Supplementary Table 1. List of identified human caspase-3 cleavage sites. Columns from left to right contain: Swissprot accession number, start and end position of the identified peptide in the protein sequence, the identified (neo-N-terminal) peptide sequence, the residues surrounding the cleavage site from P4 to P4', number of fragmentation spectra by which the peptide was identified, all different light/heavy ratios by which the peptide was quantified, the MASCOT score and threshold (99% confidence) of the best scoring fragmentation spectrum, the protein name, possible protein isoforms in which the same peptide sequence can be found.

accession	start	end	neo-N-terminal peptide sequence	cleavage site	# spectra	different light/heavy ratios	score/threshold	protein name	isoforms
O00232	20	27	AcD3-YSATVDQR-COOH	MEVD↓YSAT	1	1.01147	48/47	26S proteasome non-ATPase regulatory subunit 12	
Q13442	25	35	AcD3-AQLQAEKQKAR-COOH	EEID↓AQLQ	2	0.98693	84/47	28 kDa heat- and acid-stable phosphoprotein	
P60709	245	254	AcD3-GQVITIGNER-COOH	ELPD↓GQVI	62	0.97417/1.12689/0.95977/0.9809/1.09866	92/48	Actin, cytoplasmic 1	A5A3E0 (945-954), P62736 (247-256), P63261 (245-254), P63267 (246-255), P68032 (247-256), P68133 (247-256), Q562R1 (246-255), Q6S8J3 (945-954), Q9BYX7 (245-254)
P63261	12	28	AcD3-NGSGMCKAGFAGDDAPR-COOH	LVID↓NGSG	16	1.03753/1.08073/1.07224/0.95333/1.06298/1.04297/1.05553/1.08642	92/42	Actin, cytoplasmic 2	A5A3E0 (712-728), P60709 (12-28), Q6S8J3 (712-728)
P63261	52	62	AcD3-SYVGDEAQSKR-COOH	GQKD↓SYVG	2	0.95208	69/48	Actin, cytoplasmic 2	P60709 (52-62), P62736 (54-64), P63267 (53-63), P68032 (54-64), P68133 (54-64)
O96019	58	76	AcD3-GDKGKQGGPTYYIDTNALR-COOH	MEID↓GDKG	1	1.12421	88/49	Actin-like protein 6A	
O15511	30	47	AcD3-GGDGQAGPDEGEVDSCLR-COOH	DEED↓GGDG	1	1.13411	66/41	Actin-related protein 2/3 complex subunit 5	
P25705	160	169	AcD3-GKGPIGSKTR-COOH	NAID↓GKGP	2	1.25226	60/44	ATP synthase subunit alpha, mitochondrial	
Q92499	686	694	AcD3-GKVTYGQKR-COOH	DEFD↓GKVT	6	0.86982/0.89644/0.93342	65/47	ATP-dependent RNA helicase DDX1	
Q99439	142	152	AcD3-IGVKYSEKQER-COOH	SGVD↓IGVK	1	0.93789	49/48	Calponin-2	
Q9P2M7	174	188	AcD3-SLINKFDSQLGGQAR-COOH	SSVD↓SLIN	2	1.0573	72/48	Cingulin	
P09496	77	102	AcD3-GVMNGEYYQESNGPTDSYAAISQVDR-COOH	DAVD↓GVMN	1	1.16353	126/41	Clathrin light chain A	
Q9UEE9	41	53	AcD3-GEEQTQKTQGKKR-COOH	DEVD↓GEEQ	5	0.91895/0.89471/0.91286	91/48	Craniofacial development protein 1	
Q9BQC3	254	263	AcD3-TGKTQDEGAR-COOH	CCPD↓TGKT	1	0.9506	50/48	Diphthamide biosynthesis protein 2	
Q9P265	61	68	AcD3-SAVQKELR-COOH	QETD↓SAVQ	1	0.86515	74/46	Disco-interacting protein 2 homolog B	
Q9Y2H0	721	731	AcD3-ANDSSCKSSER-COOH	DTQD↓ANDS	1	0.9755	50/43	Disks large-associated protein 4	
P33992	14	27	AcD3-SFGGDAQADEGQAR-COOH	FYSD↓SFGG	2	1.09287	110/45	DNA replication licensing factor MCM5	
P78527	2714	2722	AcD3-NKVKGAAGR-COOH	DEVD↓NKVK	2	0.96877	74/45	DNA-dependent protein kinase catalytic subunit	
O60216	129	139	AcD3-VAQQFSLNQSR-COOH	DDID↓VAQQ	2	0.90646	65/48	Double-strand-break repair protein rad21 homolog	
Q16643	168	174	AcD3-AAVEMKR-COOH	QKTD↓AAVE	1	1.1434	49/48	Drebrin	
P49792	2798	2822	AcD3-SITKSISSPSVSSETMDKPVDLSTR-COOH	EEPD↓SITK	1	1.34393	65/48	E3 SUMO-protein ligase RanBP2	
Q00987	362	371	AcD3-CKKTIVNDSR-COOH	DVPD↓CKKT	1	0.81649	69/48	E3 ubiquitin-protein ligase Mdm2	
P23588	532	545	AcD3-GMNAPKGQTGNSSR-COOH	NKVD↓GMNA	11	0.96943/0.97508/0.9448/0.87468	77/48	Eukaryotic translation initiation factor 4B	
Q15056	94	109	AcD3-SLKEALTYDGALLGDR-COOH	DEVD↓SLKE	6	0.93709/0.9915/0.94882	87/48	Eukaryotic translation initiation factor 4H	
Q96A65	935	948	AcD3-SQTGVGELTTQNTR-COOH	LLHR↓SQTG	1	0.66733	89/33	Exocyst complex component 4	
Q9P107	843	862	AcD3-GGGEVSSQGPEDSLLGTQSR-COOH	DTKD↓GGGE	1	1.29388	107/47	GEM-interacting protein	
P30419	73	88	AcD3-SAQDQPVKMNSLPAER-COOH	SETD↓SAQD	3	0.99156/0.92431	77/48	Glycylpeptide N-tetradecanoyltransferase 1	
Q9NX24	10	22	AcD3-GPEAQAEACSGER-COOH	ADPD↓GPEA	1	1.01371	64/43	H/ACA ribonucleoprotein complex subunit 2	
P14317	116	128	AcD3-AAKGFGGKYGVER-COOH	SQTD↓AAKG	3	1.01213/1.05769	76/48	Hematopoietic lineage cell-specific protein	
P14317	190	204	AcD3-YAKGFGGQYGIQKDR-COOH	SQRD↓YAKG	3	0.99229/1.08177	86/49	Hematopoietic lineage cell-specific protein	
Q9Y4L1	339	345	AcD3-FKAKVTR-COOH	DDVD↓FKAK	1	0.88617	45/43	Hypoxia up-regulated protein 1	
Q9BWU0	538	554	AcD3-AFMSEMKSGSTLDGVSR-COOH	DSLD↓AFMS	2	0.9324	89/46	Kanadaptin	
P50851	1757	1771	AcD3-SAQASDMGGESPGSR-COOH	SSVD↓SAQA	2	1.07911	76/42	Lipopolysaccharide-responsive and beige-like anchor protein	
Q13136	837	856	AcD3-NSSQDALGLSKLGGQAEKNR-COOH	SETD↓NSSQ	2	1.11652	109/48	Liprin-alpha-1	
Q15046	13	25	AcD3-GSEPKLSKNELKR-COOH	VKVD↓GSEP	2	1.18481	62/46	Lysyl-tRNA synthetase	
Q9Y5V3	223	241	AcD3-GATAQTSADGSQAQNLESR-COOH	SEPD↓GATA	2	1.09483	110/46	Melanoma-associated antigen D1	
Q9Y5V3	679	687	AcD3-AAAAEAEAR-COOH	DALD↓AAAA	2	0.97795	67/48	Melanoma-associated antigen D1	
Q9Y3A3	35	48	AcD3-STLAVQQYIQQNIR-COOH	DEMD↓STLA	1	0.99352	62/48	Mps one binder kinase activator-like 3	
P22234	27	46	AcD3-SPGKVLLQSKDQITAGNAAR-COOH	ELLD↓SPGK	4	1.01387/1.03282/1.1137/1.29241	104/46	Multifunctional protein ADE2	
P35580	1161	1169	AcD3-TTAAQQELR-COOH	DTLD↓TTAA	1	1.16291	59/49	Myosin-10	
P35579	1154	1162	AcD3-STAAQQELR-COOH	DTLD↓STAA	5	1.0046/1.14074/0.9207	80/48	Myosin-9	
P49321	524	531	AcD3-LAKIIFKR-COOH	DMLD↓LAKI	2	0.93702	52/32	Nuclear autoantigenic sperm protein	
Q12968	194	202	AcD3-SELNEAAAR-COOH	DDVD↓SELN	1	1.07658	64/48	Nuclear factor of activated T-cells, cytoplasmic 3	
Q9BRP8	144	162	AcD3-SAATTEKAKKIKNLKKKLR-COOH	DQPD↓SAAT	1	1.18136	62/29	Partner of Y14 and mago	
Q9BRP8	163	170	AcD3-QVEELQQR-COOH	KKLR↓QVEE	2	1.13764	42/34	Partner of Y14 and mago	
P26599	173	185	AcD3-AGMAMAGQSPVLR-COOH	AAVD↓AGMA	2	1.09887	68/48	Polypyrimidine tract-binding protein 1	
O94913	414	423	AcD3-GKDDDVKEKR-COOH	DKTD↓GKDD	1	1.04491	52/48	Pre-mRNA cleavage complex 2 protein Pcf11	
Q96IZ0	132	145	AcD3-GVPEKGKSSGPSAR-COOH	EEPD↓GVPE	1	1.02426	51/48	PRKC apoptosis WT1 regulator protein	
Q9H875	98	112	AcD3-AMAEKQKLDAEFQKR-COOH	DYMD↓AMAE	2	0.97457	81/48	PRKR-interacting protein 1	
Q7Z5W3	9	22	AcD3-GGSVKETAAEEESR-COOH	TELD↓GGSV	1	0.87022	72/48	Probable methyltransferase BCDIN3D	
Q9HCF4	274	295	AcD3-AVAEPANAVKGAGKEMKEKTQR-COOH	MAVD↓AVAE	1	1.20788	62/47	Protein ALO17	
Q8N9T8	313	321	AcD3-SASVKTYPR-COOH	EEPD↓SASV	1	0.68631	54/48	Protein KRI1 homolog	
P06454	8	31	AcD3-TSSEITTKDLKEKKEVVEEAENGR-COOH	AAVD↓TSSE	3	1.02533/1.05131	87/48	Prothymosin alpha	
Q8N806	337	353	AcD3-TVLAYENKGKIAQATDR-COOH	DEYD↓TVLA	3	0.97449/0.88033	89/48	Putative E3 ubiquitin-protein ligase UBR7	
Q99575	775	785	AcD3-AGCQESAGPER-COOH	EVMD↓AGCQ	1	1.06151	54/43	Ribonucleases P/MRP protein subunit POP1	
Q5W0B1	434	449	AcD3-SSNVSNKDSSEDDISR-COOH	DFCD↓SSNV	2	1.09381	83/45	RING finger protein 219	
P62877	9	21	AcD3-TPSGTNSGAGKKR-COOH	MDVD↓TPSG	3	1.11363/1.07372	60/48	RING-box protein 1	
Q08AF3	18	28	AcD3-AGKVTLGTQQR-COOH	CVVD↓AGKV	5	1.00685/1.11198/1.06368	79/46	Schlafen family member 5	

Q9UQ35	1561	1570	AcD3-SSPDSKAKTR-COOH	SESD↓SSPD	1	0.96906	50/48	Serine/arginine repetitive matrix protein 2	
Q13177	213	237	AcD3-GAAKSLDKQKKKTKMTDEEIMEKLR-COOH	SHVD↓GAAK	1	1.10105	53/45	Serine/threonine-protein kinase PAK 2	
P61011	392	402	AcD3-GAKVFSKQPGR-COOH	DSTD↓GAKV	1	1.18171	48/46	Signal recognition particle 54 kDa protein	
P42224	726	736	AcD3-MSPEEFDEVSR-COOH	NLLP↓MSPE	2	1.04296	55/42	Signal transducer and activator of transcription 1-alpha/beta	
O60232	56	66	AcD3-CGTILLQDKQR-COOH	TCAD↓CGTI	2	0.8631	78/48	Sjoegren syndrome/scleroderma autoantigen 1	
P26368	129	146	AcD3-GLAVTPTPVPVVGSQMTR-COOH	MTPD↓GLAV	4	1.11939/1.08754/0.93336	86/47	Splicing factor U2AF 65 kDa subunit	
Q13148	90	98	AcD3-ASSAVKVKR-COOH	DETD↓ASSA	2	1.01304	46/42	TAR DNA-binding protein 43	
P50991	262	274	AcD3-NQIVVSDYAQMDR-COOH	TDMD↓NQIV	2	0.91589	69/47	T-complex protein 1 subunit delta	
P52888	14	25	AcD3-AASPCSVVNDLR-COOH	DMAD↓AASP	1	1.07008	67/48	Thimet oligopeptidase	
Q13263	689	702	AcD3-STGVVAKLSPANQR-COOH	DGAD↓STGV	2	1.10327/1.0394	76/46	Transcription intermediary factor 1-beta	
Q13428	1243	1275	AcD3-GKQEAKPQQAAGMLSPKTGGKEAASGTTPQKSR-COOH	DDPD↓GKQE	1	1.20964	54/47	Treacle protein	
P07437	115	121	AcD3-SVLDVVR-COOH	ELVD↓SVLD	2	1.01557	62/47	Tubulin beta chain	P68371 (115-121), Q13509 (115-121), Q13885 (115-121), Q9BVA1 (115-121)
P62310	7	22	AcD3-QQQTTNTVEEPLDLIR-COOH	DDVD↓QQQT	3	1.11267/1.09235	86/49	U6 snRNA-associated Sm-like protein LSm3	
O94782	42	53	AcD3-SQENEEKASEYR-COOH	DFTD↓SQEN	1	1.2651	69/45	Ubiquitin carboxyl-terminal hydrolase 1	
Q96N21	193	208	AcD3-SGPSSQNSSQNSDLSR-COOH	DELD↓SGPS	2	1.26504	87/45	Uncharacterized protein C17orf56	
P08670	86	100	AcD3-FSLADAINTEFKNTR-COOH	DSVD↓FSLA	9	1.16871/1.26176/1.16277/1.26869/1.20036	106/49	Vimentin	
P08670	332	342	AcD3-ALKGTNESLER-COOH	CEVD↓ALKG	2	1.20027	75/48	Vimentin	
O60293	336	349	AcD3-SSQGLQDKEQNLTR-COOH	DTTD↓SSQG	2	0.9083	90/48	Zinc finger C3H1 domain-containing protein	