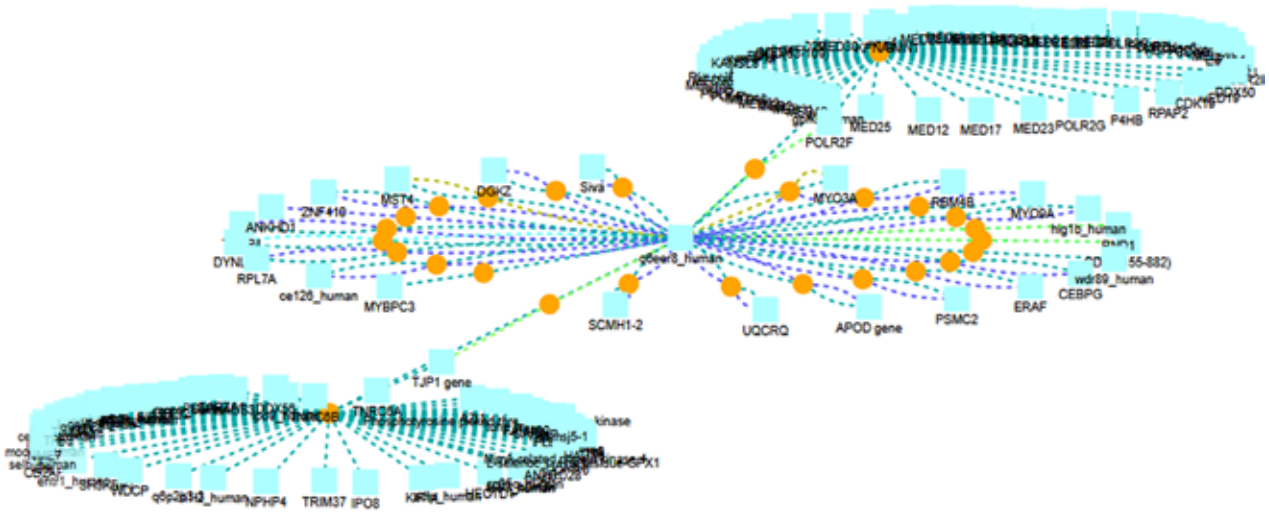
Dermatology Practical & Conceptual

Supplementary File 2

MYOZAP, ARVCF, BP230, p0071 (A.K.A Plakoglobin 4).

MYOZAP: The network below contains 27 interaction nodes and 149 physical entity nodes.

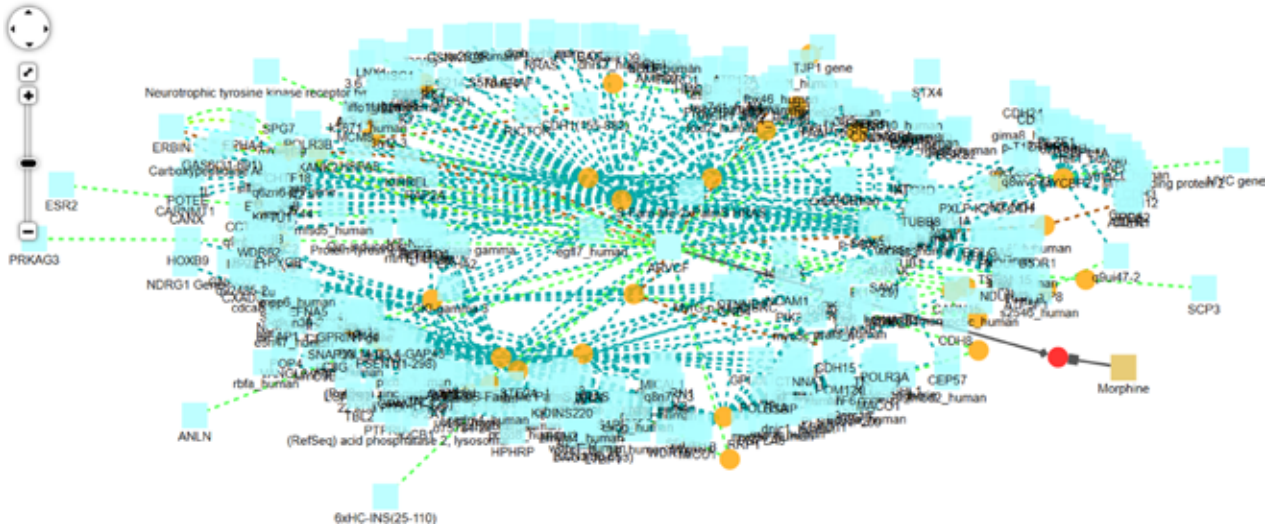


Physical entities	
Type	**Quantity**
protein	149

Interactions	
Type	**Quantity**
protein interaction	27

Interaction sources: Interaction name	Database					
	Intact	Spike	Biogrid	Phosphopoint	Pdb	Mint
PI of MYO3A; q6eer8_human	✓	✓	✗	✓	✗	✗
PI of SCMH1-2; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of DGKZ; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of PSMC2; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of DYNLL1; q6eer8_human	✓	✗	✗	✗	✗	✓
PI of MYO9A; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of hig1b_human; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of ZNF410; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of CEBPG; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of RPL7A; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of ERAF; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of MST4; q6eer8_human	✓	✗	✗	✓	✗	✗
PI of THAP1; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of UQCRQ; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of ce126_human; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of RBM4B; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of Siva; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of APOD gene; q6eer8_human	✓	✓	✗	✗	✗	✗
PI of 3.6.1.-; AFF4; CDK19; CDK8;DCD (63-109).	✓	✗	✗	✗	✗	✗
PI of ANKHD1; q6eer8_human	✗	✓	✗	✗	✗	✗
PI of q6eer8_human; wdr89_human	✓	✗	✗	✗	✗	✗
PI of CDH1(155-882); q6eer8_human	✗	✗	✓	✗	✗	✗
PI of RND1; q6eer8_human	✗	✗	✓	✗	✗	✗
PI of POLR2F; q6eer8_human	✗	✗	✓	✗	✗	✗
PI of 4E-T; ANKRD28; APC; AZI1;CAPZA1.	✓	✗	✗	✗	✗	✗
PI of TJP1 gene; q6eer8_human	✗	✗	✗	✗	✓	✗
PI of MYBPC3; q6eer8_human	✓	✗	✗	✗	✗	✗

ARVCF: The network below contains 38 interaction nodes and 340 physical entity nodes.

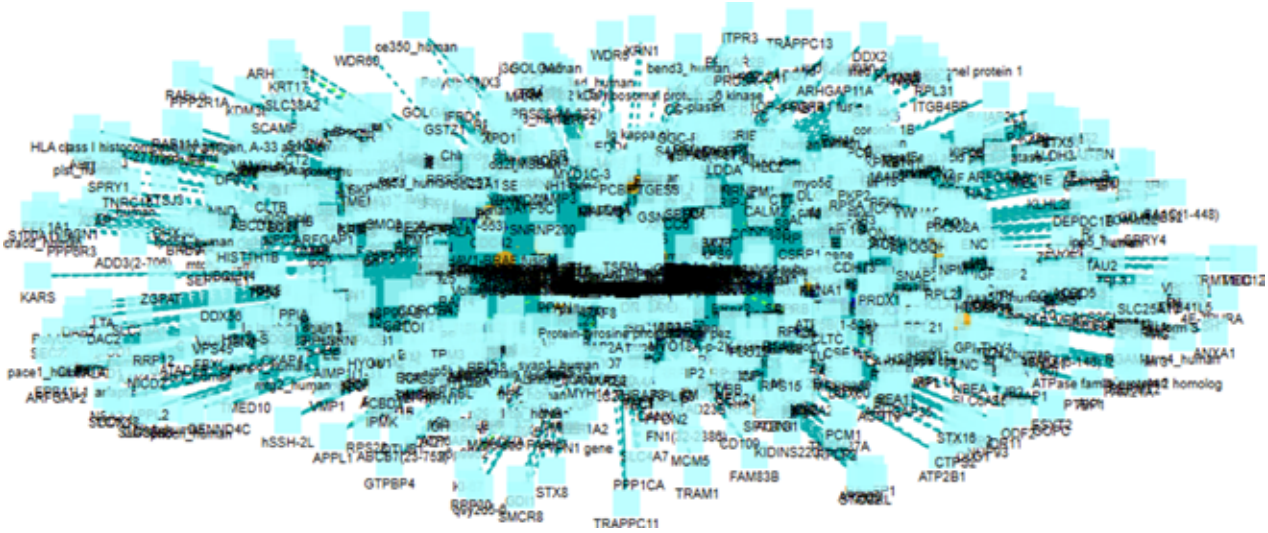


Physical entities	
Type	**Quantity**
protein	339
compound	1
Interactions	
Type	**Quantity**
protein interaction	37
drug-target interaction	1

Interaction sources: Interaction name	Database						
	Biogrid	Intact	Hprd	Pdzbase	Pharmgkb	Innatedb	Mint
PI of ARVCF; ERBIN	✓	✓	✓	✓	✗	✓	✓
PI of ARVCF; CDH15	✓	✗	✓	✗	✗	✗	✗
PI of ARVCF; CDH1(155-882)	✓	✗	✓	✗	✗	✗	✗
PI of ADIPOR1; ARVCF; ATP12A; ATP5B (1-529); ATP5F1.	✗	✓	✗	✗	✗	✗	✗
PI of 6xHC-INS (25-110); ARVCF	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; H-Ras	✓	✗	✗	✗	✗	✗	✗
PI of AMER1; APC; ARVCF; ATP5B (1-529); BLZF1	✗	✓	✗	✗	✗	✗	✗
PI of ARVCF; TJP1 gene	✗	✗	✓	✗	✗	✗	✗
PI of ARVCF; S1PR2	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; CANX; CARNMT1; Carboxypeptidase A5; EPHA4.	✗	✓	✗	✗	✗	✗	✗
PI of ARVCF; CDH8; CTNNA1; CTNNA2; CTNNB1.	✗	✓	✗	✗	✗	✗	✗
PI of ACAD11; ARVCF; ATF6; CAPN15; CEP57.	✗	✓	✗	✗	✗	✗	✗
PI of ARVCF; SCP3	✓	✗	✗	✗	✗	✗	✗
PI of ACOT9; ARVCF; CDC6; ETV3; FOXG1.	✗	✓	✗	✗	✗	✗	✗
PI of ARVCF; PROZ (24-400)	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; CTNNB1	✓	✗	✗	✗	✗	✗	✗
Drug-target interaction of Morphine with ARVCF	✗	✗	✗	✗	✓	✗	✗
PI of ARVCF; PRKAG3	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; q9ui47-2	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; LNX1	✓	✗	✗	✗	✗	✗	✗
PI of ARVCF; ESR2	✓	✗	✗	✗	✗	✗	✗
PI of ACP2 promoter; ARVCF; ATP5B (1-529),C8G; CKI-gamma 3	✗	✓	✗	✗	✗	✗	✗

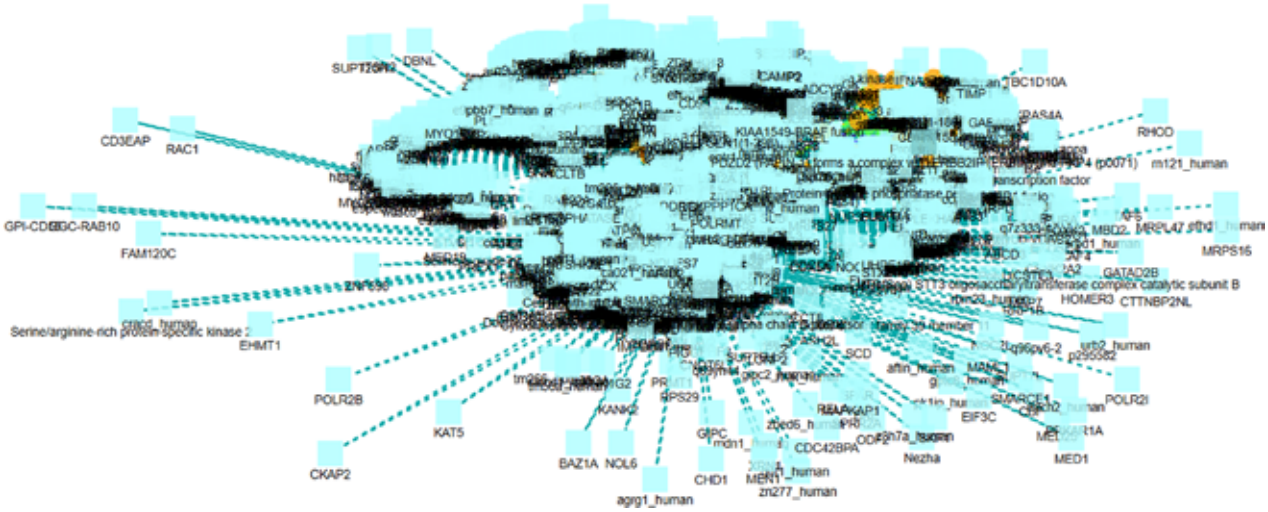
PI of ANLN; ARVCF	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; CDH8	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; cxb7_human	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; TACR1	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; P4HA2	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; CDH2	✖	✖	✔	✖	✖	✖	✖
PI of ARVCF; CKI-gamma 3; CXADR; CYP2S1, EFNA5.	✖	✔	✖	✖	✖	✖	✖
PI of ARVCF; VE-cadherin	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; MYC gene	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; CYP2S1	✔	✖	✖	✖	✖	✖	✖
PI of AHNAK; AP2A1; ARVCF; CBCP1; CD109.	✖	✔	✖	✖	✖	✖	✖
PI of 3.6.1.-; ARFGEP100; ARVCF; ATG4D; ATXN2.	✖	✔	✖	✖	✖	✖	✖
PI of ARVCF; Carboxypeptidase A5	✔	✖	✖	✖	✖	✖	✖
PI of AHNAK; AMPD2; ARVCF; CBCP1; CKI-gamma 3.	✖	✔	✖	✖	✖	✖	✖
PI of ARVCF; HS (1)-SDC1	✔	✖	✖	✖	✖	✖	✖
PI of ARVCF; TRK1	✔	✖	✖	✖	✖	✖	✖

BP230



BP230 has more than 2,000 interactions that cannot feasibly be analyzed.

Plakophilin-4, (p0071) Q99569: The network below contains 104 interaction nodes and 2568 physical entity nodes.



Physical entities	
Type	**Quantity**
protein	2567
complex	1
Interactions	
Type	**Quantity**
protein interaction	103
biochemical reaction	1

Interaction sources: **Interaction name**	**Database**									
	Biogrid	Intact	Spike	Hprd	Mint	Bind	Innatedb	Mips-mppi	Netpath	Pdzbase
PI of PKP4; PSEN1(1-298)	✓	✓	✓	✓	✓	✓	✗	✓	✗	✗
PI of ERBIN; PKP4	✓	✓	✓	✓	✓	✗	✓	✗	✗	✓
PI of DSP; PKP4	✓	✓	✓	✓	✗	✓	✗	✗	✗	✗
PI of PKP4; TRIM23	✓	✓	✗	✗	✗	✗	✓	✗	✗	✗
PI of PGAM1; PKP4	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗
PI of OSGEP; PKP4	✓	✓	✗	✗	✓	✗	✗	✗	✗	✗
PI of PKP4; VE-cadherin	✓	✗	✗	✓	✗	✓	✗	✗	✗	✗
PI of CTNNB1; PKP4	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
PI of GABARAP; PKP4	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗
PI of PDZD2; PKP4	✓	✗	✗	✓	✗	✓	✗	✗	✗	✗
PI of PKP4; SCRIB	✓	✓	✗	✗	✓	✗	✗	✗	✗	✗
PI of ATPAF2; PKP4	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; PTPRC	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
[1] PKP4 - [1] PKP4	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗
PI of LZTS2; PKP4	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of DLG1; PKP4	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗
PI of LRRC7; PKP4	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗
PI of DSC3; PKP4	✓	✗	✗	✓	✗	✗	✗	✗	✗	✗
PI of GOLGA2; PKP4	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; PTPRJ	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; RP3-480J14.1	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of MYC gene; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of LATS2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗

PI of AMER1; APC; ARVCF; ATP5B (1-529); BLZF1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; UBASH3B	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ARHGAP21; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; TACR1	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ATP6V0A1; ATP6V1A; ATP6V1B2; ATP6V1C1; ATP6V1D.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of 2xHC-SQRDL (1-450); ADAR gene; AKAP8; AKAP8L; ALYREF.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of KIF14; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; p-S435-GTSE1	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; q9ui47-2	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; tm52b_human	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ABLIM1; ACTC1; ACTG1; ACTN1; ACTN4.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; q96dt7-3	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of BMPR1A; CUEDC1; EHD4; FLT4 gene; MFAP3.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; PLEKHA4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of FGFR2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PAXIP1; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; S-Farn-Me PalmS NRAS	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of AHNAK; ANXA2; ARHGAP21; CTNNA1; CTNNB1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of MINK-beta; PKP4	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗
PI of NINL; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of CLTC; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of (RefSeq) sirtuin 7; 2xHC-SQRDL (1-450); 3.6.1.-; 3.6.1.-; 3.6.1.-	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of MCM2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ACSM1; APBA3; APLP2; APP-C99; AZI2.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of AMOTL1; AMOTL2; ANLN; APC; ARFGEP100.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of ABCC1; ABCC5; ABCE1; ACBD3; ACSL3	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; TRIM66	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PATJ; PKP4	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of CAPZA2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ARMC8; PKP4	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of ATP6V1B1; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗

PI of ACVR2A; ACVR2B; ATP2B4; BMPR1A; C2CD5	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; USP7	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ARVCF; CDH8; CTNNA1; CTNNA2; CTNNB1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of ESR2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ACVR2A; AGBL5; AGPAT1; ATP13A2; BMPR1A.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of CDH2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of AMD1(1-67); BAT2L; BIRC2; FAF2; FAM83B.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of ATG7; GNB2; GNB4; KCNJ3; KCNJ5.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of KCNJ5; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; clc11_human	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of CHERP; FGF2 gene; FGFR1c; FGFR2; GAPVD1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; RPS6KA2	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ATP6V1D; BCL6 gene; BCoR; BH; CSDA.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of NIN; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ALKBH2; COX5A; EIF4E2; FERMT3; FYTTD1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of HAVCR2; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of LATS1; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; nest_human.	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of BRPF3; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of AMOT-1; AMOTL1; AZI1; CCP110; CEP152.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of 4E-T; ALG13(1-165); AMOT-1; AZI1; CEP72.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; RACGAP1	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of MATR3; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; SAV1	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ADD1; AMBRA1; ATP9A; CEP162; CHD7.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of PKP4; cp054_human	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of LNX1; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of FERMT3; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ADIPOR1; ARVCF; ATP12A; ATP5B (1-529); ATP5F1.	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
PI of CDH1(155-882); PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
PI of ESR1; PKP4	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗

PI of C-K-RAS; PKP4	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of PKP4; PTGER3	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of ARID5B; C2CD5; CD2AP; DAPK2; DLG3.	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of PKP4; tmm17_human	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of CDH8; PKP4	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of KIF20A; PKP4	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of DLG4; PKP4	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of ACAD11; ARVCF; ATF6; CAPN15; CEP57;	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of EFNB1; IFNA17; PKP4; cp054_human	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of PKP4; mrap2_human	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of AMOTL1; AMOTL2; ARFGEP100; BCR kinase; C11ORF52;	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of H-Ras; PKP4	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of AAK1; ACAD11; ACK-1; AMSH-LP; AP1B1.	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of ABCB6; ACVR1B; ACVR2A; ACVR2B; ADIPOR1.	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of (RefSeq) sirtuin 7; 25 kDa FKBP; 2xHC-SQRDL (1-450); 3.6.1.-; 3.6.1.	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of APBA3; PKP4	✔	✖	✖	✖	✖	✖	✖	✖	✖	✖
PI of ABCC1; ABCC5; ACBD3; ACSL3; ADD3(2-706).	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖
PI of ERBIN; PDZD2; PKP4	✖	✖	✖	✖	✖	✖	✔	✖	✖	✖
PI of AAK1; ABCA2; ACK-1; AMSH-LP; AP2A1.	✖	✔	✖	✖	✖	✖	✖	✖	✖	✖