYGA AVQAAILTGD LLLLLVAPLS LGIETAGGVM TKLIPRNSTI [ 400 ]
ScSSA2	NPDEAVAYGA AVQAAILTGD LLLLLVAPLS LGIETAGGVM TKLIPRNSTI [ 400 ]
ScSSA3	NPDEAVAYGA AVQAAILTGD LLLLLVAPLS LGIETAGGIM TKLIPRNSTI [ 400 ]
ScSSA4	NPDEAVAYGA AVQAAILTGD LLLLLVAPLS LGIETAGGIM TKLIPRNSTI [ 400 ]
Cmhsp70-3	NPDEAVAYGA AVQAAILSGD ILLLDVTPLS LGIETAGGVM TVLIPRNSTI [ 400 ]
Pyhsp70-3	NPDEAVALGA AIQGGVLKGD LLLLLVIPLS LGIETLGGVF TKLINRNTTI [ 400 ]
Athsp70-11	NPDEAVAYGA AVQGGILSGD ILLLDVAPLT LGIETVGGVM TKLIPRNSTI [ 400 ]
Athsp70-12	NPDEAVAYGA AVQGGVLSGD ILLLDVAPLS LGIETVGGVM TNIIIPRNSTI [ 400 ]
Athsp70-13	NPDEAVAYGA AVQAAILSGD LLLLLVTPLS LGIETIGGVM TTLIQRNTTI [ 400 ]
Crhsp70-4	NPDEAVAYGA AVQGAILSGG LIVIDRTPLS LGIETTGGVM TNLIPRNSVI [ 400 ]
Crhsp70-5	NPDEAVAYGA AVQGGILGGD ILLLDVAPLS LGIETVGGVM TKLIPRNSTI [ 400 ]
Olhsp70-3	NPDEAVAYGA AVQGGILSGD ILLLDVAPLT QGIETVGGVM TKLIPRNSTI [ 400 ]
Othsp70-1	NPDEAVAYGA AVQGGILSGD ILLLDVAPLT QGIETVGGVM TKLIPRNSTI [ 400 ]
ScKAR2	NPDEAVAYGA AVQAGVLSGD IVLLDVNALT LGIETTGGVM TPLIKRNTAI [ 400 ]
Orshsp70-15	NPDEAVAYGA AVQASIISGS MILLDVAPLT LGLETAGGVM AKLIPRNTVV [ 400 ]
Orshsp70-16	NPDEAVAYGA AVQASIISGS MILLDVAPLT LGLETAGGVM TKLIPRNTVV [ 400 ]
Orshsp70-14	NPDEAVAYGA AIQANIVGGD MVVLDVTPLT LGLETAGGVM ATLIPRNTPV [ 400 ]
Orshsp70-13	NPDEAVAYGA AVQGSIISGD ILLLDVTPLT LGIETAGGVM TKLIPRNTRI [ 400 ]
Orshsp70-12	NPDEAVAYGA AVQGSILSGD ILLLDVAPLT LGIETVGGVM TKLIPRNSTI [ 400 ]
Cmhsp70-4	NPDEAVAYGA AVQGAILSGD ILLLDVTPLS LGIETVGGVM TKIINRGTTI [ 400 ]
Orshsp70-2	NPDEAVAYGA AVQAAILTGD LLLLLVTPLS QGLETAGGVM TVLIPRNNTI [ 400 ]
Tphsp70-5	NPDEAVAYGA AVQGGILSGE ILLLDVTPLS QGIETVGGVM TKLINRGTTI [ 400 ]
Olhsp70-5	HPDEAVAYGA AVQGAILAGR VLLMDVVPLS LGVECEGRQF AKVVQRNTAI [ 400 ]
Pfhsp70-3	NPDEAVALGA AIQGGVLKGD LLLLLVIPLS LGIETLGGVF TKLINRNTTI [ 400 ]
Pyhsp70-1	NPDEAVAYGA AIQAGIILGD VVLLDVTPLT LGIETVGGIM TQLIKRNTVI [ 400 ]
ScSSB1	NPDEAVAYGA AVQGAILTGD LLLLLVAPLS LGVGMQGDMF GIVVPRNTTV [ 400 ]
ScSSB2	NPDEAVAYGA AVQGAILTGD LLLLLVAPLS LGVGMQGdif GIVVPRNTTV [ 400 ]
Tphsp70-3	HPDEAVAHGA AVQGHILATD LLLLLVTPLS LGIELEGKQM STLICKNTAI [ 400 ]
Othsp70-2	HPDEAVAYGA AVQGAILAGR VLLMDVVPLS LGVECEGRQF AKVVPRNTSI [ 400 ]
Othsp70-4	NPDEAVAYGA AVQAAILSGD LLLLLVSPLS MGLETVGGVM TVLIPRNNTI [ 400 ]
EcoliDnaK	NPDEAVAIGA AVQGGVLTGD VLLLLVTPLS LGIETMGGVM TTLIAKNTTI [ 400 ]
Orshsp70-9	NPDEAVAMGA AIQGGILRGE LLLLLVTPLS LGIETLGGIF TRLINRNTTI [ 400 ]
Orshsp70-11	NPDEAVAMGA AIQGGILRGE LLLLLVTPLS LGIETLGGIF TRLINRNTTI [ 400 ]
Orshsp70-10	NPDEAVAMGA AIQGGILRGD LLLLLVTPLS LGIETLGGIF TRLINRNTTV [ 400 ]
Athsp70-10	NPDEAVAYGA AVQGGILSGD ILLLDVAPLT LGIETVGGVM TKLIPRNSTI [ 400 ]
Athsp70-9	NPDEAVAMGA ALQGGILRGE LLLLLVTPLS LGIETLGGVF TRLITRNTTI [ 400 ]
Orshsp70-4	NPDEAVAYGA AVQAAILSGD LLLLLVTPLS LGLETAGGVM TVLIPRNNTI [ 400 ]
Crhsp70-2	NPDEVVAMGA AIQGGVLRGD ILLLDVTPLS LGIETLGGVF TRMINRNTTI [ 400 ]
Olhsp70-2	NPDEVVAMGA AIQGGVLRGD ILLLDVTPLS LGIETLGGVF TRLISRNTTI [ 400 ]
Othsp70-3	NPDEVVAMGA AIQGGVLRGD ILLLDVTPLS LGIETLGGVF TRLISRNTTI [ 400 ]
Tphsp70-2	NPDEVVAMGA AIQGGVLKGD ILLLDVTPLS LGIETLGGVM TKLIPRNNTI [ 400 ]
Cmhsp70-2	NPDEVVAMGA AIQGGVLRGD ILLLDVTPLS LGIETLGGVF TKLIPRNSTI [ 400 ]
ScSCECM10	NPDEAVALGA AIQAAVLSGD VLLLLVTPLS LGIETLGGVF TKLIPRNSTI [ 400 ]
ScSSC1	NPDEAVAIGA AVQGAVLSGD VLLLLVTPLS LGIETLGGVF TRLIPRNNTI [ 400 ]
Orshsp70-8	NPDEVVALGA AVQAGVLSGD IVLLDVTPPLS LGLETLGGVM TKIIPRNNTL [ 400 ]
Orshsp70-7	NPDEVVSLGA AVQGGVLAGD VVLLDVTPLS LGLETLGGVM TKIIPRNNTL [ 400 ]

Athsp70-6	NPDEVVALGA	AVQAGVLAGD	IVLLDVTPLS	IGLETLGGM	TKIIPRNTTL	[ 400 ]
Athsp70-7	NPDEVVALGA	AVQAGVLSGD	IVLLDVTPLS	LGLETLGGM	TKIIPRNTTL	[ 400 ]
Cchsp70-1	NPDEVVAVGA	AIQAGVLAGD	ILLL DV CPLS	LGVETLGGM	TKMIPKNTTI	[ 400 ]
Cmhsp70-1	NPDEVVAIGA	AIQAGVLAGN	ILLL DV CPLS	LGVETLGGM	TKMIPRNTTI	[ 400 ]
Athsp70-8	NPDEAVAMGA	AIQGGILRGD	LLLL DV VPLS	LGIETLGAVF	TKLIPRNTTI	[ 400 ]
Crhsp70-1	NPDEVVALGA	AVQAGVLAGD	IVLLDVTPLS	LGLETLGGM	TKLIPRNTTL	[ 400 ]
Gthsp70-1	NPDEVVAIGA	AVQAGVLAGD	ILLL DV TPLS	LGVETLGGM	TKIIDRNNTV	[ 400 ]
Guthsp70-1	NPDEVVAIGA	AVQAGVLAGD	ILLL DV TPLS	LGVETLGGM	TRIIPRNTTI	[ 400 ]
Olhsp70-1	NPDEVVALGA	AVQAGVLAGD	IVLLDVTPLS	LGLETLGGM	TKLIPRNTTL	[ 400 ]
Oshsp70-1	NPDEVVAIGA	AIQAGILAGD	VLLL DV TPLS	LGVETLGGM	TKIIPRNTTI	[ 400 ]
Pfhsp70-1	NPDEAVAYGA	AVQAAILSGD	LLLL DV CSLS	LGLETAGGVM	TKLIERNTTI	[ 400 ]
Phhsp70-1	NPDEVVAIGA	AVQAGVLAGD	ILLL DV TPLS	LGVETLGGM	TKIIPRNTTI	[ 400 ]
Pophsp70-1	NPDEVVAIGA	AVQAGVLAGD	ILLL DV TPLS	LGVETLGGM	TKIIPRNTTI	[ 400 ]
Poyhsp70-1	NPDEVVAIGA	AVQAGVLAGD	ILLL DV TPLS	LGVETLGGM	TKIIPRNTTI	[ 400 ]
Pyhsp70-2	NPDEAVAYGA	AVQAAILSGD	LLLL DV CSLS	LGLETAGGVM	TKLIERNTTI	[ 400 ]
SyDnaK1	NPDEAVALGA	AIQAGVIGGD	VLLL DV TPLS	LGLETLGEV	TKIIPRNTTI	[ 400 ]
SynDnaK2	NPDEVVAVGA	AIQGGVLSGD	ILLL DV SPLS	LGVETLGGM	TKIIPRNTTI	[ 400 ]
SynDnaK3	NPDEVVAIGA	AIQAGILDGD	ILLL DV TPLS	FGLETIGGVM	KKLLPRNTTI	[ 400 ]
Tphsp70-1	NPDEVVAIGA	AIQAGILAGD	ILLL DV TPLS	LGVETVGGM	TKLISRNTTI	[ 400 ]
Athsp70-1	PTKKEQVFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Athsp70-2	PTKKEQVFST	YSDNQPGVLI	QVFEGERART	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Athsp70-3	PTKKEQVFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Athsp70-4	PTKKEQIFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Athsp70-5	PCKKEQVFST	YADNQPGVLI	QVYEGERART	RDNNLLGTFE	LKGIPPAPRG	[ 450 ]
Orshsp70-5	PTKKEQVFST	YSDNQPGVLI	QVYEGERTRT	RDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Orshsp70-3	PTKKEQVFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Orshsp70-6	PTKKEQVFST	YSDNQPGVLI	QVYEGERTRT	RDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Orshsp70-1	PTKKEQVFST	YSDNQPGVLI	QVYEGERTRT	KDNNLLGKFE	LTGIPPAPRG	[ 450 ]
Crhsp70-3	PTKKEQVFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LTGIPPAPRG	[ 450 ]
Olhsp70-4	PTKKEQVFST	YSDNQPGVLI	QVFEGERSRT	RDNHLLGKFE	LSGIPPAPRG	[ 450 ]
Othsp70-5	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	KDNKSLGTFR	LDGIPSAP--	[ 450 ]
Tphsp70-4	PAKKTQTFST	YADNQPGVLI	QVFEGERSMT	RDNNLLGKFN	LDGIPPMPRG	[ 450 ]
Pfhsp70-2	PTKKSQTFST	YQDNQPAVLI	QVFEGERALT	KDNHLLGKFE	LSGIPPAQRG	[ 450 ]
ScSSA1	PTKKSEIFST	YADNQPGVLI	QVFEGERAKT	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
ScSSA2	PTKKSEVFST	YADNQPGVLI	QVFEGERAKT	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
ScSSA3	PTKKSETFST	YADNQPGVLI	QVFEGERTRT	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
ScSSA4	PTKKSEVFST	YADNQPGVLI	QVFEGERTRT	KDNNLLGKFE	LSGIPPAPRG	[ 450 ]
Cmhsp70-3	PTKKSQIFTT	YADNQPAVTI	QVYEGERAMT	KDNHLLGQFT	LTGIPPAPRG	[ 450 ]
Pyhsp70-3	PTKKSQVFST	AADNQTQVSI	KVFQGEREMA	CDNKMLGSFD	LVGIPPAPRG	[ 450 ]
Athsp70-11	PTKKSQVFST	YQDQQTTVSI	QVFEGERSLT	KDCRLLGKFD	LTGVPPAPRG	[ 450 ]
Athsp70-12	PTKKSQVFST	YQDQQTTVTI	NVYEGERSMT	KDNRELGKFD	LTGILPAPRG	[ 450 ]
Athsp70-13	PAKKEQEFTT	TVDNQPDVLI	QVYEGERART	IDNNILGQFV	LSGIPPAPRG	[ 450 ]
Crhsp70-4	PTKKSQTFST	AADNQPTVSI	QVYEGERALT	KDNHKLGQFD	LNGIPPAPRG	[ 450 ]
Crhsp70-5	PTKKSQTFST	YQDQQTTVSI	QVYEGERAMT	KDNHKLGQFD	LNGIPPAPRG	[ 450 ]
Olhsp70-3	PTKKSQTFST	YQDNQQTVMI	QVFEGERAMT	KDNHLLGKFE	LTSIPPAPRG	[ 450 ]
Othsp70-1	PTKKSQTFST	YQDNQQTVMI	QVFEGERAMT	KDNHLLGKFE	LTSIPPAPRG	[ 450 ]
ScKAR2	PTKKSQIFST	AVDNQOPTVMI	KVYEGERAMS	KDNNLLGKFE	LTGIPPAPRG	[ 450 ]

Orshsp70-15	PTKKTQVFTT	YDKQTTVTI	QVFEGERSMT	RDNRLGRFD	LAGIAPAPRG	[ 450 ]
Orshsp70-16	PTKKTQVFTT	YKDRQTTVTI	QVFEGERSMT	RDNRLGKFD	LTGIAPAPRG	[ 450 ]
Orshsp70-14	PTKRAQLFST	YDKQTTVTV	KVFEGERSMT	RDNRLGRFD	LAGIAPAPRG	[ 450 ]
Orshsp70-13	PVKKSQVFTT	YEDHQTTVSI	KVFEGERSLT	KDCRELGRFD	LSGIAPAPRG	[ 450 ]
Orshsp70-12	PTKKSQVFTT	YDQQTTVSI	QVFEGERSMT	KDCRLLGKFD	LSGIPAAPRG	[ 450 ]
Cmhsp70-4	PTKKSQIFTT	HVRDQSSVLI	QVYEGERVAT	KDNHLLGKFE	LTGIPPAPRG	[ 450 ]
Orshsp70-2	PTKKEQVFST	YSDNQPGVLI	QVYEGERTRT	KDNNLLGKFE	LSGIPAAPRG	[ 450 ]
Tphsp70-5	PTKKSQTFST	HQDNQPAVLI	QVFEGERSMT	KDNHLLGKFE	LTGIPPAPRG	[ 450 ]
Olhsp70-5	PCKKKSEFTT	VYDNQDEIDV	RIFEGERNSNT	DGNHLLGEFQ	ISGIERASAG	[ 450 ]
Pfhsp70-3	PTKKSQIFST	AADNQTQVSI	KVFQGEREMA	SDNKLLGSFD	LVGIPAAPRG	[ 450 ]
Pyhsp70-1	PTKKSQTFST	YQDNQPAVLI	QVFEGERALT	KDNHLLGKFE	LSGIPPAQRG	[ 450 ]
ScSSB1	PTIKRRTFST	CADNQTTVQF	PVYQGERVNC	KENTLLGEFD	LKNIPMPMAG	[ 450 ]
ScSSB2	PTIKRRTFST	VSDNQTTVQF	PVYQGERVNC	KENTLLGEFD	LKNIPMPMAG	[ 450 ]
Tphsp70-3	PCKKTRTYTT	VDDWQTEIDV	VVFEGERPHV	DANNKLGSFV	ISGVQRARAG	[ 450 ]
Othsp70-2	PCKKKSEFTT	VYDNQDEIDV	RIFEGERQNT	DGNHLLGEFQ	ISGIERASAG	[ 450 ]
Othsp70-4	PTKKEQVFST	YSDNQPGVLI	QVFEGERSRT	RDNHLLGKFE	LSGIPAAPRG	[ 450 ]
EcoliDnaK	PTKHSQVFST	AEDNQSAVTI	HVLQGERKRA	ADNKS LGQFN	LDGINPAPRG	[ 450 ]
Orshsp70-9	PTKKSQVFST	AADNQTQVGI	RVLQGEREMA	TDNKLLGEFD	LVGIPAAPRG	[ 450 ]
Orshsp70-11	PTKKSQVFST	AADNQTQVGI	KVLQGEREMA	TDNKLLGEFQ	LEGIPAAPRG	[ 450 ]
Orshsp70-10	PTKKSQVFST	AADNQTQVGI	KVLQGEREMA	ADNKLLGEFD	LVGIPAAPRG	[ 450 ]
Athsp70-10	PTKKSQVFST	YDQQTTVSI	QVFEGERSLT	KDCRLLGKFD	LNGIPAAPRG	[ 450 ]
Athsp70-9	PTKKSQVFST	AADNQTQVGI	RVLQGEREMA	TDNKLLGEFD	LVGIPPSPRG	[ 450 ]
Orshsp70-4	PTKKEQVFST	YSDNQPGVLI	QVYEGERART	KDNNLLGKFE	LSGIPAAPRG	[ 450 ]
Crhsp70-2	PTKKSQVFST	AADNQTQVGI	KVFQGEREMA	ADNKLLGQFD	LVGIPAAPRG	[ 450 ]
Olhsp70-2	PTKKSQTFST	AADNQTQVGI	KVLQGEREMA	ADNKT LGQFD	LVGIPAAPRG	[ 450 ]
Othsp70-3	PTKKSQTFST	AADNQTQVGI	KVLQGEREMA	ADNKT LGQFD	LVGIPAAPRG	[ 450 ]
Tphsp70-2	PTKKQQTGST	AVDNQPQVQI	KVMQGEREMA	ADNKNLGEFD	LVGIPSAPRG	[ 450 ]
Cmhsp70-2	PTKKSQVFST	AADNQTQVGI	KVLQGERPMA	AENKLLGQFD	LVGIPAAPRG	[ 450 ]
ScSCECM10	PNKKSQIFST	AASGQTSVEV	KVFQGERELV	KDNKLIGNFT	LAGIPPAPKG	[ 450 ]
ScSSC1	PTKKSQIFST	AAAGQTSVEI	RVFQGERELV	RDNKLIGNFT	LAGIPPAPKG	[ 450 ]
Orshsp70-8	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	RDNKSLGSFR	LDGIPAAPRG	[ 450 ]
Orshsp70-7	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	RDNKSLGSFR	LDGIPAAPRG	[ 450 ]
Athsp70-6	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	RDNKSLGSFR	LDGIPAAPRG	[ 450 ]
Athsp70-7	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	RDNKSIGSFR	LDGIPAAPRG	[ 450 ]
Cchsp70-1	PTRKTEIYST	AVDNQTNVEI	HVLQGERELA	KDNKSLGTFR	LDGIPAAPRG	[ 450 ]
Cmhsp70-1	PTRKTEIYST	AVDNQTNVEI	HVLQGERELA	KDNKSLGTFR	LDGIPAAPRG	[ 450 ]
Athsp70-8	PTKKSQVFST	AADNQM QVGI	KVLQGEREMA	ADNKVLGEFD	LVGIPAAPRG	[ 450 ]
Crhsp70-1	PTSKSEVFST	AADGQTSVEI	NVLQGEREFA	RDNKSLGTFR	LDGIPAAPRG	[ 450 ]
Gthsp70-1	PTKKSEIFST	AVDNQPNVEI	HVLQGEREFT	KDNKSLGTFR	LDGIMPAPRG	[ 450 ]
Guthsp70-1	PTKKSEVFST	AVDNQPNVEI	HVLQGEREFA	KDNKSLGTFR	LDGILPAPRG	[ 450 ]
Olhsp70-1	PTSKSEVFST	AADGQTSVEI	NVLQGEREFV	KDNKSLGNFR	LDGIPSAPRG	[ 450 ]
Oshsp70-1	PVKKSEM FST	AVENQTNVEI	HVLQGERELV	AGNKS LGNFR	LDGIPAAERG	[ 450 ]
Pfhsp70-1	PAKKSQIFTT	YADNQPGVLI	QVYEGERALT	KDNNLLGKFH	LDGIPAPRK	[ 450 ]
Phhsp70-1	PTKKSEVFST	AVDNQPNVEI	QVLQGERELT	KDNKSLGTFR	LDGIMPAPRG	[ 450 ]
Pophsp70-1	PTKKSEVFST	AVDNQPNVEI	QVLQGERELT	KDNKSLGTFR	LDGIMPAPRG	[ 450 ]
Poyhsp70-1	PTKKSEVFST	AVDNQPNVEI	QVLQGERELT	KDNKSLGTFR	LDGIMPAPRG	[ 450 ]
Pyhsp70-2	PAKKSQIFTT	YADNQPGVLI	QVYEGERALT	KDNNLLGKFH	LDGIPAPRK	[ 450 ]
SyDnaK1	PTSRSEVFST	AVDGQTSVEI	HVIQGERAMA	RDNKSLGKFL	LAGIPPA PRG	[ 450 ]

SynDnaK2	PTKKSETFST	AVDGOSNVEI	HVLQGEREMA	NDNKSLGTFR	LDGIPPAPRG	[ 450 ]
SynDnaK3	PVRKSDIFST	GENNQTVVEV	HVLQGEREMA	SDNISLGRFK	LSGIPPAPRG	[ 450 ]
Tphsp70-1	PVKKSELFST	AADNQTNVEI	HVLQGEREVV	SGNKSLGNFK	LEGIPQAPKG	[ 450 ]
Athsp70-1	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKDEIEKMVQ	[ 500 ]
Athsp70-2	VPQITVCFDI	DANGILNVSA	EDKTTGKKNK	ITITNDKGRL	SKDIEIEKMVQ	[ 500 ]
Athsp70-3	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKDEIEKMVQ	[ 500 ]
Athsp70-4	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Athsp70-5	VPQINVCFDI	DANGILNVSA	EDKTAGVKNQ	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Orshsp70-5	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Orshsp70-3	VPQINVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Orshsp70-6	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Orshsp70-1	VPQINVTFDI	DANGILNVSA	EDKTTGKKNK	ITITNDKGRL	SKEEIERMVQ	[ 500 ]
Crhsp70-3	VPQINVIFDI	DANGILNVSA	EDKTTGNKNK	ITITNDKGRL	SKDEIERMVQ	[ 500 ]
Olhsp70-4	VPQINVCFDI	DANGILNVSA	EDKGSGQKNK	ITITNDKGRL	SKEDIERMVQ	[ 500 ]
Othsp70-5	-----L NAR-----	-----	-----TCSST-V AHLDVG-----			[ 500 ]
Tphsp70-4	QPQIDVIFDM	DANGILNVSA	LEKSTGKENK	ITITNDKGRL	SQEEIERMVQ	[ 500 ]
Pfhsp70-2	VPKIEVTFTV	DKNGILHVEA	EDKGTGKSRG	ITITNDKGRL	SKEQIEKMIN	[ 500 ]
ScSSA1	VPQIEVTFDV	DSNGILNVSA	VEKGTGKSINK	ITITNDKGRL	SKEDIEKMVA	[ 500 ]
ScSSA2	VPQIEVTFDV	DSNGILNVSA	VEKGTGKSINK	ITITNDKGRL	SKEDIEKMVA	[ 500 ]
ScSSA3	VPQIDVTFDI	DANGILNVSA	LEKGTGKSINK	ITITNDKGRL	SKDDIDRMVS	[ 500 ]
ScSSA4	VPQIEVTFDI	DANGILNVSA	VEKGTGKSINK	ITITNDKGRL	SKEDIDKMVA	[ 500 ]
Cmhsp70-3	VPQIEVTFDL	DANGILNVTA	VDKTTGKSER	IAIKNEKGRL	SEAEVERMVK	[ 500 ]
Pyhsp70-3	VPQIEVTFDV	DANAIINISA	IDKMTNKKQQ	ITIQSSGG-L	SKEEIEKMVQ	[ 500 ]
Athsp70-11	TPQIEVTFEV	DANGILNVKA	EDKASGKSEK	ITITNEKGRL	SQEEIDRMVK	[ 500 ]
Athsp70-12	VPQIEVTFEV	DANGILQVKA	EDKVAKTSQS	ITITNDKGRL	TEEEIEEMIR	[ 500 ]
Athsp70-13	IPQFTVCFDI	DSNGILNVSA	EDKATGKKNK	ITITNDKGRL	SKDDIEKMVQ	[ 500 ]
Crhsp70-4	TPQIEVTFEV	DANGILTVA	QDKGTGKKEK	ITITAEGKRL	SQDDIERMVK	[ 500 ]
Crhsp70-5	TPQIEVTFEV	DANGILNVA	EDKGTGKKEK	ITITAEGKRL	SQDDIERMVK	[ 500 ]
Olhsp70-3	VPQIEVTFEI	DANGILNVGA	EDKGTGKSEK	ITITNDKGRL	SQEEIERMVE	[ 500 ]
Othsp70-1	VPQIEVTFEI	DANGILNVGA	EDKGTGKSEK	ITITNDKGRL	SQEEIERMVE	[ 500 ]
SCKAR2	VPQIEVTFAL	DANGILKVSA	TDKGTGKSES	ITITNDKGRL	TQEEIDRMVE	[ 500 ]
Orshsp70-15	APQIEVTFEV	DANGILSVLA	ADKATGRSEK	ITISGDDRKI	SQEEIDRMVR	[ 500 ]
Orshsp70-16	APQIAVTFEV	DANGILSVLA	ADKATGRSEK	ITISGDDRKI	SQEEIDRMVR	[ 500 ]
Orshsp70-14	APQIEVAFEV	DADGILSVSA	ADRATGRSER	ITISGDDRKT	SREEIDRMLG	[ 500 ]
Orshsp70-13	VPQIEVTFEV	DENGILHVTA	SDKAAGRSKS	ITITNDKGRL	SQEEIDRMVR	[ 500 ]
Orshsp70-12	TPQIEVTFEV	DANGILNVKA	EDKGTGKSEK	ITITNEKGRL	SQEEIDRMVR	[ 500 ]
Cmhsp70-4	VPQIEVTFEI	DANGILQVSA	EEKTAGKREK	ITIRNDKGRL	KDEEIORMVR	[ 500 ]
Orshsp70-2	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKDIEIEKMVQ	[ 500 ]
Tphsp70-5	VPQIEVSFEV	DANGILQVSA	EDKGTGKAEK	ITITAEGKRL	SEEDIERMV	[ 500 ]
Olhsp70-5	EPKIDVTFEV	NTNGLLTVTA	KDRVTVGEAN	VSLQHDRGRL	TAAEIERMCA	[ 500 ]
Pfhsp70-3	VPQIEVTFDV	DANAIINISA	IDKMTNKKQQ	ITIQSSGG-L	SKEEIEKMVQ	[ 500 ]
Pyhsp70-1	VPKIEVTFTV	DKNGILHVEA	EDKGTGSKKG	ITITNDKGRL	SKEQIEKMIN	[ 500 ]
SCSSB1	EPVLEAIFEV	DANGILKVTA	VEKSTGKSSN	ITISNAVGRL	SSEEIEKMVN	[ 500 ]
SCSSB2	EPVLEAIFEV	DANGILKVTA	VEKSTGKSSN	ITISNAVGRL	SSEEIEKMVN	[ 500 ]
Tphsp70-3	EPKVDVTFAL	DANGILNVSA	RDQVTGAEAR	AEIKAEGKRL	TSDDIDKMIE	[ 500 ]
Othsp70-2	EPKIDVTFEV	NTNGLLTVTA	KDRVTVGEAN	VSLQHDRGRL	TAAEIERMCA	[ 500 ]
Othsp70-4	VPQINVCFDI	DANGILNVSA	EDKASGQKNK	ITITNDKGRL	SKEEIERMVQ	[ 500 ]

EcoliDnaK	MPQIEVTFDI	DADGILHVSA	KDKNSGKEQK	ITIKASSG-L	NEDEIQKMVR	[ 500 ]
Orshsp70-9	MPQIEVTFDI	DANGIVTVSA	KDKSTGKEQQ	ITIRSSGG-L	SEAEIQKMVQ	[ 500 ]
Orshsp70-11	MPQIEVTFDI	DANGIVKVSA	KDKSTGKEQE	ITIKSSGG-L	SESDIEKMVR	[ 500 ]
Orshsp70-10	MPQIEVTFDI	DANGIVTVSA	KDKATGKEQQ	ITIRSSGG-L	SEAEIQKMVH	[ 500 ]
Athsp70-10	TPQIEVTFEV	DANGILNVKA	EDKASGKSEK	ITITNEKGRL	SQEEIDRMVK	[ 500 ]
Athsp70-9	VPQIEVTFDI	DANGIVTVSA	KDKTTGKVQQ	ITIRSSGG-L	SEDDIQKMVR	[ 500 ]
Orshsp70-4	VPQITVCFDI	DANGILNVSA	EDKTTGQKNK	ITITNDKGRL	SKEEIEKMVQ	[ 500 ]
Crhsp70-2	VPQVEVTFDI	DANGIVHVSA	KDKATGKEQS	VRIQSSGG-L	SDDQINQMV	[ 500 ]
Olhsp70-2	VPQIEVTFDI	DANGIVNVSA	KDKATNKEQK	VTIQSSGG-L	SDADIEQMVR	[ 500 ]
Othsp70-3	VPQIEVTFDI	DANGIVNVSA	KDKATGKEQK	VTIQSSGG-L	SDSDIENMVR	[ 500 ]
Tphsp70-2	VPQIEVSFDI	DADGILNVSA	KDKGTGKEQN	IIIKSCGG-L	SDDDIERMVR	[ 500 ]
Cmhsp70-2	VPQIEVIFDI	DANGILHVSA	VDKGTGKRNE	VVITSSGG-L	SNEEIEKMIK	[ 500 ]
ScECM10	TPQIEVTFDI	DANGIINVSA	KDLASHKDSS	ITVAGASG-L	SDTEIDRMVN	[ 500 ]
ScSSC1	VPQIEVTFDI	DADGIINVSA	RDKATNKDSS	ITVAGSSG-L	SENEIEQMVN	[ 500 ]
Orshsp70-8	VPQIEVKFDI	DANGILSVSA	VDKGTGKKQD	ITITGAST-L	PKDEVEKMVE	[ 500 ]
Orshsp70-7	VPQIEVKFDI	DANGILSVA	IDKGTGKKQD	ITITGAST-L	PKDEVERMV	[ 500 ]
Athsp70-6	VPQIEVKFDI	DANGILSVSA	VDKGTGKKQD	ITITGAST-L	PKDEVQMVQ	[ 500 ]
Athsp70-7	VPQIEVKFDI	DANGILSVSA	SDKGTGKKQD	ITITGAST-L	PKDEVDTMVQ	[ 500 ]
Cchsp70-1	VPQIEVTFDI	DANGILSVTA	KEKTTGKQQS	VTITGAST-L	DKDEIQKIIK	[ 500 ]
Cmhsp70-1	VPQIEVTFDI	DANGILSVTA	KERSTGKQQS	ITITGAST-L	DQSEIERMV	[ 500 ]
Athsp70-8	MPQIEVTFDI	DANGITTVSA	KDKATGKEQN	ITIRSSGG-L	SDDEINRMVK	[ 500 ]
Crhsp70-1	VPQIEVKFDI	DANGILSVTA	TDKGTSKKQD	IRITGAST-L	DKGDVERMV	[ 500 ]
Gthsp70-1	VPQIEVIFDI	DANGILSVKA	KDKGTGKEQS	ITITGAST-L	PKEEVEKLV	[ 500 ]
Guthsp70-1	VPQIEVTFDI	DANGILSVTA	KDKGTGKEQS	ITITGAST-L	PSDEVERMV	[ 500 ]
Olhsp70-1	VPQIEVKFDI	DANGILSVEA	CDKGTGKKQD	IKITGAST-L	SSDEVDRMVA	[ 500 ]
Oshsp70-1	VPQIEVTFDI	NVDGLLSVKA	KELETGIEQS	VTIQGASN-L	DESEVSDMLA	[ 500 ]
Pfhsp70-1	VPQIEVTFDI	DANGILNVTA	VEKSTGKQNH	ITITNDKGRL	SQDEIDRMVN	[ 500 ]
Phhsp70-1	VPQIEVTFDI	DANGILSVKA	KEKATGKEQS	ITISGAST-L	PKDDVERMV	[ 500 ]
Pophsp70-1	VPQIEVTFDI	DANGILSVKA	KEKATGKEQS	ITISGAST-L	PKDDVERMV	[ 500 ]
Poyhsp70-1	VPQIEVTFDI	DANGILSVKA	KEKATGKEQS	ITISGAST-L	PKDDVERMV	[ 500 ]
Pyhsp70-2	VPQIEVTFDI	DANGILNVTA	VEKSTGKQNH	ITITNDKGRL	SPEEIDRMVN	[ 500 ]
SyDnaK1	MPQIEVSFEI	DVNGILKVSA	QDQGTGKEQS	IVISHGG-L	SGGEIEKMRQ	[ 500 ]
SynDnaK2	VPQIEVTFDI	DANGILNVTA	KDRGTGKEQS	ISITGAST-L	PDTEVDRMV	[ 500 ]
SynDnaK3	VPQVQVSFDI	DANGILQVTA	RDKTTGREQS	ITVQGASI-L	SEGEVNRMIQ	[ 500 ]
Tphsp70-1	KPQIEVTFDI	NVDGILSVTA	KENESGKEQN	VTIQGASN-L	SESEVNDMLE	[ 500 ]
Athsp70-1	EAEKYKSEDE	EHKKKVEAKN	ALENYAYNMR	NTIQDEK-KL	PAADKKKIED	[ 550 ]
Athsp70-2	EAEKYKSEDE	EHKKKVEAKN	ALENYAYNMR	NTIRDEK-KL	PAADKKKVED	[ 550 ]
Athsp70-3	EAEKYKSEDE	EHKKKVDAKN	ALENYAYNMR	NTIRDEK-KL	AGDDKKKIED	[ 550 ]
Athsp70-4	EAEKYKAED	EHKKKVDAKN	ALENYAYNMR	NTIKDEK-KL	DAADKKKIED	[ 550 ]
Athsp70-5	DAEKYKAED	QVKKKVEAKN	SLENYAYNMR	NTIKDEK-KL	TQEDKQKIEK	[ 550 ]
Orshsp70-5	EAEKYKSEDE	EHKKKVESKN	ALENYAYNMR	NTIKDEK-KL	PAADKKKIED	[ 550 ]
Orshsp70-3	EAEKYKAED	EHKKKVDAKN	ALENYAYNMR	NTIKDEK-KL	AADDKKRIED	[ 550 ]
Orshsp70-6	DAEKYKSEDE	EHKKKVDAKN	SLENYAYNMR	NTIQDEK-KL	PADDKKKIED	[ 550 ]
Orshsp70-1	EAEKYKAED	QVRHKVEARN	ALENYAYNMR	NTVRDEK-KL	PADDKKKIED	[ 550 ]
Crhsp70-3	EAEKYKADDE	QLKKKVEAKN	SLENYAYNMR	NTIREDK-QL	SASDKESMEK	[ 550 ]
Olhsp70-4	DAEKYKAED	EHKKKIEAKN	AVENYAYNMR	NTMNDTN-KL	DADDKKTIED	[ 550 ]
Othsp70-5	-----	SAFEPT	SASHMLVQ--	-----	-----	[ 550 ]

Tphsp70-4	EAEQYKAEDD ANKNRVESKN GLENYCYSLK SSIEGEE-KI PEGDKTKLLD [ 550 ]
Pfhsp70-2	DAEKFADEDK NLREKVEAKN NLDNYIQSMK ATVEDKDKKI EKEDKNTILS [ 550 ]
ScSSA1	EAEEKFKEEDE KESQRIASKN QLESIAYSLK NTISEAG-KL EQADKDTVTK [ 550 ]
ScSSA2	EAEEKFKEEDE KESQRIASKN QLESIAYSLK NTISEAG-KL EQADKDAVTK [ 550 ]
ScSSA3	EAEEKYRADDE REAERVQAKN QLESYAFTLK NTINEAS-KV GEDDAKRLET [ 550 ]
ScSSA4	EAEEKFKAED E QEAQRVQAKN QLESYAFTLK NSVSENN-KV GEEDARKLEA [ 550 ]
Cmhsp70-3	EAEAMKAKDE EVRRTVEARN SLEQLAYS A K RTVEEEQ-SL SAGDKQKILD [ 550 ]
Pyhsp70-3	EAELNREKDQ HKKNLTD SKN EAETLIY SSE K Q LD D F K D K I SDSDKEELKQ [ 550 ]
Athsp70-11	EAEEFAEEDK KVKEKIDARN A LET Y V Y N M K N Q V S D K D K K L E G D E K E K I E A [ 550 ]
Athsp70-12	EAEEFAEEDK IMKEKIDARN K LET Y V Y N M K S T V A D K E K K I S D E D K E K M E G [ 550 ]
Athsp70-13	EAEEKYKSEDE EHKKKVEAKN GLENYAYNVG N T L R D - - - K L P A A D K K K F E D [ 550 ]
Crhsp70-4	EAEEFAEQDK AVKAKIDARN QLET Y C Y N M K N T V E D K - - - K I E E E D K E K I T A [ 550 ]
Crhsp70-5	EAEEFAEQDK AVKAKIDARN QLET Y C Y N M K S T V E D K - - - K I E E E D K E K I T A [ 550 ]
Olhsp70-3	EAEEFAEEDR KTKERIDS RN SLET FAY N M K N T I S D S D K K L D D D D K N T I E E [ 550 ]
Othsp70-1	EAEEFAEEDR KTKERIDS RN SLET FAY N M K N T V S D S D K K L E E D D K S T I E E [ 550 ]
SckAR2	EAEKFASEDA SIKAKVESRN K LEN Y A H S L K N Q V N G D - - - K L E E E D K E T L L D [ 550 ]
Orshsp70-15	EAEEFAEEDR RHREQVDARN SLEAYV V N I K N - T L G G K - A M E G E E K D K V E E [ 550 ]
Orshsp70-16	EAEEFAEEDR RHREQVDARN SLEAYV V N V K S - T L G G K - A M E G E E K E K V E E [ 550 ]
Orshsp70-14	EAEEFADED R R H R E R A G A R N SLEAYV V G V K N A V V G G E - A M D G G E K E K V E A [ 550 ]
Orshsp70-13	EAEEFAEEDR R V R E R V D A R N R L E N Y V V Y R M R S A V R D G G - K I G D D D R E R M E S [ 550 ]
Orshsp70-12	EAEEFAEEDK KVKERIDARN QLET Y V Y N M K N T V G D K D K K L E S E E K E K V E E [ 550 ]
Cmhsp70-4	EAEEYAEVDA KLKRKVDAKN N F E N Y I Y Q V R Q M Y E D K D - K L S T D D I D K L K D [ 550 ]
Orshsp70-2	EAEEKYKAED E EHKKKVD A K N S L E N Y A Y N M R N T I K D D K - K L P E A D K K K I E D [ 550 ]
Tphsp70-5	EAEEFAEEDK KVKERIDARN G L E S Y L Y N L K N T L D D D E - N I S A E D K K E L Q D [ 550 ]
Olhsp70-5	EAEEAMAEEDE RLARMREYEG TD----- [ 550 ]
Pfhsp70-3	EAELNREKDQ L K K N L T D S K N EAETLIY SSE K Q L E D F K D K I S D S D K D E L R Q [ 550 ]
Pyhsp70-1	DAEKFADEDK NLREKVESKN NLDNYIQSMK ATVEDKDKKI EKEDKDTILN [ 550 ]
ScSSB1	QAEEFKAADE AFAKKHEAR Q R L E S Y V A S I E Q T V T D P V - K L K R G S K S K I E A [ 550 ]
ScSSB2	QAEEFKAADE AFAKKHEAR Q R L E S Y V A S I E Q T V T D P V - K L K R G S K S K I E A [ 550 ]
Tphsp70-3	DAEKYRAQDE ELTEKTDYKA S L E E A L F T V Q S K V A E T N - - - - - K S N E V K [ 550 ]
Othsp70-2	EAEEAMAEEDE RIAKMREYEG TD----- [ 550 ]
Othsp70-4	DAEKFAEDE EHKKKIDAKN GLENYAYNMR N T M S D A N - K L D A E D K K T I E D [ 550 ]
EcoliDnaK	DAEANAEADR K F E E L V Q T R N Q G D H L L H S T R K Q V E E A G D K L P A D D K T A I E S [ 550 ]
Orshsp70-9	EAELHSQKDQ ERKALIDIRN N A D T T I Y S V E K S L G E Y R D K I P A E V A T E I E T [ 550 ]
Orshsp70-11	EAELHSQKDQ ERKSLIDLKN S A D T T I Y S I E K S V S E Y K D K V P A E V T N E I Q S [ 550 ]
Orshsp70-10	EAELHSQKDQ ERKALIDIRN T A D T T I Y S I E K S L G E Y R D K I P A E V A S E I E T [ 550 ]
Athsp70-10	EAEEFAEEDK KVKEKIDARN A LET Y V Y N M K N Q V N D K D K K L E G D E K E K I E A [ 550 ]
Athsp70-9	EAELHAQDK ERKELIDTKN T A D T T I Y S I E K S L G E Y R E K I P S E I A K E I E D [ 550 ]
Orshsp70-4	EAEEKYKAED E EHKKKVD A K N A L E N Y A Y N M R N T I K D D K - K L S A D D K K K I E D [ 550 ]
Crhsp70-2	DAETYAEKDK TRKELIEAKN E A D T A I Y T T E K S L A E Y K S K L P Q A V V D E I Q K [ 550 ]
Olhsp70-2	DAESHAESDK QRKELIEVRN E A D T L V Y S A D K N L S E H G D K L P Q D V K D A I T N [ 550 ]
Othsp70-3	DAEAHADADK KRKEMIEIKN E A D T L I Y S A D K N L S E H G A N L P Q D V K D A I T N [ 550 ]
Tphsp70-2	DAEVNADADA K K K Q V I E S K N E I D S L I Y S T E K S V K E H A D K L S E E V K T E V E K [ 550 ]
Cmhsp70-2	DAEMHAEEDR R R Q A A V E A K N E A D S L L Y T T E R T L S E H R A K L S A T D V E T V E K [ 550 ]
ScECM10	EAERYKNQDR ARRNAIETAN K A D Q L A N D T E N S I K E F E G K L D K T D S Q R L K D [ 550 ]
ScSSC1	DAEKFKSQDE ARKQAIETAN K A D Q L A N D T E N S L K E F E G K V D K A E A Q K V R D [ 550 ]
Orshsp70-8	EAEEKFAKEDK E K R D A I D T K N Q A E S V I Y Q T E K Q L K E L G D K V P G D V K G K V E A [ 550 ]
Orshsp70-7	EADKFAQEDK E K R D A I D T K N Q A D S V V Y Q T E K Q L K E L G D K V P A P V K E K V D A [ 550 ]

Athsp70-6	EAERFAKDDK	EKRDAIDTKN	QADSVVYQTE	KOLKELGEKI	PGEVKEKVEA	[ 550 ]
Athsp70-7	EAERFAKEDK	EKRDAIDTKN	QADSVVYQTE	KQLKELGEKI	PGPVKEKVEA	[ 550 ]
Cchsp70-1	EAЕINAQEDR	KKKENIELKN	QAETICYQAQ	KQLNEFKEKI	DKNQYKRIED	[ 550 ]
Cmhsp70-1	EAЕKNAEEDR	KKREQIETKN	LAESVYYQAE	KMG-----	-----LKD	[ 550 ]
Athsp70-8	EAELNAQKDQ	EKKQLIDLKN	SADTTIYSVE	KSLSEYREKI	PAEIASEIET	[ 550 ]
Crhsp70-1	EAЕKFAGEDK	KRRESVETKN	QAETMVYQTE	KQLKEFEGKV	PADIKAKVEA	[ 550 ]
Gthsp70-1	EAЕENSELDK	HKREQIDLKN	QADALCYQSQ	NQINELKDKI	SEDEKQNVQK	[ 550 ]
Guthsp70-1	EAQNSAKEDK	EKRDKIDLKN	QSDSLCYQSE	KQLKELEGKI	DDTNKNKISS	[ 550 ]
Olhsp70-1	DAEKFASED	AKREQVEVRN	SADSMVYQTE	KQVQELDEKI	PQDVKEKVLE	[ 550 ]
Oshsp70-1	EAЕKYAALNK	EKRQNIDLKN	QAETLCFEAE	KELDLFKTSI	PEEKQQNVQK	[ 550 ]
Pfhsp70-1	DAEKYKAED	ENRKRIEARN	SLENYCYGVK	SSLEDQK-KL	QPAEIETCMK	[ 550 ]
Phhsp70-1	EAЕENFDTDQ	KRRKNIDTKN	QAESLCYQAE	KQIKEFEDKI	SQDLKTKIEE	[ 550 ]
Pophsp70-1	EAЕENFDVDQ	KRRKNIDIRN	QAESLCYQSE	KQVKEFEDKI	DEELKNRITN	[ 550 ]
Poyhsp70-1	EAЕENFDTDQ	KRRKNIDTKN	QAESLCYQAE	KQVKEFEDKI	SQDLKIKIEE	[ 550 ]
Pyhsp70-2	DAEKYKAED	ENKKRIEARN	SLENYCYGVK	SSLEDQK-KL	QPNEVETCMK	[ 550 ]
SyDnaK1	EAQQYAAQDQ	LRLRMMELQN	QADSLFHTYE	TTLQESGELV	REELKSSGKQ	[ 550 ]
SynDnaK2	EAESNAAADK	ERREKIDRKN	QADSLVYQAE	KQITELGDKV	PAADKIAEG	[ 550 ]
SynDnaK3	EAETFAAQDR	ERRERIEKRN	SAKALTQAOQ	RRLKEVTLAF	TVSYRRQVDA	[ 550 ]
Tphsp70-1	EAЕKYAVIDK	EQKEKSEMVV	SATAYCDEVE	KKLNSGEMEC	TTEEEEIKN	[ 550 ]
Athsp70-1	SIEQAIQWLE	GNQLAEADEF	EDKMKELESI	CNPII	[ 585 ]	
Athsp70-2	SIEEAIQWLD	GNQLGEADEF	EDKMKELESV	CNPII	[ 585 ]	
Athsp70-3	SIEAAIEWLE	ANQLAECDEF	EDKMKELESI	CNPII	[ 585 ]	
Athsp70-4	AIDQAIIEWLD	GNQLAEADEF	EDKMKELES	CNPII	[ 585 ]	
Athsp70-5	AIDETIEWIE	GNQLAEVDEF	EYKLKELEGI	CNPII	[ 585 ]	
Orshsp70-5	AIDQAIQWLD	GNQLAEADEF	DDKMKELEGI	CNPII	[ 585 ]	
Orshsp70-3	AIDGAISWLD	TNQLAEADEF	EDKMKELEGI	CNPII	[ 585 ]	
Orshsp70-6	AVEQAIQWLD	NNQLAEVEEF	EDKMKELEGL	CNPII	[ 585 ]	
Orshsp70-1	AIEDAIKWLD	GNQLAEADEF	EDKMKELES	CNPII	[ 585 ]	
Crhsp70-3	ALTAAMDWLE	ANQMAEVEEF	EHHLKELEGV	CNPII	[ 585 ]	
Olhsp70-4	AVEAAITWLD	GNQTAEVDEF	EDKLKELEGV	CNPII	[ 585 ]	
Othsp70-5	-----	-----	-----	-----	[ 585 ]	
Tphsp70-4	AIAETTAWLD	ANQTAKEEF	EEKQKALEAI	AMPIL	[ 585 ]	
Pfhsp70-2	AVKDAEDWLN	NNSNADSEAL	KQKLKDLEAV	CQPII	[ 585 ]	
ScSSA1	KAETTISWLD	SNTTASKEEF	DDKLKELQDI	ANPIM	[ 585 ]	
ScSSA2	KAETTIWLD	SNTTATKEEF	DDQLKELQEV	ANPIM	[ 585 ]	
ScSSA3	ASQETIDWLD	ASQAASTDEY	KDRQKELEGI	ANPIM	[ 585 ]	
ScSSA4	AAQDAINWLD	ASQAASTEEY	KERQKELEGV	ANPIM	[ 585 ]	
Cmhsp70-3	KTKEVLEWLE	ENATASLDQI	KNMQKELESV	TMPIF	[ 585 ]	
Pyhsp70-3	KISALREKLT	--DD--LDSI	KDATKQLQEK	SWAIS	[ 585 ]	
Athsp70-11	ATKEALEWLD	ENQNSEKEEY	DEKLKEVEAV	CNPII	[ 585 ]	
Athsp70-12	VLKEALEWLE	ENVNAEKEDY	DEKLKEVELV	CDPVI	[ 585 ]	
Athsp70-13	SIEEVIQWLD	DNQLAEADEF	EHKMKELESV	WSTII	[ 585 ]	
Crhsp70-4	AVKEALEWLD	ENPDADTSEY	KDRLKEVEDV	CNPII	[ 585 ]	
Crhsp70-5	AVKEALEWLD	ENPDAEPDEY	KDKLKEVEDV	CNPII	[ 585 ]	
Olhsp70-3	AVKETLDWLD	ENQSAEKEDY	DEQLKQLEEV	CNPIV	[ 585 ]	
Othsp70-1	AVKEALDWLD	DNQSAEKDDY	DEQLKKLEEV	CNPIV	[ 585 ]	
ScKAR2	AANDVLEWLD	DNETAIAEDF	DEKFESLSKV	AYPIT	[ 585 ]	

Orshsp70-15	AVREAYEWLD	GNPDAGKEEY	EEKLRELEDV	CNPVM	[ 585 ]
Orshsp70-16	AVREAHEWLD	GNPDAGKEEY	EEKLRELEDV	CNPVM	[ 585 ]
Orshsp70-14	AVMEAYEWLD	GNQDVGKEEY	EEKLRELEDV	CNPVM	[ 585 ]
Orshsp70-13	ALTEALEWLE	DNRTAEKEDY	EEKLKEVEQV	CGPII	[ 585 ]
Orshsp70-12	ALKEALEWLD	ENQTAEKEEY	EEKLKEVEAV	CNPII	[ 585 ]
Cmhsp70-4	SVESAQDWLD	EHEASDAAAI	EERMKAQFDV	VQPII	[ 585 ]
Orshsp70-2	AIDGAISWLD	SNQLAEAEFF	EDKMKELEGV	CNPII	[ 585 ]
Tphsp70-5	IVDETLDWME	ENEA-DKEDY	DGKQKEVENI	ANPIM	[ 585 ]
Olhsp70-5	-----	-----	-----	-----	[ 585 ]
Pfhsp70-3	KITVLREKLT	--ED--LDSI	KDATKQLQEK	SWAIS	[ 585 ]
Pyhsp70-1	AIKEAEDWLN	NNSNADSEAL	KQKLKDVEAI	CQPII	[ 585 ]
ScSSB1	ALSDALAALQ	IE-DPSADEL	RKAEVGLKRV	VTKAM	[ 585 ]
ScSSB2	ALSDALAALQ	IE-DPSADEL	RKAEVGLKRV	VTKAM	[ 585 ]
Tphsp70-3	ELADLMDWLE	LDDTATLEDM	KKRGRIVEDT	WGIIV	[ 585 ]
Othsp70-2	-----	-----	-----	-----	[ 585 ]
Othsp70-4	AVEAAITWLD	GNQTAEVDEF	EDKLKELEGV	CNPII	[ 585 ]
EcoliDnaK	ALTALETALK	--ED--KAAI	EAKMQELAQV	SQKLM	[ 585 ]
Orshsp70-9	AIADLRSVMT	--DD--IEKI	KANIEAANKA	VSKIG	[ 585 ]
Orshsp70-11	AVSDLRAAMA	--DD--LEKI	KQKLEAANKA	VSKIG	[ 585 ]
Orshsp70-10	AIADLRNEMA	--DD--IEKI	KSKIEAANKA	VSKIG	[ 585 ]
Athsp70-10	ATKEALEWLD	ENQNSEKEEY	DEKLKEVEAV	CNPII	[ 585 ]
Athsp70-9	AVADLRSASS	--DD--LNEI	KAKIEAANKA	VSKIG	[ 585 ]
Orshsp70-4	AIDGAINWLD	SNQLAEADEF	EDKMKELESI	CNPII	[ 585 ]
Crhsp70-2	AITECRAASQ	--ED--LPDL	KAKIQALSTA	SMKIG	[ 585 ]
Olhsp70-2	AQAEVRSAAE	--ED--LAKL	REAINGLQQA	VMKIG	[ 585 ]
Othsp70-3	AQADVRTASE	--ED--VEKL	REAINALQKA	VMKIG	[ 585 ]
Tphsp70-2	AIEEARLVKD	--DD--LDEL	KAKTEALSQA	SMKMG	[ 585 ]
Cmhsp70-2	AAQDLRAVLE	--DATAADTI	REKTKVLQQA	AMRIG	[ 585 ]
ScECM10	QISSLRELVS	RSDEVNDDDV	GTKIDNLRTS	SMKLF	[ 585 ]
ScSSC1	QITSLKELVA	RVEEVNAEEL	KTKTEELQTS	SMKLF	[ 585 ]
Orshsp70-8	KLTELKDAVA	--GST--QTM	KDALAALNQE	VMQLG	[ 585 ]
Orshsp70-7	KLNELKEAIA	--GST--QSM	KDAMAALNEE	VMQIG	[ 585 ]
Athsp70-6	KLQELKDKIG	--GST--QEI	KDAMAALNQE	VMQIG	[ 585 ]
Athsp70-7	KLQELKEKIA	--GST--QEI	KDTMAALNQE	VMQIG	[ 585 ]
Cchsp70-1	LIAKLKQAIS	--NEY--EEI	KNLMEAIQKE	TMEIG	[ 585 ]
Cmhsp70-1	NAQELKNAID	--LDY--EGM	KNLTQQVQTL	IAQKA	[ 585 ]
Athsp70-8	AVSDLRTAMA	--ED--VEDI	KAKVEAANKA	VSKIG	[ 585 ]
Crhsp70-1	KLGELKAALP	--DDA--EAT	KAAMNALQQE	VMAMG	[ 585 ]
Gthsp70-1	LIDSLKLISIQ	--DDY--EKI	KDIQNQLQQV	MMNIG	[ 585 ]
Guthsp70-1	MISELRNAIN	--ENY--DEM	RDLNSKLQTA	LMDLG	[ 585 ]
Olhsp70-1	KVAELKQAIA	--DDL--EKM	KTAQEDLQQQ	VMAMG	[ 585 ]
Oshsp70-1	LIENIRQDTQ	--DNF--ESL	KLLVEELKMA	MKDMV	[ 585 ]
Pfhsp70-1	TITITLEWLE	KNQLAGKDEY	EAKQKEAESV	CAPIM	[ 585 ]
Phhsp70-1	LITELRSSLE	--EEY--ENI	ESISQRQLQNS	LMDIG	[ 585 ]
Pophsp70-1	LISELRSNLE	--EEL--DSI	EANSEKLQNA	LMEIG	[ 585 ]
Poyhsp70-1	LITELRSSLE	--EEY--DNI	ESISQQLQNA	LMDIG	[ 585 ]
Pyhsp70-2	SVTSILEWLE	KNQLAGKDEY	EAKQKEAEAV	CSPIM	[ 585 ]
SyDnaK1	KKDQLAIALR	--PNTPVEKL	QTLVEEFRQI	ILLIG	[ 585 ]

SynDnaK2 LIKDLKEAVA --EDD--AKI QTVMPELQQV LYSIG [ 585 ]  
SynDnaK3 LCSEILDSLE --DDE--RRL DRAQADLQDV LYELN [ 585 ]  
Tphsp70-1 VIKTLREALS --ANY--ASI KESFEQLRTL TE--- [ 585 ]