

Table S1. Nomenclature of human small HSP family gene members (Modified according to Kampinga et al[1] and HUGO Gene Nomenclature Committee). Citations elucidate the biological role of each protein component.

Heat Shock Protein	Full Name	Aliases
HSPB1	Heat Shock Protein family B(small) member 1	HSP27, HSP28, hsp25, CMT2F (Charcot-Marie-Tooth disease, Type 2F)[2]
HSPB2	Heat Shock Protein family B(small) member 2	MKBP(Myotonic Dystrophy Kinase Binding Protein)[3], Hs.78846
HSPB3	Heat Shock Protein family B(small) member 3	HSPL27 (27 KDa heat-shock-protein-like)[4]
CRYAA	Crystallin alpha A	CRYA1, HSPB4
CRYAB	Crystallin alpha B	CRYA2, HSPB5
HSPB6	Heat Shock Protein family B(small) member 6	Hsp20[5], FLJ32389, PPP1R91
HSPB7	Heat Shock Protein family B(small) member 7	cvHSP (cardiovascular HSP)
HSPB8	Heat Shock Protein family B(small) member 8	H11, E2IG1(Estradiol Induced Gene 1)[6], HSP22, CMT2L(Charcot-Marie-Tooth disease, Type 2L)[7]
HSPB9	Heat Shock Protein family B(small) member 9	CT51
ODF1	Outer dense fiber of sperm tails 1	ODFIG, ODF27, RT7, HSPB10, CT133
HSPB11	Heat Shock Protein family B(small) member 10	HSPCO34, PP25, IFT25 (Intraflagellar transport protein 25)[8], FAP232

Table S2. Nomenclature of human HSP40 family members (Modified according to Kampinga et al[1] and HUGO Gene Nomenclature Committee). Citations elucidate the biological role of each family member.

Heat Shock Protein	Full Name	Aliases
DNAJA1	DnaJ heat shock protein family (Hsp40) member A1	HSPF4, hdj-2 (human DnaJ homologue 2)[9], dj-2, NEDD7 (Neural precursor cell expressed, developmentally down-regulated 7)
DNAJA2	DnaJ heat shock protein family (Hsp40) member A2	HIRIP4 (HIRA Interacting protein 4), DNAJ, CPR3 (Cell cycle progression restoration gene 3 protein)[10], DNJ3
DNAJA3	DnaJ heat shock protein family (Hsp40) member A3	hTid-1 (human tumorous imaginal discs homolog)[11]
DNAJA4	DnaJ heat shock protein family (Hsp40) member A4	PRO1472
DNAJB1	DnaJ heat shock protein family (Hsp40) member B1	Hsp40 , Sis1, RSPH16B (Radial spoke 16 homolog B)
DNAJB2	DnaJ heat shock protein family (Hsp40) member B2	HSPF3
DNAJB3	DnaJ heat shock protein family (Hsp40) member B3	HCG3
DNAJB4	DnaJ heat shock protein family (Hsp40) member B4	HLJ1 (Human Liver Dna J like protein)[12]
DNAJB5	DnaJ heat shock protein family (Hsp40)	Hsc40 (Heat shock cognate 40)[13]

	member B5	
DNAJB6	DnaJ heat shock protein family (Hsp40) member B6	MRJ
DNAJB7	DnaJ heat shock protein family (Hsp40) member B7	HSC3
DNAJB8	DnaJ heat shock protein family (Hsp40) member B8	MGC33884, CT156
DNAJB9	DnaJ heat shock protein family (Hsp40) member B9	
DNAJB11[14]	DnaJ heat shock protein family (Hsp40) member B11	EDJ, HEDJ (Human DnaJ Protein 9), ERdj3 (Endoplasmic reticulum DNA J domain containing protein 3)
DNAJB12	DnaJ heat shock protein family (Hsp40) member B12	DJ10, FLJ20027
DNAJB13	DnaJ heat shock protein family (Hsp40) member B13	TSARG6 (Testis spermatocyte apoptosis-related gene 6), RSPH16A (Radial spoke 16 homolog A)[15]
DNAJB14	DnaJ heat shock protein family (Hsp40) member B14	FLJ14281[16]
DNAJC1	DnaJ heat shock protein family (Hsp40) member C1	DNAJL1 (DNA J like protein 1), ERdj1, MTJ1[17]
DNAJC2	DnaJ heat shock protein family (Hsp40) member C2	MPP11 (M phase phosphoprotein 11)[18], MPHOSPH11, ZUO1 (zuotin related factor 1), zuotin
DNAJC3	DnaJ heat shock protein family (Hsp40) member C3	P58, P58IPK (Protein kinase inhibitor of 58 kDa)[19], HP58, ERdj6, p58(IPK)
DNAJC4	DnaJ heat shock protein family (Hsp40) member C4	MCG18(multiple endocrine neoplasia type 1 candidate gene 18) [20]
DNAJC5	DnaJ heat shock protein family (Hsp40) member C5	FLJ00118[21], FLJ13070, DNAJC5A
DNAJC5B	DnaJ heat shock protein family (Hsp40) member C5 beta	MGC26226, CSP-beta (Cysteine string protein beta)[22]
DNAJC5G	DnaJ heat shock protein family (Hsp40) member C5 gamma	FLJ40417, CSP-gamma(Cysteine string protein gamma)
DNAJC6	DnaJ heat shock protein family (Hsp40) member C6	KIAA0473, PARK19(Putative tyrosine-protein phosphatase auxillin)[23,24]
DNAJC7	DnaJ heat shock protein family (Hsp40) member C7	TPR2(Tetratricopeptide repeat protein 2)[25]
DNAJC8	DnaJ heat shock protein family (Hsp40) member C8	SPF31(Splicing protein spf31)[26]
DNAJC9[27]	DnaJ heat shock protein family (Hsp40) member C9	JDD1(J domain of DnaJ-like-protein 1)[28], SB73
DNAJC10	DnaJ heat shock protein family (Hsp40) member C10	ERdj5[29], PDIA19(Protein disulfide isomerase family A, member 19)

DNAJC11	DnaJ heat shock protein family (Hsp40) member C11	FLJ10737[30]
DNAJC12	DnaJ heat shock protein family (Hsp40) member C12	JDP1(J domain containing protein 1)[31]
DNAJC13	DnaJ heat shock protein family (Hsp40) member C13	RME8 (required for receptor mediated endocytosis 8)[31], KIAA0678
DNAJC14	DnaJ heat shock protein family (Hsp40) member C14	DNAJ, DRIP78(Dopamine receptor-interacting protein of 78 kDa)[32], HDJ3, LIP6 (LYST-interacting protein 13), FLJ32792
DNAJC15	DnaJ heat shock protein family (Hsp40) member C15	MCJ(Methylation controlled J protein)[33]
DNAJC16	DnaJ heat shock protein family (Hsp40) member C16	KIAA0962[34]
DNAJC17	DnaJ heat shock protein family (Hsp40) member C17	FLJ10634[35]
DNAJC18	DnaJ heat shock protein family (Hsp40) member C18	MGC29463[36]
DNAJC19	DnaJ heat shock protein family (Hsp40) member C19	TIMM14(Mitochondrial import inner membrane translocase subunit TIM14)[37], Tim14, Pam18
HSCB	HscB mitochondrial iron-sulfur cluster cochaperone	HSC20[38], DNAJC20, Jac1
DNAJC21[39]	DnaJ heat shock protein family (Hsp40) member C21	GS3, DNAJA5, JJJ1
DNAJC22	DnaJ heat shock protein family (Hsp40) member C22	Wus (wurst homolog)[40], FLJ13236
SEC63	SEC63 homolog, protein translocation regulator	SEC63L, PRO2507, ERdj2, DNAJC23
DNAJC24	DnaJ heat shock protein family (Hsp40) member C24	JJJ3
DNAJC25	DnaJ heat shock protein family (Hsp40) member C25	bA16L21.2.1
DNAJC26	cyclin G associated kinase	GAK(Cyclin – G – associated kinase)[41]
DNAJC27	DnaJ heat shock protein family (Hsp40) member C27	RabJS (Ras-associated protein Rap1)[42]
DNAJC28	DnaJ heat shock protein family (Hsp40) member C28	C21orf78
SACS	sacsin molecular chaperone	ARSACS, KIAA0730, DKFZp686B15167, DNAJC29, SPAX6[43], PPP1R138(Protein phosphatase 1, regulatory subunit 138)
DNAJC30[44]	DnaJ heat shock protein family (Hsp40) member C30	

Table S3. Nomenclature of human HSP70 superfamily members including HSP70 and HSP110 families (Modified according to Kampinga et al[1] and HUGO Gene Nomenclature Committee). Citations elucidate the biological role of each family member.

Heat Shock Protein	Full Name	Aliases
HSPA1A	heat shock protein family A (Hsp70) member 1A	HSP70-1[45]
HSPA1B	heat shock protein family A (Hsp70) member 1B	HSP70-2[45]
HSPA1L	heat shock protein family A (Hsp70) member 1 like	HSP70-HOM[46], hum70t
HSPA2[47]	heat shock protein family A (Hsp70) member 2	
HSPA4	heat shock protein family A (Hsp70) member 4	HS24/P52[48], HSPH2
HSPA4L	heat shock protein family A (Hsp70) member 4 like	APG-1[49], Osp94 (Osmotic stress protein 94), HSPH3
HSPA5	heat shock protein family A (Hsp70) member 5	BiP (Binding immunoglobulin protein)[50]
HSPA6	heat shock protein family A (Hsp70) member 6	HSP70B' [51]
HSPA7	heat shock protein family A (Hsp70) member 7	HSP70B[52]
HSPA8	heat shock protein family A (Hsp70) member 8	HSC71 (heat shock cognate 71 protein)[53], HSC70, HSP73
HSPA9	heat shock protein family A (Hsp70) member 9	GRP75(glucose regulated protein 75)[54], PBP74 (Peptide Binding Protein 74), mot-2(mortalin-2), mthsp75
HSPA12A[55]	heat shock protein family A (Hsp70) member 12A	FLJ13874, KIAA0417
HSPA12B[55]	heat shock protein family A (Hsp70) member 12B	dJ1009E24.2
HSPA13[56]	heat shock protein family A (Hsp70) member 13	
HSPA14	heat shock protein family A (Hsp70) member 14	HSP70-4, HSP70L1(HSP70 like protein 1)[57]
HSPAH1	heat shock protein family H (Hsp110) member 1	HSP105B[58], KIAA0201, HSP105A, NY-CO-25 (Antigen NY-CO-25)
HYOU1	Hypoxia up-regulated 1	ORP150(oxygen regulated protein 150)[59], HSP12A, Grp170 (Glucose regulated protein 170)[60]

Table S4. : Nomenclature of HSP90 family members (Modified according to Kampinga et al[1] and HUGO Gene Nomenclature Committee). Citations elucidate the biological role of each family member.

Heat Shock Protein	Full Name	Aliases
HSP90AA1	heat shock protein 90 alpha family class A member 1	Hsp89, Hsp90,

		FLJ31884, HSP90N
HSP90AA3P	heat shock protein 90 alpha family class A member 1, pseudogene	
HSP90AB1[61]	heat shock protein 90 alpha family class B member 1	
HSP90B1	heat shock protein 90 beta family member 1	GP96[62], GRP94(glucose regulated protein 94)
TRAP1	TNF receptor associated protein 1	HSP75, HSP90L[63]

Table S5. Nomenclature of chaperonin family members (Modified according to Kampinga et al[1] and HUGO Gene Nomenclature Committee). Citations elucidate the biological role of each family member.

Heat Shock Protein	Full Name	Aliases
BBS10	Bardet-Biedl syndrome 10	FLJ23560[64]
BBS12[65]	Bardet-Biedl syndrome 12	FLJ35630, FLJ41559
TCP1	t-complex 1	D6S230E, CCT1 (Chaperonin containing Tcp 1)[66], Ccta
CCT2[67]	Chaperonin containing TCP1 subunit 2	Cctb
CCT3[67]	Chaperonin containing TCP1 subunit 3	Cctg
CCT4[67]	Chaperonin containing TCP1 subunit 4	Cctd
CCT5[67]	Chaperonin containing TCP1 subunit 5	KIAA0098
CCT6A[68]	Chaperonin containing TCP1 subunit 6A	TTCP20, TCPZ, Cctz, HTR3 (Histidine transport regulator 3), TCP20
CCT6B	Chaperonin containing TCP1 subunit 6B	Cctz2, TSA303 (Testis specific protein 303)[69]
CCT7	Chaperonin containing TCP1 subunit 7	Ccth, Nip7-1 [70]
CCT8	Chaperonin containing TCP1 subunit 8	Cctq, PRED71
CLPB	caseinolytic mitochondrial matrix peptidase chaperone subunit B	HSP78, SKD3[71], FLJ13152, ANKCLB(ankyrin repeat containing bacterial clp fusion)
HSPD1	heat shock protein family D (Hsp60) member 1	GroEL, HSP60[72]
HSPE1	heat shock protein family E (Hsp10) member 1	CPN10[73], GroES, HSP10, EPF
MKKS[74]	MKKS centrosomal shuttling protein	

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