

Supplementary Table S5. Abbreviated list of top kinase inhibitory compounds predicted to be effective against MPNSTs from C-Map analyses of the MPNST transcriptome from NF1 patients.

CMap Class	Score	Compound	Target
CDK Inhibitors	-99.26	Palbociclib	CDK4 and 6
	-98.87	Aminopurvalanol-a	CDK1, 2, and 5
	-98.62	Purvalanol-a	CDK2 and 4
	-98.17	PHA-793887	CDK2, 5, and 7
	-97.99	JNJ-7706621	CDK1, 2, 3, 4, 6, Aurora A and B
	-93.5	CGP-60474	CDK1 and 2
Other Kinase Inhibitors	-99.33	JAK3 Inhibitor VI	JAK3
	-98.24	ZG-10	JNK
	-97.99	PF-562271	FAK
	-97.43	HG-5-113-01	LTK, NTRK2, PKN1, PTK2, PTK2B, SLK, STK10
	-97.32	AS-601245	JNK
	-97.19	Selumetinib	MEK
	-96.97	JNK-9L	JNK
	-96.93	LDN-193189	Ser/Thr Kinase Inhibitor
	-96.41	Dorsomorphin	AMPK
	-95.99	Wortmannin	PI3K
	-95.95	Bisindolylmaleimide-IX	PKC
-95.42	GDC-0941	PI3K	
-93.27	Pyrvinium-Pamoate	AKT	