

Table S1: The Human and Mouse SH2 domains. The 120 SH2 domains contained in 110 proteins identified in the human and mouse genome are listed, along with the genomic location of the gene encoding the protein, a list of protein or gene alternate names (aliases), and the Entrez Gene ID for each.

Name	Gene ID	#SH2's	Alternate Names	Genomic Loc.	Mouse Homolog	Gene ID	Alternate Symbols	Cytogenetic Loc.	Genetic Loc.
ABL1	25	1	ABL, JTK7, p150, c-ABL	9q34.1	Abi1	11350	Abi, c-Abi, E430008G22Rik	2 B	2 21.0 cM
ABL2	27	1	ARG, ABL	1q24-q25	Abi2	11352	Arg, Abi	1 G3	1 6.3 cM
AP5	10603	1		7q22.2	Ap5	23221	Ap5	5 G1	3 G3
BCAR3	8412	1	SH2D3B, NSP2, KIAA0554	10q2.1	Bcar3	29815	AND-34	17 C	
BK5	55620	1	STAP2, FLJ20234	19p13.3	Stap2	106766	AWO49765	17 C	
BLK	640	1	MGC10442	8q23-p22	Blk	12143		14 C3	14 28.0 cM
BLNK	29760	1	Ly57, SLP65, BLNK-s, SLP-65, B-cell linker	10q23.2-q23.33	Blnk	17060	BCA, Bca, BASH, BLNK, Ly57, Ly-57, Lyw-57, SLP-65	19 C3	19 31.0 cM
BMK	660	1	ETK, PSCTK2, PSCTK3	Xq22.2	Bmx	12159	EtK, Etk/Bmx	X F5	
BRDG1	26228	1	STAB1	4q13.2	Brdg1	56792	STAP-1, A1586015	5 E1	
BRK	5753	1	PTK6	20q13.3	Ptk6	20459	BRK, Sik, tks, Tksk	2 H4	2 110.0 cM
BTk	695	1	AT, ATK, BPK, XLA, IMD1, AGMX1, PSCTK1	Xq21.33-q22	Btk	12229	xid, A1528679	X E3	X 51.0 cM
CB2L	867	1	CB2L, c-CBL, RNF55, Cas-Br-M	11q23.3	Cbl	12402	cbl, Cbl-2, c-Cbl, 4732447J05Rik	9 A5.2	9 26.0 cM
CBL	868	1	RNF55	11q23.3	Cblb	208650		16 A1	
CBL2	23624	1	CBL-3, CBL-SL, RNF57	19q13.2	Cblc	80794	CB3, 231007612Rik, 2310079L19Rik	7 A2	
CHN1	1123	1	CHN, ARHGAP2, RHOGAP2, n-chimerin, chimerin	2q31-q32.1	Chn1	108699	1700026N20Rik, 1700112L09Rik, 2900046J01Rik, ARHGAP2	2 C3	
CHN2	1124	1	ARHGAP3, RHOGAP3, beta chimerin, chimerin 2	7p15.3	Chn2	69993	1700026N20Rik, Chimerin (chimaerin) 2, Bch, ARHGAP3	6 B3	
OSH	1154	1	CIS, G18, SOCS, CIS-1	3p21.3	Gish	12700	Cis, F17, F23, CIS1	9 F1	9 59.0 cM
CRK	1398	1	CRKII	17p13.3	Crk	12928	Crko, Crk-I, Crk-II, Crk-3, Crkol, CrkIII, Crk-III	11 A-D	11 44.15 cM
CKL	1399	1	Csk-like	22q11.21	Crkl	13929	Crkol, 1110025F07Rik	16 A3	
CSK	1445	1	CYL	15q23-q25	Csk	12988		9 B	9 32.0 cM
DAPP1	27071	1	BAM32, DKFZp667E0716	4q25-q27	Dapp1	26377	Bam32	3 G3	
FER	2241	1	TYK3, c-FER, p94-FER	5q21	Fert2	14158	Fer, Fert, C33004K01Rik	17 E1.1	11 46.0 cM
FES	2242	1	FPS, c-FES	15q26.1	Fes	14159	FPS, c-fes	7 D2	7 39.0 cM
FR	2268	1	FRK, c-fig, p55-c-fig	10p36.2-p36.1	Fgr	14191		4 D2.3	4 69.6 cM
FRK	2444	1	GTK, RAK, PTK5	6q21-q22.3	Frk	14302	BSK, GTK, RAK, BSK/YTK	10 B1	
FYN	2534	1	SLK, SYN, MGC45350	6q21	Fyn	14360		10 B1	10 25.0 cM
GRAP	10750	1	MGC64880	17p11.2	Grap	71520	8430435N19Rik	11 B2	
GADS	9402	1	P36, GRAP2, GRID, GRPL, GrbX, Mona, GRB2L, GRB3, GR40, GRAP-2	22q13.2	Mona	17444	GRID, Gads	15 E2	
GRB2	2885	1	ASH, Grb3-3, EGRFRP-GRB2	17q24-q25	Grb2	14784	Ash	11 E2	11 75.0 cM
GRB7	2886	1		17q12	Grb7	14786		11 D	11 57.0 cM
GRB10	2887	1	RSS, IRBP, MEG1, GRB-IR, KIAA0207	7p12-p11.2	Grb10	14783	Meg1, 5730571D09Rik, 5730571D09Rik	11 A1	11 8.0 cM
GRB14	2888	1		2q22-q24	Grb14	50915		2 C1.3	
HCK	3055	1	JTK9	20q11-q12	Hck	15162	Bmk, Hck-1, MGC18625	2 H1	2 86.0 cM
HSH2D	84941	1	FLJ14866, HSH2, ALX	19p13.11	Hsh2d	209488	Alx, Hsh2	8 B3.3	
ITK	3702	1	EMT, LYK, PSCTK2	5q31-q32	Itk	16428	Emt, Tsk, Tcsk	11 B1.1	11 22.0 cM
JAK1	3716	1	JAK1A, JAK1B, JAK-1	1p32.3-p31.3	Jak1	16451	MGC37919, 1310039L05Rik	4 C6	4 46.3 cM
JAK2	3717	1	JAK2	9q24.3	Jak2	16452	Fd17, A1504024	19 C1	19 24.0 cM
JAK3	3718	1	JAK-3, JAKL, LJAK, L-JAK	19p13.1	Jak3	16453		8 B3.3	8 33.0 cM
LCK	3932	1	LSK	10p34.3	Lck	16818	Hck-3, p56	4 D2.2	4 59.0 cM
LNK	10019	1		12q24	Lnk	16923		5 F	5 65.0 cM
LYN	4067	1	JTK8	8q13	Lyn	17096	Hck-2	4 A1	4 0.0 cM
MATK	4145	1	LSK, CHK, CTK, HYL, HHYTK, MGC1708, MGC2101, DKFZp434N1212	19p13.3	Matk	17179	CHK, HYL, Ntk	10 C1	10 43.0 cM
MIST	116449	1	CLNK	4p16.1	Clnk	27278	MIST	5 B3	
NCK1	4690	1	NCK, NCKalpha, MGC12668	3q21	Nck1	17973	Nck	9 E4	
NCK2	8440	1	GRB4, NCKbeta, NCK-2	2q12	Nck2	17974	Grb4, NCKbeta	1 C1.1	
PIK3R1	5295	2	P85A, PIK3R1, GRB1	5q13.08	PIK3R1	18708	PI3K, p50alpha, p55alpha, p85alpha, C53005K14	13 D1	13 50.0 cM
PIK3R2	5296	2	P85B, PIK3R2	19q13.2-q13.4	PIK3R2	18709		13 D1	13 33.5 cM
PIK3R3	8503	2	P85G, PIK3R3, p55-GAMMA	1p34.1	PIK3R3	18710	p55Pik	2 H2	
PLCG1	5335	2	PLC1, PLC14B, PLC-II	20q12-q13.1	PLcg1	18803	Plc-1, Plcg-1, Plc-gamma1, Cded	8 E1	8 29.0 cM
PLCG2	5336	2	PLC-IV	16q24.1	PLcg2	234779	Plcg-2, MGC38590	8 E1	
PTPN11	5781	2	CFC, NS1, SHP2, SHP-2, BPTP3, PTP2C, PTP-1D, SH-PTP2, SH-PTP3, MGC14433, PRO1847	12q24	Ptpn11	19247	Syp, Shp2, PTP1D, PTP2C, SAP-2, SHP-2, SH-PTP2, SH-PTP3, 270008A17Rik	5 F	
PTPN6	5777	2	HCP, HCPH, SHP-1, HPTP1C, PTP-1C, SHP-1L, SH-PTP1	12p13	Ptpn6	15170	me, hcp, HcpH, Ptp1C, SHP-1, motheaten	6 F3	6 60.22 cM
RASA1	5921	2	RASA, GAP, RASA, RASGAP, p120GAP, PKWS, CMAVM	5q13.3	Rasa1	218397	Gap, Rasa, RasGAP, MGC7759	13 C3	
RIN1	9610	1		11q13.2	Rin1	225870		19 A	
RIN2	54453	1	RASSF4	20p11.22	Rin2	74030	RASSF4, 2010003K16Rik, 4632403N06Rik	2 G1	
RIN3	79890	1	FLJ11700, FLJ22439, DKFZp762H1613	14q32.12	Rin3	217835	643050K07	12 E	
SH2B	25970	1	SH2-B, DKFZP547G1110	16p11.2	Sh2b	20399	Irp, SH2-B, SH2-Bb	7 F3	7 61.0 cM
SH2D1A	4068	1	DSSH, LYP, SAP, XLP, EBVS, IMD5, XLPD, MTCPI	Xq25-q26	Sh2d1a	20400	SAP	X A5	
SH2D1B	117157	1	EAT2, EAT-2	10q3.3	EAT-2	26904		1 H2	
SH2D1C*	N/A		N/A		Sh2d1c	545378	EAT-2B	1 H3	
SH2D2A	9047	1	VRAP, TSAD, TSAD, F2771	1q21	Sh2d2a	27371	Lad, RIBP, Ribp, TSAD	3 F1	3 42.6 cM
SH2D3A	10045	1	NSP1	19p13.3	N/A	N/A	N/A	N/A	N/A
SH2D3C	10044	1	NSP3, CHAT, PR034088	9q34.11	Sh2d3c	27387	Chat, Nsp3, Shep1	2 B	
SH2D4A	33898	1	SH2A, FLJ20967	8q21.2	Sh2d4a	72281	Z210402M20Rik, SH2A	8 C1	
SH2D4B	387694	1	FLJ1984, CAI14998	10q21.1	Sh2d4b	328381	A430109M18Rik	14 B	
SH2D5	400745	1	LOC400745	1p36.12	SH2D5	230863	BC036961	4 D3	
SH3BP2	6452	1	CRPM, RES4-23, CRBM	4p16.3	SH3bp2	24055	3BP2	5 B1	
SHB	6461	1	RP11-CJ10.8	9q12-p11	Shb	230126		4 B1	
SHC1	6464	1	SHC, SHCA, SHC-1, p52SHC, p66SHC, FLJ26504	10q11.2	Shc1	20416	Shc, p66, ShcA	3 F1	3 45.0 cM
SHC2	25759	1	SLI, SCK, SHCB	19p13.3	Shc2	216148	SCK, Sli, ShcB, 6720466E06	10 C1	10 42.0 cM
SHC3	53358	1	NSHC, SHCC, N-Shc, Rai	9q22.1-q22.2	Shc3	20418	Rai, ShcC, N-Shc	13 A5	13 29.0 cM
SHC4	399694	1	MGC34023, RaLP, SHCD	15q21.1-q21.2	Shc4	271849	RaLP, Gm685, 9930029B02Rik, 6230417E10Rik	2 E5	
SHD	56961	1	LOC5961	19p13.3	Shd	20420		17 C	
SHF	126669	1	LOC126669	10q21.3	Shf	214547	LOC214547, 9430022A14	2 F1	
SHFP1	3635	1	LOC90525, hypothetical protein BC007586	15q21.1	Shfp	435684	Shf, SHB like adaptor, LOC435684	3 F1	
SHFP2	3636	1	INPP5D, HKC, MGC104855, SHIP, SIP-145, hp51CN	2q36-q37	Inpp5d	16331	SHIP, 145Kda, s-SHIP	1 C5	1 57.0 cM
SLAP	6503	1	SLA1, SLAP1, SLA	11q23	Inpp11	16332	51C, SHP2	7 E1	
SLAP2	84174	1	SLAP-2, SLA-2, FLJ21992, MGC49845, C20orf156	8q22.3-qter	Sla	20491	Slap, Slap-1	15 D2	15 37.5 cM
SLNK	284948	1	LOC284948, B cell linker protein, SH2 linker protein related to BLNK	20q11.23	Slnk	77799	SLAP2, SLAP-2, A930009E21Rik	2 H1	
SLP76	3937	1	SLP-76, LCP2	5q33.1-qter	Lcp2	16822	SLP-76	11 A4	
SOC51	8651	1	JAB, CIS1, SSI1, TIPS, CISH1, Gsh1, SSI-1, SOCS-1	16p13.13	Socs1	12703	JAB, Cish1, Cish7, SOCS1, SSI-1	16 A1	
SOC52	8653	1	CIS2, SSI2, CISH2, SSI-2, SOCS-2, STAT12	12q	Socs2	216233	hp, JAB, CIS2, Cish2, SSI-2, SOCS-2, 8030460M17	10 C2	10 52.0 cM
SOC53	9021	1	CIS3, CISH3, SSI-3, SOCS-3, MGC71791	17q25.3	Socs3	12702	CIS3, Cish3, EF-10, SSI-3, SOCS-3	11 E2	
SOC54	122809	1	SOC57, CIS4, STAT4, SSI4, DKFZp686J1568	14q22.2	Socs4	67296	SOC57, 3110032M18Rik	14 B	
SOC55	9655	1	CIS6, CISH6, GSH5, SOCS-5, KIAA0671	2p21	Socs5	56468	Cish5, SOCS-5, 1810018L08Rik	17 E4	
SOC56	9306	1	CIS4, SSI4, CISH4, SOCS4, STAT4, STAT4, STAT14, HSPC060	18q22.2	Socs6	54607	CIS4, CIS4, SSI4, CISH4, STAT4, STAT4, SOCS-4, STAT4, HSPC060, 3830401B18Rik	18 E4	
SOC57	30837	1	NAP4, NAP-4, SOCS4, SOCS-7	17q12	Socs7	192157	Nap4, 2310063P06Rik	11 D	
SRC	6714	1	ASV, SRC1, c-src, p60-Src	20q12-q13	Src	20779		2 H4	2 89.0 cM
Srms	6725	1	Srm, C20orf148, dj697K14.1	20q13.33	Srms	20811	srm, A230069J08Rik	2 H4	2 102.0 cM
STAT1	6772	1	ISGF-3, STAT1B1	2q32.2	Stat1	20846	2010005J02Rik	1 C1.1	1 25.9 cM
STAT2	6773	1	P113, ISGF-3, STAT113, MGC59816	12q13.13	Stat2	20847	16000106078Rik	10 D3	10 70.0 cM
STAT3	6774	1	APRF, FLJ20882, MGC16063	17q21.31	Stat3	20848	Aprf, 1110034C02Rik	11 D	11 60.5 cM
STAT4	6775	1		2q32.2-q32.3	Stat4	20849		1 C1.1	1 25.9 cM
STAT5A	6776	1	MGF, STAT5	17q11.2	Stat5a	20850	Stat5	11 D	11 60.5 cM
STAT5B	6777	1	STAT5	17q11.2	Stat5b	20851		11 D	11 60.5 cM
STAT6	6778	1	STAT6C, STAT6C, D12S1644, IL-4-STAT	12q13.3	Stat6	20852		10 D3	10 70.0 cM
SUP16H	6830	1	SPT6, SPT6H, emb-5, KIAA0162	17q11.2	Supt6h	20926	SPT6, mKIAA0162	11 B5	11 44.91 cM
SYK	6850	2	PSCTK4	9q22	Syk	20963		13 B-C2	13 37.0 cM
TEC	7006	1	PSCTK4	4p12	Tec	21682		5 C3.2	5 41.0 cM
TENC1	23371	1	C1-TEN, KIAA1075, C1TEN, TNS2	12q13.13	Tenc1	209039	C1-ten	15 F2	
TNS1	2145	1	TNS1, TENSIN, PRO0929, DKFZP434G162.2						