

Supplementary Table. The protein list of enriched or depleted biological processes in mammalian extracellular vesicles derived from SW480, B cell, and platelet.

GO ID	GO description	<i>P</i> -value			Proteins		
		SW480	B cell	Platelet	SW480	B cell	Platelet
8104	Protein localization	2.22E-16	1.75E-09	1.16E-11	SRP14, XPO1, GRPEL1, CHMP4B, CHMP5, RAB1B, EIF5A, SSR1, CTNNB1, FAM125A, RPL11, CUTA, SCAMP3, SCAMP2, MYO6, ACTN4, RAN, MYH9, BCAP31, KRT18, SEC61B, RAB18, SDCBP, AKAP7, SRP72, PDCD6IP, COL1A1, MRPL45, RAB10, CHMP2A, RAB7A, COPZ1, NAPA, ARF6, GIPC1, CALR, CSE1L, NPM1, TMED10, RAB8A, MYO1C, LIN7C, ITGA2, TOMM40, VCP, ARF1, PCNA, SPTBN1, NUTF2, COPA, CLTA, TLN1, RAB5B, PDIA3, AP1B1, TSG101, VPS37B, CLTC, CANX, CDC42, COPB2, AP2B1, COPB1, RAB6A, KDELR1, KPNB1, DNAJC19, STX4, RAB4A, RAB4B, NDUFA13, STXBP3, FLNB, FLNA, IPO7, CD81, IPO5, ARCN1, TOMM22, GNAS, COPG, COPE, BID, YWHAZ, NACA, AP1M2, EZR, TMED2, SNAP23, HSPA9, RAB2A, GDI1, GDI2, VTA1, YWHAB, YWHAE, HSP90B1, YWHAG, AP2A2, YWHAH, RPL23, ERBB2IP, AP2A1, BAX, RAB22A, YWHAQ, VPS28, SSR4	TLN1, RAB9A, RAB5B, CLTC, RAB1A, CDC42, RPL11, RAB6A, KPNB1, STX4, SCAMP2, ACTN4, RAN, STXBP3, MYH9, FLNA, RAB5A, SDCBP, GNAS, PDCD6IP, RAB10, RAB7A, YWHAZ, STX7, ARF6, NEDD8, RDX, CDC37, EZR, CSE1L, SNAP23, HSPA9, RAB2A, GDI2, RAB8A, RAB8B, YWHAB, YWHAE, LIN7A, YWHAG, HSP90B1, YWHAH, ARF1, VCP, RPL23, BAX, YWHAQ, PCNA, SPTBN1, NUTF2	COPA, TLN1, PDIA3, AP1B1, PDIA4, CLTC, CANX, TGFB1, RAB1A, COPB2, CDC42, APOB, AP2B1, COPB1, KPNB1, NSF, SCAMP2, ACTN4, LYN, MYH9, PRKCB, MAPK1, CD36, VAMP7, ARCN1, USO1, PDCD6IP, COPE, LCP2, BID, RAB7A, AP1M1, YWHAZ, STX7, NAPA, SNAP23, PPP3CA, STX11, HSPA9, FYB, GDI1, YWHAB, YWHAE, YWHAG, HSP90B1, YWHAH, VCP, AP2A1, YWHAQ, SPTBN1, HGS
15031	Protein transport	6.70E-16	3.72E-08	7.40E-13	SRP14, XPO1, GRPEL1, CHMP4B, CHMP5, EIF5A, RAB1B, SSR1, FAM125A, RPL11, SCAMP3, MYO6, SCAMP2, ACTN4, RAN, MYH9, BCAP31, SEC61B, KRT18, RAB18, SDCBP, PDCD6IP, COL1A1, SRP72, MRPL45, RAB10, CHMP2A, RAB7A, COPZ1, ARF6, GIPC1, NAPA, CALR, CSE1L, NPM1, TMED10, RAB8A, MYO1C, LIN7C, TOMM40, VCP, ARF1, PCNA, SPTBN1, NUTF2, COPA, CLTA, RAB5B, PDIA3, AP1B1, TSG101, VPS37B, CLTC, CANX, COPB2, AP2B1, COPB1, RAB6A, KDELR1, KPNB1, DNAJC19, STX4, RAB4A, RAB4B, NDUFA13, STXBP3, IPO7, IPO5, ARCN1, GNAS, TOMM22, COPG, COPE, BID, YWHAZ, AP1M2, NACA, TMED2, SNAP23, HSPA9, RAB2A, GDI1, GDI2, VTA1, YWHAB, YWHAE, HSP90B1, YWHAG, AP2A2, YWHAH, RPL23, ERBB2IP, AP2A1, RAB22A, YWHAQ, VPS28, SSR4	RAB7A, YWHAZ, RAB9A, STX7, RAB5B, ARF6, CLTC, RAB1A, CDC37, CSE1L, RPL11, RAB6A, SNAP23, KPNB1, HSPA9, RAB2A, GDI2, RAB8A, STX4, SCAMP2, RAB8B, ACTN4, RAN, YWHAB, STXBP3, MYH9, YWHAE, LIN7A, YWHAG, HSP90B1, YWHAH, RPL23, VCP, ARF1, YWHAQ, PCNA, RAB5A, SPTBN1, SDCBP, NUTF2, GNAS, PDCD6IP, RAB10	COPA, PDIA3, AP1B1, PDIA4, CLTC, CANX, TGFB1, RAB1A, COPB2, APOB, AP2B1, COPB1, KPNB1, NSF, SCAMP2, ACTN4, LYN, MYH9, PRKCB, MAPK1, CD36, VAMP7, ARCN1, USO1, PDCD6IP, COPE, LCP2, BID, RAB7A, AP1M1, YWHAZ, STX7, NAPA, SNAP23, PPP3CA, STX11, HSPA9, FYB, GDI1, YWHAB, YWHAE, YWHAG, HSP90B1, YWHAH, VCP, AP2A1, YWHAQ, SPTBN1, HGS
16192	Vesicle-mediated transport	4.82E-09	1.72E-07	6.54E-11	COPA, CLTA, HRAS, AP1B1, CHMP5, MARCKSL1, ATP5B, CLTC, CTNNB1, RTN3, COPB2, AP2B1, APP, GSN, COPB1, CAP1, RAB6A, KDELR1, FTL, SCAMP3, STX4, MYO6, SCAMP2, RAB4B, ATP6V1H, STXBP3, FLNA, BCAP31, NME2, KRT18, RAB18, NME1, VAMP8, ARCN1, VAMP3, VAMP2, COPG, COPE, RAB7A, YWHAZ, AP1M2, COPZ1, NAPA, ARF6, FTH1, SRC, KRAS, TMED2, ITGAV, RAC1, TMED10, SNAP23, EHD1, THBS1, HSPA8, RAB2A, RAB8A, GARS, LIN7C, NRAS, AP2A2, ARF1, TFRC, VCP, AP2A1, RAB22A, DNM2	RAB7A, YWHAZ, STX7, ATP5B, WASF2, ARF6, CLTC, RAB1A, SRC, AHSG, APOE, GSN, ITGAV, RAC1, RAB6A, CAP1, SNAP23, EHD1, HSPA8, RAB2A, RAB8A, STX4, SCAMP2, STXBP3, WAS, FLNA, LIN7A, NRAS, NME2, LAT2, TFRC, VCP, ARF1, VAMP8, RAB5A	RAB7A, COPA, AP1M1, YWHAZ, STX7, AP1B1, SNCA, NAPA, CLTC, RAB1A, SRC, COPB2, AP2B1, PACSIN2, GSN, COPB1, RAC1, CAP1, SNAP23, EHD1, THBS1, STX11, HSPA8, SCAMP2, LYN, CD36, VCP, NME1, VAMP8, AP2A1, VAMP7, ARCN1, USO1, HGS, VAMP2, DNM1, COPE, DNM2, MYH10

6605	Protein targeting	3.11E-08	3.05E-04	3.72E-04	BID, XPO1, SRP14, YWHAZ, GRPEL1, AP1M2, PDIA3, EIF5A, GIPC1, CALR, SSR1, CSE1L, RPL11, KPNB1, DNAJC19, HSPA9, MYO6, RAN, YWHAB, TOMM40, NDUFA13, YWHAE, YWHAG, SEC61B, ERBB2IP, RPL23, IPO7, IPO5, YWHAQ, SDCBP, SPTBN1, NUTF2, TOMM22, SRP72	YWHAZ, RAN, YWHAB, YWHAE, CDC37, YWHAG, CSE1L, RPL23, YWHAQ, SPTBN1, SDCBP, RPL11, NUTF2, KPNB1, HSPA9	BID, FYB, YWHAZ, PDIA3, YWHAB, YWHAE, TGFBI, MAPK1, YWHAG, YWHAQ, SPTBN1, PPP3CA, KPNB1, HSPA9
6457	Protein folding	1.31E-08	2.21E-09	3.47E-10	HSP90AB1, COPA, GRPEL1, FKBP4, VBP1, PDIA6, CCT2, CCT3, CALR, CANX, DNAJB11, BAG2, DNAJA1, HSPE1, DNAJC19, HSPA8, HSPA9, TCP1, HSP90AA1, CCT6A, CCT7, ST13, PFDN2, HSP90B1, CCT5, CCT4, PPIA, PFDN5, CCT8, RUVBL2, HSPD1	HSP90AB1, TCP1, HSP90AA1, FKBP4, PDIA6, CCT2, CCT6A, CCT3, ST13, CCT7, HSP90B1, CCT5, CCT4, PPIA, CCT8, DNAJA1, HSPE1, RUVBL2, HSPD1, HSPA8, HSPA9	HSP90AB1, COPA, TCP1, HSP90AA1, CCT2, CCT6A, CCT3, CANX, ST13, CCT7, TRAP1, HSP90B1, CCT5, PPIB, DNAJB11, PPIA, CCT8, RUVBL2, HSPD1, HSPA8, HSPA9
31399	Regulation of protein modification process	3.86E-08	3.92E-08	1.95E-10	PSMA7, PSMB5, PSMB4, BAK1, PSMB7, PRKAR2A, SET, PSMB6, PSMB1, PSMB3, PPP2CA, PSMD1, PSMB2, PSMD2, PSMD3, PSMD5, PSMD7, PPP2R1A, YWHAB, YWHAE, UBE2N, PSMA2, PSMA1, PSMC6, PSMD13, G6PD, PSMA6, PSME1, PSMD12, PSMC4, PSMA5, PSMC3, PSMD11, PSME2, PSMA4, BAX, PSMA3, PSMC1, CD81, PSME3, VPS28	ITGB2, PSMA7, PSMB4, PRKAR2A, PSMB6, PSMB1, PPP2CA, PSMB3, PSMB2, PSMD2, INSR, PSMD7, PTPRC, YWHAB, YWHAE, PSMA2, UBE2N, PSMA1, PSME1, PSMA6, PSME2, PSMA5, BAX, PSMA4, PSMA3	SNCA, TGFBI, PSMB4, PSMB1, PSMB3, PSMB2, PSMD2, PSMD3, SYK, PRKCA, PPP2R1A, LYN, YWHAB, PRKCD, YWHAE, PSMA2, UBE2N, PSMA1, PSMD14, G6PD, PSMD11, PSMC3, PSMA5, PSMC2, PRKAR1B, PRKAR1A, PEBP1
31396	Regulation of protein ubiquitination	2.50E-15	5.50E-10	8.66E-08	PSMA7, PSMB5, PSMB4, PSMB7, PSMB6, PSMB1, PSMB3, PSMD1, PSMB2, PSMD2, PSMD3, PSMD5, PSMD7, UBE2N, PSMA2, PSMA1, PSMC6, PSMD13, PSMA6, PSME1, PSMD12, PSMC4, PSMA5, PSME2, PSMD11, PSMC3, PSMA4, PSMC1, PSMA3, PSME3, VPS28	PSMA7, UBE2N, PSMA2, PSMA1, PSMB4, PSMB6, PSMB1, PSMA6, PSME1, PSME2, PSMA5, PSMA4, PSMB3, PSMB2, PSMA3, PSMD2, PSMD7	PSMA2, UBE2N, PSMA1, PSMB4, PSMD14, PSMB1, PSMC3, PSMD11, PSMA5, PSMC2, PSMB3, PSMB2, PSMD2, PSMD3
16044	Membrane organization	8.72E-11	1.23E-06	8.78E-16	COPA, HRAS, CLTA, AP1B1, VAPA, ATP5B, CLTC, COPB2, BAK1, APP, COPB1, CAP1, FTL, STX4, HSP90AA1, MYO6, ATP6V1H, NME2, LETM1, RAB18, NME1, VAMP8, ARCN1, VAMP3, TOMM22, VAMP2, COPG, COPE, BID, RAB7A, AP1M2, COPZ1, NAPA, FTH1, CD9, KRAS, ITGAV, RAC1, HSPA4, AGRN, SNAP23, EHD1, THBS1, HSPA8, RAB8A, LMNA, SOD1, NRAS, AP2A2, TFRC, ARF1, AP2A1, BAX, RAB22A, DNMT2	RAB7A, STX7, ATP5B, WASF2, CLTC, AHSG, DOCK2, APOE, ITGAV, RAC1, HSPA4, SNAP23, CAP1, EHD1, HSPA8, STX4, RAB8A, HSP90AA1, NRAS, NME2, TFRC, ARF1, VAMP8, BAX, RAB5A, GCA	BID, RAB7A, COPA, AP1M1, STX7, AP1B1, SNCA, NAPA, CLTC, COPB2, CD9, PACSIN2, COPB1, RAC1, HSPA4, PAFAH1B1, CAP1, SNAP23, EHD1, THBS1, STX11, EMD, HSPA8, NPLOC4, HSP90AA1, CD36, NME1, VAMP8, AP2A1, VAMP7, PLSCR3, ARCN1, USO1, VAMP2, DNMT1, COPE, DNMT2, MYH10
70271	Protein complex biogenesis	2.94E-06	8.41E-07	8.42E-08	XPO1, HRAS, OCLN, CTNNB1, LONP1, GSN, NDUFS8, TUBA1B, KPNB1, TUBA1C, CUTA, IKBKAP, PPP2R1A, STX4, HSP90AA1, DARS, STXBP3, SLC9A3R1, HMGA1, FLNA, JUP, IPO7, VAMP8, IPO5, VAMP3, TOMM22, POLR2H, HSD17B10, GRB2, DIAPH1, FKBP4, ALDOC, DAG1, CDH1, ARPC4, HPRT1, CALR, SRC, SF3B3, TFAM, TUBB, CSE1L, RAC1, NPM1, HSPA4, AGRN, TCP1, YWHAB, EPRS, SOD2, VCP, BAX, HSPD1	GRB2, FKBP4, ARPC4, SRC, TUBB, CSE1L, GSN, RAC1, HSPA4, FAS, KPNB1, INSR, TUBA1B, TCP1, STX4, HSP90AA1, DARS, PFKL, YWHAB, MPP6, STXBP3, CD40, SLC9A3R1, WAS, FLNA, LIN7A, VCP, VAMP8, BAX, TUBA4A, HSPD1	TUBB2B, GRB2, DIAPH1, ARPC4, SRC, TGFBI, FGG, TUBB, FGA, FGB, GSN, ILK, RAC1, HSPA4, KPNB1, TUBA1C, SYK, PPP2R1A, TCP1, HSP90AA1, PFKL, YWHAB, ACTN2, DECR1, NCK2, VWF, VCP, VAMP8, MYH11, PEBP1, HSPD1
33043	Regulation of organelle organization	3.10E-05	2.62E-05	3.34E-07	XPO1, DYNC1L1I, LIMA1, ARF6, ARPC5, TPM1, CTNNB1, DSTN, ACTR3, CDC42, PFN2, SET, ARPC3, GSN, ARPC2, PRMT5, RAC1, NPM1, RHOA, RANBP1, ROCK2, UBE2N, ARPC1B, ARPC5L, CFL1, SPTBN1, ADD1, SPTAN1	RDX, ARF6, ARPC5, UBE2N, ACTR3, ARPC1B, CDC42, ARPC3, GSN, ARPC2, ARPC5L, RAC1, CFL1, RHOA, SPTBN1, INSR, SPTAN1	ROCK2, SNCA, ARPC5, TPM1, DSTN, UBE2N, ACTR3, CDC42, ARPC1B, NCK2, GSN, ARPC2, ILK, RAC1, CFL1, RHOA, PEBP1, SPTBN1, SPTB

7010	Cytoskeleton organization	4.22E-09	3.57E-11	1.68E-10	HRAS, TLN1, LIMA1, LMO7, CTNNB1, DSTN, ACTG1, CDC42, DYNLL1, GSN, RHOA, RALA, RANBP1, CAPI, DYNC1H1, TUBA1B, PLS3, ACTN4, ROCK2, RAN, ACTN1, MYH9, FLNB, FLNA, VASP, DCTN2, EPB41L2, KRT19, CFL1, SDCBP, ADD1, ALDOA, DIAPH1, ARPC4, ARF6, ARPC5, CALR, ITGB1, TPM1, PFN1, TUBB, PFN2, KRAS, EZR, KRT8, RAC1, NPM1, ARHGDIB, RACGAP1, SOD1, NRAS, EPS8, ERBB2IP, LAMA5, CRK	ALDOA, TLN1, WASF2, ARF6, ARPC4, ARPC5, CDC42, PFN1, DOCK2, TUBB, EZR, RAC2, APOE, GSN, RAC1, RHOA, RALA, CAPI, DYNC1H1, TUBA1B, DLG1, ARHGDIB, FMNL1, ACTN4, RAN, FSCN1, MYH9, WAS, VASP, FLNA, EPB41L2, NRAS, CFL1, SDCBP, STMN1, LCP1	TLN1, DIAPH1, ARPC4, ARPC5, PRKG1, ITGB1, TPM1, DSTN, CDC42, PFN1, TUBB, RAC2, DYNLL1, PACSIN2, GSN, RAC1, RHOA, PAFAH1B1, CAPI, ARHGDIB, ROCK1, ACTN4, ACTA1, ROCK2, ACTN1, MYH9, VASP, NCK2, LASP1, CFL1, MYH11, FHOD1, MYH10
30036	Actin cytoskeleton organization	6.82E-13	1.66E-14	1.08E-16	ALDOA, TLN1, HRAS, LIMA1, DIAPH1, LMO7, ARF6, ARPC4, ARPC5, CALR, ITGB1, TPM1, DSTN, ACTG1, CDC42, PFN1, PFN2, KRAS, EZR, DYNLL1, GSN, RAC1, RHOA, RALA, CAPI, PLS3, ARHGDIB, ACTN4, ROCK2, ACTN1, MYH9, RACGAP1, FLNB, VASP, FLNA, EPB41L2, NRAS, KRT19, EPS8, CFL1, SDCBP, CRK, ADD1	ALDOA, TLN1, WASF2, ARF6, ARPC4, ARPC5, CDC42, PFN1, DOCK2, EZR, RAC2, GSN, RAC1, RHOA, RALA, CAPI, ARHGDIB, DLG1, FMNL1, ACTN4, FSCN1, MYH9, WAS, VASP, FLNA, EPB41L2, NRAS, CFL1, SDCBP, LCP1	TLN1, DIAPH1, ARPC4, ARPC5, PRKG1, ITGB1, TPM1, DSTN, CDC42, PFN1, RAC2, DYNLL1, PACSIN2, GSN, RAC1, RHOA, PAFAH1B1, CAPI, ARHGDIB, ROCK1, ACTN4, ACTA1, ROCK2, ACTN1, MYH9, VASP, NCK2, CFL1, MYH11, FHOD1, MYH10
10941	Regulation of cell death	2.00E-05	2.40E-05	1.14E-09	XRCC5, RTN4, HRAS, PDIA3, EIF5A, PRDX5, PRDX2, PRDX1, RPS3, BAK1, APP, DYNLL1, CD44, RPS3A, RHOA, TPT1, RPL11, NDUFS3, NQO1, DDAH2, PPP2R1A, SLC25A4, ACTN4, AIFM1, CYCS, NDUFA13, ACTN1, NME2, KRT18, NME3, NME1, CFL1, HSPB1, PSME3, MYO18A, DPF2, BID, HMGB1, YWHAZ, PPP3R1, PRKDC, HSPA1A, CDH1, SFN, CALR, SRC, TUBB, KRAS, PPP2CA, PPP2CB, NPM1, RAC1, HSPE1, HSPA5, THBS1, ARHGDIA, HSPA9, EEF1A2, PHB, ANXA1, YWHAB, SOD1, RPS6, YWHAE, SOD2, NRAS, HSP90B1, VCP, BAX, HSPD1, PDCD6, DAP3, DN2M	YWHAZ, HSPA1A, PRDX1, SRC, RPS3, TUBB, CD44, APOE, ALB, RPS3A, PPP2CA, RAC1, RHOA, RPL11, HSPE1, HSPA5, FAS, SPN, ARHGDIA, HSPA9, PTPRC, ACTN4, PHB, YWHAB, YWHAE, NRAS, SERPINB9, NME2, HSP90B1, VCP, BAX, PLCG2, CFL1, LCK, HSPD1, TNFAIP3, PDCD5, PDCD6	RTN4, BID, YWHAZ, PDIA3, STAT5A, CLU, SNCA, PRDX2, HSPA1A, PRDX1, TGFB1, SRC, BTK, TUBB, CASP3, DYNLL1, ALB, ILK, RAC1, RHOA, HSPA5, THBS1, HSPA9, PRKCA, PPP2R1A, ACTN4, ROCK1, AIFM1, PHB, CYCS, YWHAB, ACTN1, ACTN2, YWHAE, PLG, MAPK1, SERPINB9, HSP90B1, VCP, NME1, PLCG2, CFL1, HSPB1, HSPD1, DN2M
7155	Cell adhesion	9.79E-02	1.26E-02	3.61E-06	CLDN3, CLSTN1, ITGB4, LMO7, CASK, CTNND1, CDH1, ARF6, CD151, ITGB1, SRC, VCL, CTNNB1, CD9, APP, LGALS3BP, EZR, CD44, ITGAV, RAC1, RHOA, MSN, SCARB2, THBS1, CIB1, ICAM1, F11R, RPSA, LGALS4, EFN1, ITGA2, ACTN1, ITGA3, STXBP3, MYH9, CTNNA1, JUP, ARVCF, NME2, DSG2, ITGA6, ERBB2IP, F5, NME1, LAMA5, PKP3, CLDN1	ITGAL, ITGB2, ARF6, ITGB3, SRC, VCL, EZR, CD44, ITGB7, ITGAV, RAC1, RHOA, CD22, MSN, CIB1, DLG1, RPSA, PTPRC, ICAM1, ICAM3, STXBP3, MYH9, NME2, PECAM1, CD58, CYFIP2	LIMS1, VTN, ITGB3, ITGB1, SRC, VCL, CD9, GP5, GP1BB, ILK, RAC1, RHOA, GP1BA, ZYX, MSN, THBS1, SYK, FN1, SELP, ROCK1, ICAM2, ACTN1, NID1, ACTN2, MYH9, VWF, CD36, ATP2A2, ITGA6, NME1, PECAM1, CYFIP2, PARVB, ITGA2B
6928	Cell motion	5.11E-05	5.25E-12	9.07E-13	GNA13, TLN1, ATP5B, PRKDC, ARF6, GIPC1, ARPC5, EPHB3, ITGB1, TPM1, SRC, DSTN, VCL, ACTR3, ACTG1, CD9, ACTR2, APP, TUBB, ARPC3, CD44, ARPC2, RAC1, DNAAJ1, CAPI, MSN, THBS1, ARHGDIA, ARHGDIB, ACTB, ICAM1, S100P, EFN1, ANXA1, ITGA2, RPL24, MYH9, YWHAE, VASP, ARPC1B, ITGA6, LAMA5, BAX, TXN, CFL1, HSPB1, SDCBP	GNA13, ITGAL, TLN1, ATP5B, WASF2, VIM, ARF6, ITGB2, ARPC5, SRC, EPHB1, VCL, ACTR3, ACTR2, DOCK2, TUBB, ARPC3, CD44, CXCR4, ARPC2, RAC1, DNAAJ1, CAPI, MSN, ARHGDIA, ARHGDIB, PLAT, ACTB, ICAM1, RPL24, MYH9, YWHAE, VASP, ARPC1B, IGSF8, BAX, CFL1, TXN, SDCBP	GNA13, TLN1, ARPC5, PRKG1, ITGB1, TPM1, TGFB1, SRC, DSTN, VCL, ACTR3, CD9, ACTR2, APOB, TUBB, ARPC2, RAC1, PAFAH1B1, CAPI, MSN, THBS1, ARHGDIB, SYK, FN1, PRKCA, ACTB, SELP, ROCK1, MYH9, YWHAE, VASP, STAT3, NCK2, ARPC1B, ITGA6, CFL1, HSPB1, MYH10

7049	Cell cycle	6.73E-04	5.86E-02	1.65E-03	S100A6, MRPL41, TSG101, CTNNB1, APP, TARDBP, PSMD1, PSMD2, PSMD3, RANBP1, PSMD5, DYNC1H1, PSMD7, RBBP4, RAN, UBE2I, MYH9, PPP1CB, DCTN2, PSMA2, PSMA1, KRT18, PSMA6, PSME1, PSMA5, PSME2, PSMA4, PSMA3, PSME3, RUVBL1, PDCC6IP, PSMA7, CALR, ITGB1, PSMB5, PSMB4, PSMB7, TUBB, GADD45GIP1, PSMB6, HSPA2, PSMB1, PSMB3, NPM1, PSMB2, THBS1, NUDC, ERH, AK1, ANXA1, ILF3, RPL24, RACGAP1, PSMC6, PSMD13, PSMD12, ERBB2IP, PSMC4, PSMC3, PSMD11, PSMC1, CALM1, DNMT2	PSMA7, PSMB4, TUBB, PSMB6, PSMB1, PSMB3, PSMB2, PSMD2, DYNC1H1, PSMD7, RAN, RPL24, MYH9, PSMA2, PSMA1, PPP1CA, PSME1, PSMA6, PSME2, PSMA5, PSMA4, PSMA3, PDCC6IP, STMN1, RUVBL1	TUBB2B, ITGB1, TGFB1, PSMB4, TUBB, PSMB1, HSPA2, PSMB3, ILK, PSMB2, PSMD2, PSMD3, PAFAH1B1, PPP3CA, THBS1, MYH9, PPP1CC, DCTN1, PSMA2, MAPK1, PSMA1, PSMD14, PSMD11, PSMC3, PSMA5, PSMC2, PDCC6IP, DNMT2, MYH10
51789	Response to protein stimulus	1.18E-05	9.42E-08	1.39E-06	HSP90AB1, HSP90AA1, VAPB, ITGA2, HSPA1A, VARS, SERPINH1, ACTR3, HSPH1, HSPA2, VCP, DNAJA1, HSPB1, HSPA4, HSP E1, HSPD1, DNAJC3, DDAH2, HSPA8	HSP90AB1, HSP90AA1, CSNK2B, HSPA1A, CD48, ACTR3, HSPH1, VCP, DNAJA1, HSP E1, HSPA4, HSPD1, FAS, INSR, HSPA8	HSP90AB1, HSP90AA1, LYN, HSPA1A, TGFB1, ACTR3, HSPA1L, VCP, HSPA2, HSPB1, HSPA4, HSPD1, HSPA8
7264	Small GTPase mediated signal transduction	3.49E-10	1.75E-17	9.67E-09	GNA13, RAB7A, HRAS, RAB5B, GRB2, RAB1B, IQGAP2, ARF6, IQGAP1, SRC, CDC42, KRAS, RAC1, RHOA, RALB, RRAS, RALA, RAB6A, RHOG, ARHGDIA, ARHGDIB, RAB2A, RAP2B, GDI1, GDI2, RAB8A, ARHGFE1, MAP2K2, RAB4A, G3BP1, RAB4B, YWHAB, PARK7, NRAS, CRKL, ARF1, RAB18, RRAS2, RAB22A, CFL1, YWHAQ, SDCBP, RAPIA, RHEB, RAPIB, RAB10	GNA13, RAB7A, RAB9A, RAB5B, GRB2, WASF2, ARF6, RAB1A, IQGAP1, SRC, CDC42, RAC2, APOE, RAC1, RHOA, RALA, RAB6A, RHOG, ARHGDIA, ARHGDIB, RAB2A, RAP2B, GDI2, RAB8A, RAB8B, YWHAB, PARK7, NRAS, ARF1, GNB1, CFL1, YWHAQ, RAB5A, SDCBP, RAPIA, RHEB, RAPIB, RAB10	GNA13, RAB7A, GRB2, IQGAP2, SRC, RAB1A, CDC42, RAC2, RAC1, ARHGAP1, RHOA, RHOC, ARHGDIB, GDI1, RSU1, ROCK1, YWHAB, PARK7, MAPK1, CRKL, CFL1, YWHAQ, RHEB, RAPIB, GRAP2
6091	Generation of precursor metabolites and energy	8.96E-17	6.07E-04	1.63E-05	UQCRC2, LDHA, UQCRC1, ATP5B, CYC1, PGAM1, PDHB, NDUFS8, SLC25A3, ATP5L, PDHA1, NDUFS3, SUCLA2, ATP5H, NDUFS1, ATP5J, SLC25A4, CYCS, NDUFA13, COX4I1, ATP6V1H, CYB5A, PPP1CB, ACADVL, ATP6V1A, NNT, PKM2, TXN, ATP5C1, GNAS, MDH2, NDUFB3, ALDOA, ECH1, NDUFB8, ALDOC, HK1, TPI1, GAPDH, ETFA, GLRX, FH, ENO1, DLST, NDUFA9, NDUFA6, ATP5F1, DLAT, SOD2, SDHA, GPI, SLC25A13, ATP6V1E1, NDUFV1, SDHC, ATP5A1, PGK1, PYGB	ALDOA, LDHA, ECH1, PFKL, ATP5B, GPI, ATP6V1A, PPP1CA, TPI1, PKM2, TXN, ENO2, GNAS, PGK1, GAPDH, MDH2, ENO1, FH	UQCRC2, TXNL1, LDHA, UQCRC1, PFKL, CYCS, SNCA, PPP1CC, PDHB, ATP6V1A, TPI1, PKM2, ATP5C1, ATP5A1, PGK1, GAPDH, MDH2, PYGB, FH, ETFA
6096	Glycolysis	7.98E-08	6.01E-08	3.62E-05	ALDOA, LDHA, ALDOC, PGAM1, HK1, DLAT, PDHB, GPI, TPI1, PKM2, PDHA1, PGK1, GAPDH, MDH2, ENO1	ALDOA, GPI, TPI1, LDHA, PFKL, PKM2, ENO2, PGK1, GAPDH, MDH2, ENO1	TPI1, LDHA, PFKL, PKM2, PGK1, GAPDH, MDH2, PDHB
45321	Leukocyte activation	2.07E-01	4.08E-09	1.01E-04	ICAM1, YWHAZ, ADAM10, TOLLIP, PRKDC, STXBP3, PRDX2, MYH9, HPRT1, ITGB1, CTNNB1, BAK1, RPL22, BAX, NDRG1, HSPD1, DDOST	ITGAL, ICAM1, PTPRC, YWHAZ, ADAM10, BST2, STXBP3, CD40, MYH9, WAS, SLAMF1, CD48, DOCK2, LAT2, CXCR4, RPL22, BAX, LCK, PLCG2, MS4A1, FAS, HSPD1, LCPI, SPN	YWHAZ, ADAM10, LYN, STAT5A, SNCA, PRDX2, MYH9, PRKCD, ITGB1, TGFB1, NCK2, VAMP7, PLCG2, HSPD1, SYK, LCP2
46649	Lymphocyte activation	4.86E-01	1.69E-08	1.81E-02	ICAM1, BAK1, RPL22, BAX, PRKDC, PRDX2, HSPD1, MYH9, HPRT1, ITGB1, DDOST, CTNNB1	ITGAL, PTPRC, ICAM1, BST2, CD40, MYH9, WAS, SLAMF1, CD48, DOCK2, LAT2, CXCR4, RPL22, BAX, LCK, PLCG2, MS4A1, FAS, HSPD1, LCPI, SPN	NCK2, STAT5A, PLCG2, PRDX2, HSPD1, MYH9, ITGB1, PRKCD, TGFB1, SYK
42110	T cell activation	3.50E-01	7.32E-07	3.99E-02	ICAM1, RPL22, BAX, PRKDC, PRDX2, HSPD1, MYH9, DDOST, CTNNB1	PTPRC, ICAM1, ITGAL, MYH9, WAS, CD48, DOCK2, RPL22, CXCR4, BAX, LCK, HSPD1, FAS, LCPI, SPN	NCK2, STAT5A, PRDX2, HSPD1, MYH9, TGFB1, SYK
50878	Regulation of body fluid levels	2.14E-01	1.31E-02	3.66E-10	GNA13, ANXA7, CD9, GPI, COPA, GNAQ, F5, ITGA2, STXBP3, AGR2, ANXA2	PLAT, GNA13, ANXA7, GPI, STXBP3, ITGB3, CD40, WAS, ANXA2	GNA13, COPA, F13A1, ITGB3, PLG, CD9, ANXA7, VWF, FGG, GP5, LPA, CD36, GNAQ, FGA, FGB, GP1BB, SERPINE1, GP1BA, TREML1

7599	Hemostasis	3.47E-01	1.00E-02	3.91E-11	GNA13, ANXA7, CD9, GPI, GNAQ, F5, ITGA2, STXBP3	PLAT, GNA13, ANXA7, GPI, STXBP3, ITGB3, CD40, WAS	GNA13, F13A1, ITGB3, PLG, CD9, ANXA7, VWF, FGG, GP5, LPA, CD36, GNAQ, FGA, FGB, GP1BB, SERPINE1, GP1BA, TREML1
42060	Wound healing	5.60E-01	6.17E-02	3.01E-11	GNA13, CD9, SDC1, GNAQ, F5, CD44, GSN, DSP, ITGA2, STXBP3, TPM1	PLAT, GNA13, CD44, GSN, DSP, STXBP3, ITGB3, CD40, WAS	GNA13, F13A1, ITGB3, TPM1, PLG, TGFB1, CD9, VWF, FGG, GP5, LPA, CD36, GNAQ, FGA, GP1BB, GSN, FGB, MTPN, SERPINE1, GP1BA, TREML1, MYH10, FN1
50817	Coagulation	6.33E-01	7.56E-02	1.57E-10	GNA13, CD9, GNAQ, F5, ITGA2, STXBP3	PLAT, GNA13, STXBP3, ITGB3, CD40, WAS	GNA13, F13A1, ITGB3, PLG, CD9, VWF, FGG, GP5, LPA, CD36, GNAQ, FGA, FGB, GP1BB, SERPINE1, GP1BA, TREML1
30168	Platelet activation	5.11E-01	1.57E-01	1.53E-07	GNA13, CD9, STXBP3	GNA13, STXBP3, CD40	GNA13, CD9, VWF, FGG, FGA, GP1BB, FGB, GP1BA, TREML1
