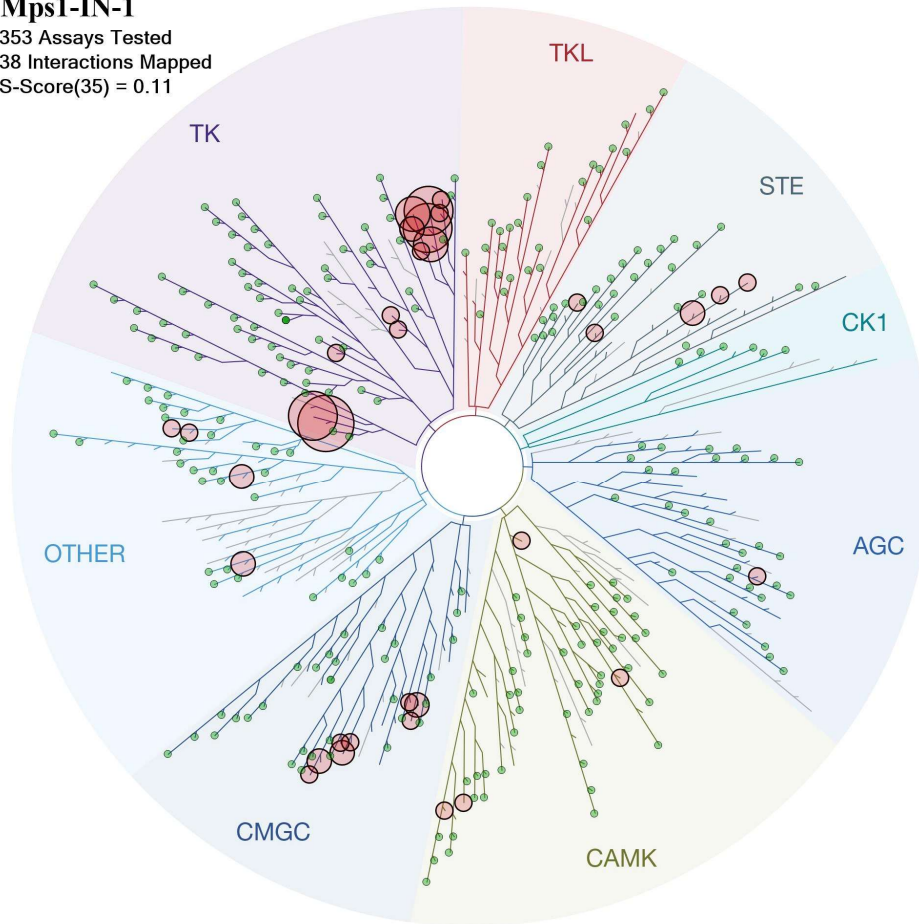
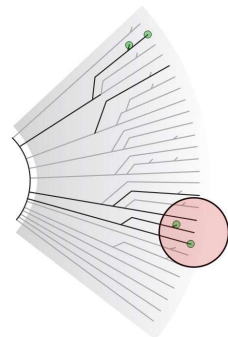


**Mps1-IN-1**  
353 Assays Tested  
38 Interactions Mapped  
S-Score(35) = 0.11

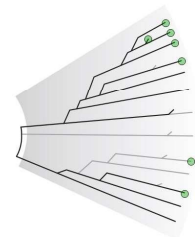


ATYPICAL

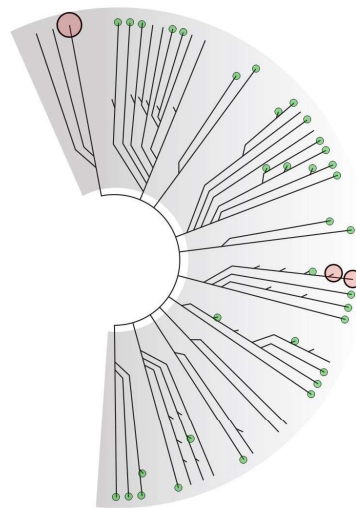
MUTANT



LIPID



PATHOGEN



Compound Name	DiscoverX Gene Symbol	Entrez Gene Symbol	Percent Control	Compound Concentration (nM)
Mps1-IN-1	AAK1	AAK1	100	10000
Mps1-IN-1	ABL1	ABL1	100	10000
Mps1-IN-1	ABL1(E255K)	ABL1	100	10000
Mps1-IN-1	ABL1(F317I)	ABL1	96	10000
Mps1-IN-1	ABL1(F317L)	ABL1	100	10000
Mps1-IN-1	ABL1(H396P)	ABL1	85	10000
Mps1-IN-1	ABL1(M351T)	ABL1	80	10000
Mps1-IN-1	ABL1(Q252H)	ABL1	100	10000
Mps1-IN-1	ABL1(T315I)	ABL1	98	10000
Mps1-IN-1	ABL1(Y253F)	ABL1	100	10000
Mps1-IN-1	ABL2	ABL2	100	10000
Mps1-IN-1	ACVR1	ACVR1	98	10000
Mps1-IN-1	ACVR1B	ACVR1B	90	10000
Mps1-IN-1	ACVR2A	ACVR2A	86	10000
Mps1-IN-1	ACVR2B	ACVR2B	84	10000
Mps1-IN-1	ACVRL1	ACVRL1	100	10000
Mps1-IN-1	ADCK3	CABC1	100	10000
Mps1-IN-1	ADCK4	ADCK4	37	10000
Mps1-IN-1	AKT1	AKT1	100	10000
Mps1-IN-1	AKT2	AKT2	100	10000
Mps1-IN-1	AKT3	AKT3	100	10000
Mps1-IN-1	ALK	ALK	8.9	10000
Mps1-IN-1	AMPK-alpha1	PRKAA1	82	10000
Mps1-IN-1	AMPK-alpha2	PRKAA2	100	10000
Mps1-IN-1	ANKK1	ANKK1	100	10000
Mps1-IN-1	ARK5	NUAK1	82	10000
Mps1-IN-1	ASK1	MAP3K5	92	10000
Mps1-IN-1	AURKA	AURKA	100	10000
Mps1-IN-1	AURKB	AURKB	100	10000
Mps1-IN-1	AURKC	AURKC	100	10000
Mps1-IN-1	AXL	AXL	19	10000
Mps1-IN-1	BIKE	BMP2K	99	10000
Mps1-IN-1	BLK	BLK	85	10000
Mps1-IN-1	BMPR1A	BMPR1A	87	10000
Mps1-IN-1	BMPR1B	BMPR1B	100	10000
Mps1-IN-1	BMPR2	BMPR2	100	10000
Mps1-IN-1	BMX	BMX	100	10000
Mps1-IN-1	BRAF	BRAF	95	10000
Mps1-IN-1	BRAF(V600E)	BRAF	91	10000
Mps1-IN-1	BRK	PTK6	100	10000
Mps1-IN-1	BRSK1	BRSK1	81	10000
Mps1-IN-1	BRSK2	BRSK2	100	10000
Mps1-IN-1	BTK	BTK	90	10000
Mps1-IN-1	CAMK1	CAMK1	75	10000
Mps1-IN-1	CAMK1D	CAMK1D	68	10000

Mps1-IN-1	CAMK1G	CAMK1G	100	10000
Mps1-IN-1	CAMK2A	CAMK2A	100	10000
Mps1-IN-1	CAMK2B	CAMK2B	99	10000
Mps1-IN-1	CAMK2D	CAMK2D	100	10000
Mps1-IN-1	CAMK2G	CAMK2G	100	10000
Mps1-IN-1	CAMK4	CAMK4	63	10000
Mps1-IN-1	CAMKK1	CAMKK1	76	10000
Mps1-IN-1	CAMKK2	CAMKK2	78	10000
Mps1-IN-1	CDC2L1	CDK11B	95	10000
Mps1-IN-1	CDC2L2	CDC2L2	91	10000
Mps1-IN-1	CDK11	CDK19	100	10000
Mps1-IN-1	CDK2	CDK2	100	10000
Mps1-IN-1	CDK3	CDK3	94	10000
Mps1-IN-1	CDK5	CDK5	99	10000
Mps1-IN-1	CDK7	CDK7	46	10000
Mps1-IN-1	CDK8	CDK8	100	10000
Mps1-IN-1	CDK9	CDK9	100	10000
Mps1-IN-1	CDKL2	CDKL2	100	10000
Mps1-IN-1	CHEK1	CHEK1	97	10000
Mps1-IN-1	CHEK2	CHEK2	47	10000
Mps1-IN-1	CIT	CIT	85	10000
Mps1-IN-1	CLK1	CLK1	7.3	10000
Mps1-IN-1	CLK2	CLK2	17	10000
Mps1-IN-1	CLK3	CLK3	62	10000
Mps1-IN-1	CLK4	CLK4	18	10000
Mps1-IN-1	CSF1R	CSF1R	100	10000
Mps1-IN-1	CSK	CSK	97	10000
Mps1-IN-1	CSNK1A1L	CSNK1A1L	94	10000
Mps1-IN-1	CSNK1D	CSNK1D	81	10000
Mps1-IN-1	CSNK1E	CSNK1E	70	10000
Mps1-IN-1	CSNK1G1	CSNK1G1	72	10000
Mps1-IN-1	CSNK1G2	CSNK1G2	60	10000
Mps1-IN-1	CSNK1G3	CSNK1G3	71	10000
Mps1-IN-1	CSNK2A1	CSNK2A1	83	10000
Mps1-IN-1	CSNK2A2	CSNK2A2	72	10000
Mps1-IN-1	DAPK1	DAPK1	100	10000
Mps1-IN-1	DAPK2	DAPK2	91	10000
Mps1-IN-1	DAPK3	DAPK3	100	10000
Mps1-IN-1	DCAMKL1	DCLK1	55	10000
Mps1-IN-1	DCAMKL2	DCLK2	95	10000
Mps1-IN-1	DCAMKL3	DCLK3	50	10000
Mps1-IN-1	DDR1	DDR1	100	10000
Mps1-IN-1	DDR2	DDR2	100	10000
Mps1-IN-1	DLK	MAP3K12	70	10000
Mps1-IN-1	DMPK	DMPK	44	10000
Mps1-IN-1	DMPK2	CDC42BPG	97	10000
Mps1-IN-1	DRAK1	STK17A	100	10000

Mps1-IN-1	DRAK2	STK17B	100	10000
Mps1-IN-1	DYRK1B	DYRK1B	36	10000
Mps1-IN-1	EGFR	EGFR	100	10000
Mps1-IN-1	EGFR(E746-A750del)	EGFR	95	10000
Mps1-IN-1	EGFR(G719C)	EGFR	100	10000
Mps1-IN-1	EGFR(G719S)	EGFR	100	10000
Mps1-IN-1	EGFR(L747-E749del, A750P)	EGFR	99	10000
Mps1-IN-1	EGFR(L747-S752del, P753S)	EGFR	91	10000
Mps1-IN-1	EGFR(L747-T751del,Sins)	EGFR	84	10000
Mps1-IN-1	EGFR(L858R)	EGFR	100	10000
Mps1-IN-1	EGFR(L861Q)	EGFR	96	10000
Mps1-IN-1	EGFR(S752-I759del)	EGFR	80	10000
Mps1-IN-1	EPHA1	EPHA1	98	10000
Mps1-IN-1	EPHA2	EPHA2	100	10000
Mps1-IN-1	EPHA3	EPHA3	98	10000
Mps1-IN-1	EPHA4	EPHA4	77	10000
Mps1-IN-1	EPHA5	EPHA5	100	10000
Mps1-IN-1	EPHA6	EPHA6	72	10000
Mps1-IN-1	EPHA7	EPHA7	100	10000
Mps1-IN-1	EPHA8	EPHA8	100	10000
Mps1-IN-1	EPHB1	EPHB1	100	10000
Mps1-IN-1	EPHB2	EPHB2	99	10000
Mps1-IN-1	EPHB3	EPHB3	92	10000
Mps1-IN-1	EPHB4	EPHB4	90	10000
Mps1-IN-1	ERBB2	ERBB2	100	10000
Mps1-IN-1	ERBB4	ERBB4	100	10000
Mps1-IN-1	ERK1	MAPK3	23	10000
Mps1-IN-1	ERK2	MAPK1	6	10000
Mps1-IN-1	ERK3	MAPK6	100	10000
Mps1-IN-1	ERK4	MAPK4	100	10000
Mps1-IN-1	ERK5	MAPK7	11	10000
Mps1-IN-1	ERK8	MAPK15	88	10000
Mps1-IN-1	FAK	PTK2	0.1	10000
Mps1-IN-1	FER	FER	16	10000
Mps1-IN-1	FES	FES	36	10000
Mps1-IN-1	FGFR1	FGFR1	99	10000
Mps1-IN-1	FGFR2	FGFR2	100	10000
Mps1-IN-1	FGFR3	FGFR3	100	10000
Mps1-IN-1	FGFR3(G697C)	FGFR3	94	10000
Mps1-IN-1	FGFR4	FGFR4	100	10000
Mps1-IN-1	FGR	FGR	79	10000
Mps1-IN-1	FLT1	FLT1	100	10000
Mps1-IN-1	FLT3	FLT3	64	10000
Mps1-IN-1	FLT3(D835H)	FLT3	35	10000
Mps1-IN-1	FLT3(D835Y)	FLT3	24	10000
Mps1-IN-1	FLT3(ITD)	FLT3	76	10000
Mps1-IN-1	FLT3(K663Q)	FLT3	59	10000

Mps1-IN-1	FLT3(N841I)	FLT3	51	10000
Mps1-IN-1	FLT4	FLT4	84	10000
Mps1-IN-1	FRK	FRK	100	10000
Mps1-IN-1	FYN	FYN	100	10000
Mps1-IN-1	GAK	GAK	5.4	10000
Mps1-IN-1	GCN2(Kin.Dom.2,S808G)	EIF2AK4	100	10000
Mps1-IN-1	GSK3A	GSK3A	100	10000
Mps1-IN-1	GSK3B	GSK3B	100	10000
Mps1-IN-1	HCK	HCK	100	10000
Mps1-IN-1	HIPK1	HIPK1	100	10000
Mps1-IN-1	HPK1	MAP4K1	74	10000
Mps1-IN-1	IGF1R	IGF1R	0.9	10000
Mps1-IN-1	IKK-alpha	CHUK	97	10000
Mps1-IN-1	IKK-beta	IKBKB	98	10000
Mps1-IN-1	IKK-epsilon	IKBKE	100	10000
Mps1-IN-1	INSR	INSR	0.15	10000
Mps1-IN-1	INSRR	INSRR	2.1	10000
Mps1-IN-1	IRAK3	IRAK3	48	10000
Mps1-IN-1	ITK	ITK	79	10000
Mps1-IN-1	JAK1(JH1domain-catalytic)	JAK1	100	10000
Mps1-IN-1	JAK1(JH2domain-pseudokinase)	JAK1	100	10000
Mps1-IN-1	JAK2(JH1domain-catalytic)	JAK2	100	10000
Mps1-IN-1	JAK3(JH1domain-catalytic)	JAK3	77	10000
Mps1-IN-1	JNK1	MAPK8	5.3	10000
Mps1-IN-1	JNK2	MAPK9	36	10000
Mps1-IN-1	JNK3	MAPK10	35	10000
Mps1-IN-1	KIT	KIT	96	10000
Mps1-IN-1	KIT(D816V)	KIT	98	10000
Mps1-IN-1	KIT(V559D)	KIT	86	10000
Mps1-IN-1	KIT(V559D,T670I)	KIT	100	10000
Mps1-IN-1	KIT(V559D,V654A)	KIT	100	10000
Mps1-IN-1	LATS1	LATS1	99	10000
Mps1-IN-1	LATS2	LATS2	97	10000
Mps1-IN-1	LCK	LCK	100	10000
Mps1-IN-1	LIMK1	LIMK1	100	10000
Mps1-IN-1	LIMK2	LIMK2	97	10000
Mps1-IN-1	LKB1	STK11	100	10000
Mps1-IN-1	LOK	STK10	100	10000
Mps1-IN-1	LTK	LTK	1.2	10000
Mps1-IN-1	LYN	LYN	100	10000
Mps1-IN-1	MAP3K3	MAP3K3	75	10000
Mps1-IN-1	MAP3K4	MAP3K4	100	10000
Mps1-IN-1	MAP4K2	MAP4K2	88	10000
Mps1-IN-1	MAP4K3	MAP4K3	71	10000
Mps1-IN-1	MAP4K4	MAP4K4	99	10000
Mps1-IN-1	MAP4K5	MAP4K5	78	10000
Mps1-IN-1	MAPKAPK2	MAPKAPK2	100	10000

Mps1-IN-1	MAPKAPK5	MAPKAPK5	100	10000
Mps1-IN-1	MARK1	MARK1	64	10000
Mps1-IN-1	MARK2	MARK2	96	10000
Mps1-IN-1	MARK3	MARK3	58	10000
Mps1-IN-1	MARK4	MARK4	17	10000
Mps1-IN-1	MEK1	MAP2K1	100	10000
Mps1-IN-1	MEK2	MAP2K2	87	10000
Mps1-IN-1	MEK3	MAP2K3	14	10000
Mps1-IN-1	MEK4	MAP2K4	6.2	10000
Mps1-IN-1	MEK6	MAP2K6	31	10000
Mps1-IN-1	MELK	MELK	66	10000
Mps1-IN-1	MERTK	MERTK	34	10000
Mps1-IN-1	MET	MET	49	10000
Mps1-IN-1	MINK	MINK1	100	10000
Mps1-IN-1	MKNK1	MKNK1	100	10000
Mps1-IN-1	MKNK2	MKNK2	75	10000
Mps1-IN-1	MLCK	MYLK3	100	10000
Mps1-IN-1	MLK1	MAP3K9	90	10000
Mps1-IN-1	MLK2	MAP3K10	78	10000
Mps1-IN-1	MLK3	MAP3K11	100	10000
Mps1-IN-1	MRCKA	CDC42BPA	92	10000
Mps1-IN-1	MRCKB	CDC42BPB	97	10000
Mps1-IN-1	MST1	STK4	98	10000
Mps1-IN-1	MST1R	MST1R	100	10000
Mps1-IN-1	MST2	STK3	82	10000
Mps1-IN-1	MST3	STK24	100	10000
Mps1-IN-1	MST4	MST4	91	10000
Mps1-IN-1	MUSK	MUSK	86	10000
Mps1-IN-1	MYLK	MYLK	61	10000
Mps1-IN-1	MYLK2	MYLK2	100	10000
Mps1-IN-1	MYLK4	MYLK4	100	10000
Mps1-IN-1	MYO3A	MYO3A	44	10000
Mps1-IN-1	MYO3B	MYO3B	28	10000
Mps1-IN-1	NDR2	STK38L	96	10000
Mps1-IN-1	NEK1	NEK1	77	10000
Mps1-IN-1	NEK2	NEK2	100	10000
Mps1-IN-1	NEK5	NEK5	91	10000
Mps1-IN-1	NEK6	NEK6	95	10000
Mps1-IN-1	NEK7	NEK7	100	10000
Mps1-IN-1	NEK9	NEK9	100	10000
Mps1-IN-1	NLK	NLK	100	10000
Mps1-IN-1	p38-alpha	MAPK14	100	10000
Mps1-IN-1	p38-beta	MAPK11	100	10000
Mps1-IN-1	p38-delta	MAPK13	100	10000
Mps1-IN-1	p38-gamma	MAPK12	100	10000
Mps1-IN-1	PAK1	PAK1	100	10000
Mps1-IN-1	PAK2	PAK2	100	10000

Mps1-IN-1	PAK3	PAK3	87	10000
Mps1-IN-1	PAK4	PAK4	100	10000
Mps1-IN-1	PAK6	PAK6	84	10000
Mps1-IN-1	PAK7	PAK7	100	10000
Mps1-IN-1	PCTK1	CDK16	99	10000
Mps1-IN-1	PCTK2	CDK17	81	10000
Mps1-IN-1	PCTK3	CDK18	89	10000
Mps1-IN-1	PDGFRA	PDGFRA	100	10000
Mps1-IN-1	PDGFRB	PDGFRB	95	10000
Mps1-IN-1	PDPK1	PDPK1	100	10000
Mps1-IN-1	PFTAIRE2	CDK15	85	10000
Mps1-IN-1	PFTK1	CDK14	84	10000
Mps1-IN-1	PHKG1	PHKG1	57	10000
Mps1-IN-1	PHKG2	PHKG2	87	10000
Mps1-IN-1	PIK3C2B	PIK3C2B	96	10000
Mps1-IN-1	PIK3CA	PIK3CA	97	10000
Mps1-IN-1	PIK3CA(E545K)	PIK3CA	88	10000
Mps1-IN-1	PIK3CB	PIK3CB	100	10000
Mps1-IN-1	PIK3CD	PIK3CD	79	10000
Mps1-IN-1	PIK3CG	PIK3CG	58	10000
Mps1-IN-1	PIM1	PIM1	100	10000
Mps1-IN-1	PIM2	PIM2	100	10000
Mps1-IN-1	PIM3	PIM3	100	10000
Mps1-IN-1	PIP5K1A	PIP5K1A	60	10000
Mps1-IN-1	PIP5K2B	PIP4K2B	100	10000
Mps1-IN-1	PKAC-alpha	PRKACA	100	10000
Mps1-IN-1	PKAC-beta	PRKACB	100	10000
Mps1-IN-1	PKMYT1	PKMYT1	83	10000
Mps1-IN-1	PKN1	PKN1	75	10000
Mps1-IN-1	PKN2	PKN2	96	10000
Mps1-IN-1	PLK1	PLK1	50	10000
Mps1-IN-1	PLK3	PLK3	82	10000
Mps1-IN-1	PLK4	PLK4	84	10000
Mps1-IN-1	PRKCD	PRKCD	96	10000
Mps1-IN-1	PRKCE	PRKCE	81	10000
Mps1-IN-1	PRKCH	PRKCH	100	10000
Mps1-IN-1	PRKCQ	PRKCQ	85	10000
Mps1-IN-1	PRKD1	PRKD1	47	10000
Mps1-IN-1	PRKD2	PRKD2	99	10000
Mps1-IN-1	PRKD3	PRKD3	50	10000
Mps1-IN-1	PRKG1	PRKG1	100	10000
Mps1-IN-1	PRKG2	PRKG2	100	10000
Mps1-IN-1	PRKR	EIF2AK2	82	10000
Mps1-IN-1	PRKX	PRKX	94	10000
Mps1-IN-1	PYK2	PTK2B	0.5	10000
Mps1-IN-1	RAF1	RAF1	95	10000
Mps1-IN-1	RET	RET	100	10000

Mps1-IN-1	RET(M918T)	RET	97	10000
Mps1-IN-1	RET(V804L)	RET	100	10000
Mps1-IN-1	RET(V804M)	RET	97	10000
Mps1-IN-1	RIOK1	RIOK1	78	10000
Mps1-IN-1	RIOK2	RIOK2	90	10000
Mps1-IN-1	RIOK3	RIOK3	0	10000
Mps1-IN-1	RIPK1	RIPK1	96	10000
Mps1-IN-1	RIPK2	RIPK2	100	10000
Mps1-IN-1	RIPK4	RIPK4	100	10000
Mps1-IN-1	ROCK2	ROCK2	57	10000
Mps1-IN-1	ROS1	ROS1	12	10000
Mps1-IN-1	RPS6KA4(Kin.Dom.1-N-terminal)	RPS6KA4	68	10000
Mps1-IN-1	RPS6KA4(Kin.Dom.2-C-terminal)	RPS6KA4	94	10000
Mps1-IN-1	RPS6KA5(Kin.Dom.1-N-terminal)	RPS6KA5	100	10000
Mps1-IN-1	RPS6KA5(Kin.Dom.2-C-terminal)	RPS6KA5	100	10000
Mps1-IN-1	RSK1(Kin.Dom.1-N-terminal)	RPS6KA1	29	10000
Mps1-IN-1	RSK1(Kin.Dom.2-C-terminal)	RPS6KA1	80	10000
Mps1-IN-1	RSK2(Kin.Dom.1-N-terminal)	RPS6KA3	69	10000
Mps1-IN-1	RSK3(Kin.Dom.1-N-terminal)	RPS6KA2	56	10000
Mps1-IN-1	RSK3(Kin.Dom.2-C-terminal)	RPS6KA2	33	10000
Mps1-IN-1	RSK4(Kin.Dom.1-N-terminal)	RPS6KA6	79	10000
Mps1-IN-1	RSK4(Kin.Dom.2-C-terminal)	RPS6KA6	53	10000
Mps1-IN-1	SgK110	SgK110	67	10000
Mps1-IN-1	SIK	SIK1	94	10000
Mps1-IN-1	SIK2	SIK2	78	10000
Mps1-IN-1	SLK	SLK	63	10000
Mps1-IN-1	SNARK	NUAK2	30	10000
Mps1-IN-1	SRC	SRC	100	10000
Mps1-IN-1	SRMS	SRMS	98	10000
Mps1-IN-1	SRPK1	SRPK1	100	10000
Mps1-IN-1	SRPK2	SRPK2	100	10000
Mps1-IN-1	SRPK3	SRPK3	100	10000
Mps1-IN-1	STK16	STK16	85	10000
Mps1-IN-1	STK33	STK33	13	10000
Mps1-IN-1	STK35	STK35	86	10000
Mps1-IN-1	STK36	STK36	100	10000
Mps1-IN-1	SYK	SYK	100	10000
Mps1-IN-1	TAK1	MAP3K7	73	10000
Mps1-IN-1	TAOK1	TAOK1	27	10000
Mps1-IN-1	TAOK3	TAOK3	56	10000
Mps1-IN-1	TEC	TEC	100	10000
Mps1-IN-1	TESK1	TESK1	98	10000
Mps1-IN-1	TGFBR1	TGFBR1	83	10000
Mps1-IN-1	TGFBR2	TGFBR2	86	10000
Mps1-IN-1	TIE1	TIE1	59	10000
Mps1-IN-1	TIE2	TEK	80	10000
Mps1-IN-1	TLK1	TLK1	100	10000



Mps1-IN-1	TLK2	TLK2	87	10000
Mps1-IN-1	TNIK	TNIK	87	10000
Mps1-IN-1	TNK1	TNK1	16	10000
Mps1-IN-1	TNK2	TNK2	14	10000
Mps1-IN-1	TNNI3K	TNNI3K	100	10000
Mps1-IN-1	TRKA	NTRK1	98	10000
Mps1-IN-1	TRKB	NTRK2	83	10000
Mps1-IN-1	TRKC	NTRK3	100	10000
Mps1-IN-1	TSSK1B	TSSK1B	63	10000
Mps1-IN-1	TTK	TTK	6.1	10000
Mps1-IN-1	TXK	TXK	100	10000
Mps1-IN-1	TYK2(JH1domain-catalytic)	TYK2	89	10000
Mps1-IN-1	TYK2(JH2domain-pseudokinase)	TYK2	100	10000
Mps1-IN-1	TYRO3	TYRO3	95	10000
Mps1-IN-1	ULK1	ULK1	30	10000
Mps1-IN-1	ULK2	ULK2	23	10000
Mps1-IN-1	ULK3	ULK3	100	10000
Mps1-IN-1	VEGFR2	KDR	100	10000
Mps1-IN-1	WEE1	WEE1	97	10000
Mps1-IN-1	WEE2	WEE2	87	10000
Mps1-IN-1	YANK2	STK32B	100	10000
Mps1-IN-1	YANK3	STK32C	100	10000
Mps1-IN-1	YES	YES1	100	10000
Mps1-IN-1	YSK1	STK25	99	10000
Mps1-IN-1	ZAK	ZAK	100	10000
Mps1-IN-1	ZAP70	ZAP70	71	10000