







Supplementary Table S1: PTP siRNA screen summary

Gene Symbol	mRNA expression	Results after blind screen	Validation
DUSP2	Yes	Effect on ERK1/2 activation	√
DUSP6	Yes	Effect on ERK1/2 activation	√
PTP4A1	Yes	No effect	
PTP4A2	Yes	No effect	
PTP4A3	Yes	No effect	
PTPDC1	n/a	No effect	
PTPN1	Yes	No effect	
PTPN11	Yes	No effect	
PTPN12	Yes	No effect	
PTPN13	Yes	Effect on ERK1/2 activation	X
PTPN14	Yes	No effect	
PTPN18	Yes	No effect	
PTPN2	Yes	No effect	
PTPN21	No	Effect on EGFR levels	X
PTPN22	No	Effect on EGFR levels	X
PTPN23	n/a	No effect	
PTPN3	Yes	No effect	
PTPN4	No	No effect	
PTPN5	n/a	No effect	
PTPN6	No	No effect	
PTPN7	No	No effect	
PTPN9	Yes	No effect	
PTPRA	Yes	Effect on ERK1/2 activation	X
PTPRB	No	No effect	
PTPRC	No	Effect on EGFR levels	X
PTPRD	No	No effect	
PTPRE	Yes	No effect	
PTPRF	Yes	No effect	
PTPRG	No	No effect	
PTPRH	No	Effect on EGFR levels	X
PTPRJ	Yes	Effect on EGFR levels	√
PTPRK	Yes	Effect on EGFR levels	√
PTPRM	Yes	Effect on EGFR levels	X
PTPRN	No	No effect	
PTPRO	No	Effect on EGFR activation	X
PTPRR	Yes	No effect	
PTPRS	No	Effect on EGFR activation	X
PTPRT	No	No effect	
PTPRU	No	No effect	
PTPRZ1	No	No effect	

mRNA expression levels as measured using the U133a affymetrix microarray and HeLa cells. No expression means undetectable signals using the probe-sets in the array, n/a means there were no probesets annotated. Screening was repeated twice. The results present either of the two rounds of screening.

Supplementary Table S2: siDEP-1 oligonucleotide sequence information

	Sequence ¹	Position in DEP-1 mRNA	Sequence homology to other PTPs ²
#1	CAUCAACCAUGGUGUAACA	854-872	Non detected
#2	AGUCCUGCUUGUCGGGUUA	1342-1360	Non detected
#3	GAUACAAUGCCACCGUUUA	1374-1392	Non detected
#4	GUGGUCAGCACGACGGAGA	1745-1763	Non detected

¹ Oligonucleotide sequences provided by vendor.

² Sequence homology was found using the nucleotide BLAST suite (<http://blast.ncbi.nlm.nih.gov/Blast.cgi>) with the human genomic plus transcript (human G+T) database.