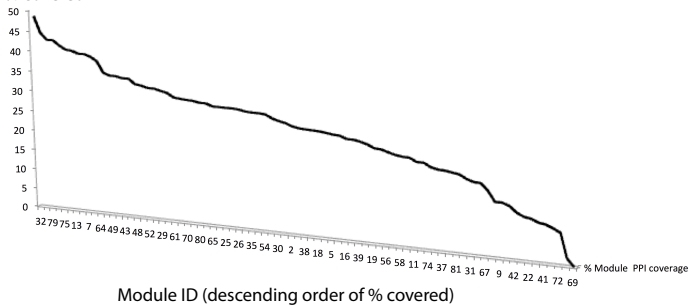


Supplementary Table 1: resulting exemplars computed by the affinity propagation

Exemplar ID	total shared	privag #	shared pr #	genes in the	Genes assigned to the protein network exemplar
72	802	57.286			14 AICDA, CDC6, CDC7, CDT1, DBF4, MCM2, MCM3, MCM4, MCM5, MCM6, MCM7, RPA1, RPA2, RPA3
138	252	36			7 EZH2, JARID2, MTF2, RBBP4, STK38, SUZ12, TRIM35
186	31				1 ANKRD32, LBR1, LBR2, RAI14, SSBP2, SSBP3
118	760	30.4			25 ACTL6A, AOD1, ARID1A, BRWD1, EZF4, EZF5, ESR1, ETS2, EVA1, GATA6, HCF1, MED30, MYBBP1A, OGT, PBRM1, RBP1, RIF1, SMARCA2, SMARCA4, SMARCB1, SMARCC1, SMARCC2, SMARCC3, SMARCC4, SMARCC5, SMARCC6, SMARCC7, SMARCC8, SMARCC9, SMARCC10, SMARCC11, SMARCC12, SMARCC13, SMARCC14, SMARCC15, SMARCC16, SMARCC17, SMARCC18, SMARCC19, SMARCC20, SMARCC21, SMARCC22, SMARCC23, SMARCC24, SMARCC25, SMARCC26, SMARCC27, SMARCC28, SMARCC29, SMARCC30, SMARCC31, SMARCC32, SMARCC33, SMARCC34, SMARCC35, SMARCC36, SMARCC37, SMARCC38, SMARCC39, SMARCC40, SMARCC41, SMARCC42, SMARCC43, SMARCC44, SMARCC45, SMARCC46, SMARCC47, SMARCC48, SMARCC49, SMARCC50, SMARCC51, SMARCC52, SMARCC53, SMARCC54, SMARCC55, SMARCC56, SMARCC57, SMARCC58, SMARCC59, SMARCC60, SMARCC61, SMARCC62, SMARCC63, SMARCC64, SMARCC65, SMARCC66, SMARCC67, SMARCC68, SMARCC69, SMARCC70, SMARCC71, SMARCC72, SMARCC73, SMARCC74, SMARCC75, SMARCC76, SMARCC77, SMARCC78, SMARCC79, SMARCC80, SMARCC81, SMARCC82, SMARCC83, SMARCC84, SMARCC85, SMARCC86, SMARCC87, SMARCC88, SMARCC89, SMARCC90, SMARCC91, SMARCC92, SMARCC93, SMARCC94, SMARCC95, SMARCC96, SMARCC97, SMARCC98, SMARCC99, SMARCC100
52	316	21.067			15 ANP32A, DACH1, FOSB, HDAC2, HDAC3, L3MBTL2, MTA1, MTA3, RBBP7, REST, SP3, TC7F12, WDOR5, ZDHHC13, ZFPM1
133	126	21			6 ARNTL, CLOCK, CRY1, GTF2A1, PER1, TIMELESS
82	170	18.889			9 APB181, CBL, CBLB, CRK, INP50, NCKIPSD, PRKCA, PTPN6, USP8
108	356	16.952			21 BCOR, CBX2, CUL7, DNMT3B, EZF6, ERG, HELLS, HIST3H2A, KDM2B, LCP1, MATR3, MGA, MSH2, PCGF2, PHC3, RNFX2, SCM1H1, TFDOP1, XRCX5, YAF2, ZBTB33
31	144	16			9 CDH1, CDH2, CTNND1, CTNND2, FHL2, IRS1, JUP, KIFAP3, RASGRF2
93	78	15.6			5 HNRNP91, LIG4S, NCOA3, PAK51, RNF10A
79	234	15.6			15 ALDOA, CD40, IL1R1, IL1RAP, IL1RL1, IRAK3, IRAK4, IRF4, IRF5, LRFRIP1, MYD88, TIRAP, TLR4, TNFRSF13B, TUBA1A
132	138	15.333			9 ACVR1L, CDH5, ENG, HTRA1, OCLN, TGFBI, TGFBR1, TGFBR2, XIAP
19	106	15.143			7 CCNA2, CCND1, CCNE1, CDK2, CDKN1B, HIST1H1A, NASP
91	54	13.5			4 PBX1, PBX3, POU2F1, TSC22D3
45	114	12.667			9 CCNB1, CDC25C, CDKN1A, GADD45A, GADD45B, GADD45G, PCNA, PPP1CC, REV1
134	88	12.571			7 CUL1, CTNNA1, FUS, GJA1, MPDZ, TJP1, TJP2
21	60	12			5 CCL3, CCL4, CCR1, CCR3, CCR5
33	94	11.75			8 CD3E, DOK1, DOK2, MAP4K1, MAP4K4, NCK2, RASA1, RET
18	82	11.714			7 CBX1, CBX5, CBX7, CHAF1A, DIAP2, LBR, RBL2
17	82	11.714			7 ABL1, CABLES1, CABLES2, FMN1, GRAP2, NCK1, PXN
127	70	11.667			6 TANK, TNFRSF11A, TNFRSF4, TNFRSF9, TRAFD1, ZBP1
87	70	11.667			6 ELN, FBLN2, HSPG2, LAMC1, NID1, NID2
87	70	11.667			6 ELN, FBLN2, HSPG2, LAMC1, NID1, NID2
85	68	11.333			9 ERBB2IP, LOKL1, MAPK31, NOTCH4, SMAD3, SMAD7, VDR, ZMYM5
94	260	11.304			6 BTIRC, NFE2L2, NFKBIA, NFKBIB, NFKBIE, NR4A2
139	124	11.273			23 AXI, CD19, EPHA2, ILARA, INSR, IRS2, KRAS, NEDD9, NME2, PDCD4, PIK3AP1, PIK3CA, PIK3CB, PIK3CD, PIK3R1, PLCG1, PTK2B, RALGDS, RASSF5, SIRPA, SOCS6, TEK, TLR2
74	78	11.143			11 BRCA1, CITA, GTF2H2, KDM50, POLIM4, POLR1A, POLR2B, TRIP4, TRP51, ZFP111, ZFP292
44	158	10.533			7 H0XA9, MEIS1, MEIS2, PKNOX1, PKNOX2, POU6F1, RNP51
42	9	10.5			15 CD2AP, DAPK1, EFNA2, EFPA4, FGR, FYN, PKD2, RAVER1, RGS1, SH2D1A, SH3BP1, SLAMF1, VAV1, VAV2, ZAP70
109	94	10.444			4 BCL2, BCL2L1, BCL11, BCL11L, MCL1
29	50	10			9 DOK1, NCOA1, NFATC2, NRIP1, RARA, RPS6KA3, RPS6KA5, RXRA, TRIM24
110	40	10			5 CLNK, FYB, LYN, PECAM1, SKAP2
43	60	10			4 CTR9, RUVBL1, RUVBL2, WDR61
6	76	9.5			6 FERT2, FOS, HHX, JUN, JUND, RARB
32	244	9.385			8 ASF1A, DHX9, HIST2H3C2, HIST2H4, MSH6, PARP1, SMARCA5, XRC6
28	238	9.333			26 P6V1A, BAAIP2, CAMK2D, CLU, DLG4, DYNLL1, EP58, FZD1, FZD4, GRIA3, HCK, INADL, KCNJ10, NSF, OPRD1, PACSIN1, PACSIN2, PGK1, PHB2, PHB3, RGS12, SEMA4C, SEMA4E, SEMA4F, SEMA4G, SEMA4H, SEMA4I, SEMA4J, SEMA4K, SEMA4L, SEMA4M, SEMA4N, SEMA4O, SEMA4P, SEMA4Q, SEMA4R, SEMA4S, SEMA4T, SEMA4U, SEMA4V, SEMA4W, SEMA4X, SEMA4Y, SEMA4Z, SEMA4AA, SEMA4AB, SEMA4AC, SEMA4AD, SEMA4AE, SEMA4AF, SEMA4AG, SEMA4AH, SEMA4AI, SEMA4AJ, SEMA4AK, SEMA4AL, SEMA4AM, SEMA4AN, SEMA4AO, SEMA4AP, SEMA4AQ, SEMA4AR, SEMA4AS, SEMA4AT, SEMA4AU, SEMA4AV, SEMA4AW, SEMA4AX, SEMA4AY, SEMA4AZ, SEMA4BA, SEMA4BB, SEMA4BC, SEMA4BD, SEMA4BE, SEMA4BF, SEMA4BG, SEMA4BH, SEMA4BI, SEMA4BJ, SEMA4BK, SEMA4BL, SEMA4BM, SEMA4BN, SEMA4BO, SEMA4BP, SEMA4BQ, SEMA4BR, SEMA4BS, SEMA4BT, SEMA4BU, SEMA4BV, SEMA4BW, SEMA4BX, SEMA4BY, SEMA4BZ, SEMA4CA, SEMA4CB, SEMA4CC, SEMA4CD, SEMA4CE, SEMA4CF, SEMA4CG, SEMA4CH, SEMA4CI, SEMA4CJ, SEMA4CK, SEMA4CL, SEMA4CM, SEMA4CN, SEMA4CO, SEMA4CP, SEMA4CQ, SEMA4CR, SEMA4CS, SEMA4CT, SEMA4CU, 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105	10	2.5			4 MYO7A, RAB27A, RAB3D, SYTL2
2	12	2.4			5 AP2A2, CAPN2, EPS15, GGA2, ITSN1
34	12	2.4			5 DAB2, DTN8, DTNBP1, HAP1, KIF5B
20	6	2			3 CCNT1, EIF2B1, MYC
73	6	2			3 MIF2A, MIF2C, UFC1
121	6	2			3 EGN3, SPRY2, SPRY4
8	6	2			3 B2M, CD1D1, H2.D1
98	4	2			2 POT1A, TERF1
5	4	2			2 ARL6, ARL6IP5
119	6	2			3 CREM1, PRPF40A, SMC2
48	6	2			3 GRB10, IGF1R, MAP3K5
25	8	2			4 CCOX6A, CEP290, IQCB1, KIF3A
53	4	2			2 HDAC4, NCF4
42	8	2			4 FBXW7, NOTCH1, NPM1, STAT4
28	6	1.5			4 CLIP1, CLIP2, MAP2K1, NTN1
77	4	1.333			3 CXCL1, MMP12, PAXIP1
81	4	1			4 DUXM6, EGR2, NAB2, TRIP13
86	0	0			3 EZR, NGFRAP1, NTF3

## % Module PPI coverage

% covered



Suppl Fig. 1