

Supplementary Table 2. List of differentially regulated proteins identified by the 2-DE-based approach after platelet activation with CRP (10 µg/ml, 90 sec).

Protein Name	AN ^{a)}	Mass, Da	pI	Gel ^{b)}	Fold ^{c)}	Protein Function ^{d)}
Signaling proteins						
PDZ and LIM domain protein 1 (LIM domain protein CLP-36)	O00151	35246	6.87	6-11	B	Acts as an adapter that recruits proteins to the cytoskeleton.
		13145	5.78	4-7	B	
		12417	6.29	4-7	B	
		12155	6.35	4-7	B	
ADAP [Adhesion- and degranulation-promoting adapter protein] (SLAP-130, FYB)	O15117	16914	5.33	4-7	B	Adapter protein with a SH3 domain. Tyrosine phosphorylated in activated platelets. Binds to SKAP-Hom and SLP-76.
RGS10 [Regulator of G-protein signaling 10]	O43665	21439	5.37	4-7	5.31	Inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits.
		20366	5.64	4-7	CRP	
		21205	5.64	4-7	CRP	
		20160	6.88	6-11	B	
Dok-2 [Downstream of tyrosine kinases]	O60496	51384	5.46	4-7	B	Adapter downstream of tyrosine kinases. Constitutively tyrosine phosphorylated.
SKAP-HOM (SKAP55 HOMOLOGUE) [Src kinase-associated phosphoprotein 55-related protein]	O75563	36971	4.67	4-7	B	Adapter protein. Contains one SH3 domain. Associated with SLAP-130 in platelets.
Gads [Grb2-related adaptor protein 2]	O75791	39101	6.29	6-11	B	Interacts with SLP-76 to regulate NF-AT activation. Binds to tyrosine-phosphorylated shc. Contains one SH2 and two SH3 domains.
		39305	5.92	6-11	CRP	

HLA class I histocompatibility antigen, A-2 alpha chain (Precursor) Or MHC class I HLA-A protein	P01892 Or P79603	43090	5.99	4-7	B	Involved in the presentation of foreign antigens to the immune system. Type I membrane protein.
Heat shock 27 kDa protein	P04792	28188 27468 26798 26458	4.96 5.21 5.54 5.82	4-7 4-7 4-7 4-7	CRP 2.81 B -3.43	Substrate for p38 kinases. Involved in cytoskeletal regulation.
Pleckstrin	P08567	43704 43465 42940 42892 42782 42782 42614 42495 42495 42495 42495 42377	5.93 5.81 6.34 7.04 7.09 7.21 6.12 6.86 6.65 6.73 7.15 6.88	4-7 4-7 4-7 6-11 6-11 6-11 6-11 6-11 6-11 6-11 6-11 6-11	CRP CRP 3.23 -2.22 B B -2.08 B -2.97 B B B	Major protein kinase C substrate of platelets.
c-Src	P12931	58294 56094 55544 55467 50832	6.01 6.51 5.92 6.48 5.99	4-7 4-7 6-11 6-11 4-7	-2.16 B CRP B B	SH2 and SH3 domains. Multi-functional tyrosine kinase. Activated by GPCRs and TKRs.
p21-Rac1 Or p21-Rac2	P6300 Or P15153	21965	7.36	6-11	B	Plasma membrane-associated small GTPase.
Annexin VII	P20073	44532	5.99	4-7	B	Calcium/phospholipid-binding protein.
GRB2 adapter protein	P29354	27564	5.46	4-7	CRP	Associates with tyrosine-phosphorylated proteins in the GPVI signaling cascade. Contains one SH2 and two SH3 domains.
RKIP [Raf kinase inhibitor protein]	P30086	21965	7.36	6-11	B	Regulates Raf-1.

Crk-like protein	P46109	39222	5.84	4-7	CRP	Interacts with DOCK2. Contains one SH2 and two SH3 domains.
Rho GDP-dissociation inhibitor 2	P52566	16967	5.77	4-7	-2.2	Regulates the GDP/GTP exchange reaction of the Rho proteins.
Adenylyl cyclase-associated protein 1 (CAP1)	Q01518	53924 20756 18706	7.07 5.95 5.91	6-11 4-7 4-7	2.38 B B	Adapter involved in Ras/cAMP-dependent signal transduction.
MEK1	Q02750	44352	5.99	4-7	B	Activates ERK1 and ERK2 MAP kinases.
Integrin-linked protein kinase 1 (ILK-1)	Q13418	49710	7.22	6-11	2.54	Receptor-proximal protein kinase regulating integrin-mediated signal transduction
Ras suppressor protein 1	Q15404	27474	7.22	6-11	CRP	Inhibits Ras signaling
p38 α MAP kinase	Q16539	39865	5.41	4-7	B	Serine-threonine kinase. Activated by GPCRs and TKRs in platelets: substrates include cPLA2.
Osteoclast stimulating factor 1 ^{e)}	Q92882	26798	5.54	4-7	B	Binds to c-Src. Contains one SH3 domain.
Rho GTPase activating protein 18 (MacGAP)	Q96S64	93423	5.95	4-7	B	Rho GTPase-activating protein. Transduces signals from plasma-membrane receptors and controls cell adhesion, motility and shape by actin cytoskeleton formation.
Dok-1 [Downstream of tyrosine kinases-1] ^{e)}	Q99704	59479	5.94	4-7	B	Adapter downstream of tyrosine kinases. Constitutively tyrosine phosphorylated.
RGS18 [Regulator of G-protein signaling 18]	Q9NS28	27681 27732	6.93 5.91	6-11 6-11	B CRP	Inhibits signal transduction by increasing the GTPase

						activity of G protein alpha subunits.
Drebrin F (HIP-55)	Q9UJU6	30391 17844	5.79 5.29	4-7 4-7	B B	Actin-binding adapter protein. Contains an N-terminal actin binding domain and SH3 domain.
Cytoskeletal						
Gelsolin precursor	P06396	101861 101709	5.53 5.60	4-7 4-7	B B	Actin capping protein.
Vinculin	P18206	105481 103578	5.30 5.34	4-7 4-7	B -3.08	Involved in the attachment of actin-based microfilaments to the plasma membrane.
Myosin regulatory light chain 2, nonsarcomeric	P19105	19996 18925 18856	4.42 4.52 4.59	4-7 4-7 4-7	CRP CRP 2.17	Plays an important role in cytoskeletal regulation.
Filamin A	P21333	116946 103578 102951 101861 101709 99269	5.98 5.44 5.49 5.53 5.60 5.63	4-7 4-7 4-7 4-7 4-7 4-7	B B B B B B	Anchors various transmembrane proteins to the actin cytoskeleton and serves as a scaffold for a wide range of cytoplasmic signaling proteins.
Cofilin, non-muscle isoform	P23528	18099	7.60	6-11	CRP	Control of actin polymerization.
Myosin regulatory light chain 2, smooth muscle isoform	P24844	20667	4.60	4-7	2.67	Plays an important role in cytoskeletal regulation.
Transgelin 2 (SM22-alpha homolog)	P37802	21965 21965 21864 18764	7.36 7.43 7.69 5.44	6-11 6-11 6-11 4-7	B B 3.09 B	Actin-binding protein.
Coronin 1C	Q9ULV4	57779	6.61	6-11	CRP	Actin-binding protein.

A6 related protein	Q9Y3F5	16806	5.54	4-7	-2.72	Control of actin polymerisation.
Talin 1	Q9Y490	223886	5.38	4-7	B	Involved in connections of major cytoskeletal structures to the plasma membrane. Binds to vinculin and integrins.
		219847	5.40	4-7	-3.13	
		40735	5.08	4-7	B	
		37566	5.01	4-7	-2.23	
Protein processing						
26S proteasome non-ATPase regulatory subunit 11	O00231	44352	5.99	4-7	B	Proteasome component.
Proteasome subunit alpha type 7	O14818	26137	8.44	6-11	B	Proteasome pathway.
Peptidyl-prolyl cis-trans isomerase A	P05092	17133	7.37	6-11	2.61	Molecular Chaperone
		16760	7.55	6-11	-3.83	
Proteasome subunit alpha type 4	P25789	27474	7.22	6-11	CRP	Proteasome pathway.
Ubiquitin-conjugating enzyme E2-25kDa	P27924	24851	5.07	4-7	B	Ubiquitin pathway.
Seryl-tRNA synthetase	P49591	58176	5.88	4-7	CRP	Involved in protein biosynthesis.
Peptide methionine sulfoxide reductase ^{e)}	Q9UJ68	24170	6.87	6-11	B	Has an important function as a repair enzyme for proteins that have been inactivated by oxidation.
Ubiquitin-fold modifier conjugating enzyme 1 ^{e)}	Q9Y3C8	20245	6.57	4-7	B	Ubiquitin pathway.
Metabolic enzymes						
L-lactate dehydrogenase A chain	P00338	32433	7.52	6-11	CRP	Anaerobic glycolysis.
		32433	7.62	6-11	CRP	
		31941	7.56	6-11	CRP	
Glyceraldehyde 3-phosphate dehydrogenase, liver	P04406	35745	7.29	6-11	CRP	Second phase of glycolysis; first step.
		25620	7.30	6-11	CRP	
Glucose-6-phosphate 1-dehydrogenase	P11413	56094	6.51	4-7	B	Pentose phosphate pathway; first step.

Phosphoglucomutase	P36871	57779	6.61	6-11	CRP	Enzyme that participates in both the synthesis and break down of glucose.
Fructosamine-3-kinase	Q9H479	35246	6.87	6-11	B	May initiate a process leading to the deglycation of fructoselysine and of glycosylated proteins.
Secreted						
Coagulation factor XIII A chain precursor	P00488	101709 101861 99269	5.60 5.53 5.63	4-7 4-7 4-7	B B B	Coagulation factor. Secreted by α -granules in platelets.
TGF- β 1 [Transforming growth factor β 1]	P01137	39865	5.41	4-7	B	Secreted protein that controls proliferation, and differentiation. Secreted by platelet α -granules.
Fibrinogen α/α -E chain precursor	P02671	62215	7.07	6-11	CRP	Coagulation factor. Secreted by α -granules in platelets.
Fibrinogen γ chain precursor	P02679	109393 108073	5.32 5.36	4-7 4-7	-2.51 B	Coagulation factor. Secreted by α -granules in platelets.
Thrombospondin 1 (precursor)	P07996	31435	5.38	4-7	B	Adhesive glycoprotein. Secreted by platelet α -granules.
Vesicle trafficking						
Syntaxin 11	O75558	29896	6.28	6-11	B	Regulates protein transport between late endosomes and the trans-golgi network.
Rab-11A Or Rab-11B	P24410 Or Q15907	20104	5.37	4-7	B	Small G protein implicated in vesicle trafficking.

Vacuolar protein sorting factor 4A ^{e)} Or Vacuolar sorting protein 4b ^{e)}	Q9UN37 Or O75351	56027	6.20	4-7	CRP	Involved in intracellular protein transport.
Miscellaneous						
N-acetylserotonin O-methyltransferase-like protein	O95671	73329	5.64	4-7	CRP	Unknown. Potential methyltransferase activity.
Glutathione peroxidase 1	P07203	24726	5.75	4-7	-2.52	Catalyses the reduction of hydroxyperoxides by glutathione.
Fumarate hydratase, mitochondrial precursor ^{e)}	P07954	45156	7.07	6-11	CRP	Tricarboxylic acid cycle. Mitochondrial
Leukocyte elastase inhibitor	P30740	43874	5.77	4-7	B	Serine proteinase inhibitor.
GMP reductase 1 [Guanosine monophosphate reductase 1] ^{e)}	P36959	37696	6.79	6-11	CRP	Maintains the intracellular balance of A and G nucleotides.
Adenylate kinase isoenzyme 2, mitochondrial	P54819	26819	7.51	6-11	CRP	ATP-AMP transphosphorylase. Essential for maintenance and cell growth. Mitochondrial.
Nucleosome assembly protein 1-like 1	P55209	49880	4.50	4-7	B	Nuclear protein involved in cell proliferation.
Peroxiredoxin 1	Q06830	22627	8.15	6-11	B	Regulation of intracellular concentrations of H ₂ O ₂ .
Multimerin 1 precursor	Q13201	26373	5.94	4-7	B	Carrier protein for platelet factor V/Va. May play a role in the storage and stabilization of factor V in platelets.
Dihydropyrimidinase related protein-2 ^{e)}	Q16555	57324	5.43	4-7	B	Dihydropyrimidinase activity.

Unc-112 related protein 2	Q86UX7	37756 15221	5.62 5.96	4-7 4-7	B B	Probably involved in cell adhesion. Contains one PH domain.
Breast cancer associated protein BRAP1 Or Bridging integrator-2	Q86VV0 Or Q9UKN4	26373 25955	5.94 5.80	4-7 4-7	B B	Implicated in cell survival and tumorigenesis.
Programmed cell death 6-interacting protein ^{e)}	Q8WUM4	89068	5.97	4-7	B	May play a role in the regulation of both apoptosis and cell proliferation.
Mps one binder kinase activator-like 1B (Mob1A) Or Mob4A protein	Q9H3T5 Or Q8IY23	26174 24449	5.63 5.97	4-7 4-7	CRP CRP	Possibly binds to a protein kinase involved in mitotic checkpoint regulation.
HSPC159 protein [Hematopoietic stem/progenitor cells 159 protein]	Q9P005	15361	5.45	4-7	-2.95	Galactoside-binding lectin.

^{a)}AN indicates SWISS-PROT accession number.

^{b)}2D gel where the protein feature is present.

^{c)}fold change (CRP versus basal), a negative value indicates that the feature is expressed to a higher extent in basal samples; B = Protein feature only present in basal gels, CRP = Feature only present in CRP gels.

^{d)}function either known or predicted by homology via SwissProt and NCBI.

^{e)}First time reported in platelets.