

Table S4 (Website database)

Genetic variation and disease annotation of PTP loci

Name		Chr Location	OMIM	LocusLink	Mitelman	Morbid	SNPs	Chr aberrations in cancers		PubMed and OMIM Search	References
PTP	Gene	UCSC View	Home	Home	Home	Home	Home	deletions	uplications		
hLyPTP	PTPN22	1p13.2	606986	26191	Map	Map	Map	Yes	-	Region associated with rearrangements in solid and hemopoietic tumors	Cohen et al, Hill et al
hLAR	PTPRE	1p34.2	179590	5792	Map	Map	Map	Yes	-	Frequently deleted in human neuroblastoma. Small cell lung cancer (Co	Link et al, Harder et al, Zabolotny et al
hPTPlamda	PTPRU	1p35.2	602454	10076	Map	Map	Map	Yes	-	Parkinson, onset	
hCD45	PTPRC	1q31.3	151460	5788	Map	Map	Map	-	-	Autoimmunity (SCID). Multiple sclerosis.Susceptibility to HIV-1 infection	Jacobsen et al, Vorechovsky et al, Barcellos et al, Kung et al, Tchilian et al
hHePTP	PTPN7	1q32.1	176889	5778	Map	Map	Map	Yes	Yes	Non-Hodgkin lymphomas	
hPTPD2	PTPN14	1q32.3	603155	5784	Map	Map	Map	Yes	Yes		
hBDP1	PTPN18	2q21.1	N.A.	26469	Map	Map	Map	-	-		
hMEG1	PTPN4	2q14.2	176878	5775	Map	Map	Map	-	-		
hPTPIA2	PTPRN	2q35	601773	5798	Map	Map	Map	-	-	Autoantigens in type I insulin-dependent diabetes mellitus (IDDM),	Cui et al
hHDPTP	PTPN23	3p21.31	N.A.	25930	Map	Map	Map	Yes	-		
hPTPgamma	PTPRG	3p14.2	176886	5793	Map	Map	Map	Yes	-	3p14.2 hot spot for alterations in lung cancer	LaForgia et al, Pitterle et al, Panagopoulos et al
hPTPBAS	PTPN13	4q21.3	600267	5783	Map	Map	Map	Yes	-	4q21.3 frequently deleted in liver and ovarian cancers	Inazawa
hPTPkappa	PTPRK	6q22.33	602545	5796	Map	Map	Map	Yes	-	Tumor supressor, frequently deleted in primary CNS lymphomas	Zhang et al, Nakamura et al
hPEST	PTPN12	7q11.23	600079	5782	Map	Map	Map	Yes	-	Aberrant transcripts in Colon cancer. Tumorigenesis ?	Takekawa et al
hPTPzeta	PTPRZ1	7q31.31	176891	5803	Map	Map	Map	Yes	-		
hPTPIA2beta	PTPRN2	7q36.3	601698	5799	Map	Map	Map	Yes	-	Autoantigens in type I insulin-dependent diabetes mellitus (IDDM),	Cui et al
hPTPdelta	PTPRD	9p24.1	601598	5789	Map	Map	Map	-	-		
hPTPH1	PTPN3	9q31.3	176877	5774	Map	Map	Map	Yes	-		
hPTPtyp	PTPN20	10q11.21-q11.22	N.A.	N.A.	Map	Map	Map	-	-		
hPTPepsilon	PTPRE	10q26.2	600926	5791	Map	Map	Map	-	-		
hDEP1	PTPRJ	11p11.2	600925	5795	Map	Map	Map	Yes	-	Colon cancer somatic mutations, Susceptibility to colon cancer-1	Ruivenkamp et al, Watanabe et al
hSTEP	PTPN5	11p15.1	176879	5776	Map	Map	Map	-	-		
hSHP1	PTPN6	12p13.31	176883	5777	Map	Map	Map	Yes	-	Sezary syndrome. Leukemogenesis.Experimental autoimmune enceph	Beghini et al, Leon et al, Deng et al, Tidow et al, Oka T
hGLEPP1	PTPRO	12p12.3	600579	5800	Map	Map	Map	Yes	-		
hPCPTP1	PTPRR	12q15	602853	5801	Map	Map	Map	-	-	Diabetes ?	Bektas et al
hPTPbeta	PTPRB	12q15	176882	5787	Map	Map	Map	-	-		
hPTPS31	PTPGMC1	12q21.31	603317	8680	Map	-	Map	-	-		
hSHP2	PTPN11	12q24.13	176876	5781	Map	Map	Map	-	-	Noonan syndrome 1, Cardiofaciocutaneous syndrome, AML	Tartaglia et al, Kavamura et al
hPTPD1	PTPN21	14q31.3-q32.11	603271	11099	Map	Map	Map	Yes	Yes		
hMEG2	PTPN9	15q24.2	600768	5780	Map	Map	Map	-	-		
hPTPmu	PTPRM	18p11.23	176888	5797	Map	Map	Map	-	-		
hTCPTP	PTPN2	18p11.21	176887	5771	Map	Map	Map	-	-		
hPTPsigma	PTPRS	19p13.3	601576	5802	Map	Map	Map	Yes	-		
hSAP1	PTPRH	19q13.42	602510	5794	Map	Map	Map	-	-	Overexpressed in colorectal cancer. Not a Peutz-Jeghers synd. candida	Seo et al, Marmaros et al
hPTPalpha	PTPRA	20p13	176884	5786	Map	Map	Map	-	-		
hPTPrho	PTPRT	20q12-q13.11	N.A.	11122	Map	Map	Map	Yes	-	Myeloproliferative disorders	
hPTP1B	PTPN1	20q13.13	176885	5770	Map	Map	Map	-	-	Insulin resistance, Obesity QTL, Breast Carcinomas, Ovarian cancer	Echwald, Dipaola, Gu, Lembertas, Lee, Hunt, Zoderivan, Tanner, Kon