

Table S1 (Supplement to Table 1 in manuscript)

## Genomic PTP sequence database (draft-quality and finished clones)

### Summary of accession numbers identified by mining the human genome for PTP-like sequences

PTP			Chromosomal location				Accession numbers				
Name	Gene Symbol	Locus ID LocusLink	Chr.	Assembly Build 33	Experimental cytogenetic mapping PubMed		Genomic clones ID GenBank				
<b>PTP-encoding genes</b>											
LyPPT	PTPN22	26191	1	1p13.2	1p13	Cohen et al	AL137856	AL365321			NT_019273
LAR	PTPRF	5792	1	1p34.2	1p32	Jirik et al	AC092815	AL158083			NT_032971
PTPlamda	PTPRU	10076	1	1p35.3	1p35	Avraham et al	AL049570				NT_004538
CD45	PTPRC	5788	1	1q31.3	1q31-q32	Goff et al	AC117946	AL157402	AL355988		NT_029862
HePTP	PTPN7	5778	1	1q32.1	1q32.1	Zanke et al, Adachi et al	AL592300				NT_034408
PTP-OST	N.A.	N.A.	1	1q32.1	N.D.		AL356953	AL592300	AL354751		NT_034408
PTPD2	PTPN14	5784	1	1q32.3	1q32.2-q41	Smith et al	AL603838	AL592216	AC026065	AC068586	AL590137
MEG1	PTPN4	5775	2	2q14.2	N.D.		AC016691	AC104668	AC041008	AC015719	AC092455
BDP1	PTPN18	26469	2	2q21.2	N.D.		AC068137				NT_032991
IA2	PTPRN	5798	2	2q35	2q35	Lan et al, Morahan et al	AC114803	AC060820	AF042285		NT_005403
PTPgamma	PTPRG	5793	3	3p14.2	3p21	Laforgia et al	AC092502	AC024885			NT_005999
HDPTP	PTPN23	25930	3	3p21.31	3p21.3	Toyooka et al	AC099778	AC023230			NT_022567
PTPBAS	PTPN13	5783	4	4q21.3	4q21.3	Inazawa et al, Maaqdenberg et al	AC105413	AC007525	AC079237		NT_006204
PTP kappa	PTPRK	5796	6	6q22.33	Chr 6	Yang et al	AL035470	AL035465			NT_025741
PEST	PTPN12	5782	7	7q11.23	7q11.23	Takekawa et al, Charest et al	AC006451	AC090421			NT_007933
PTPzeta	PTPRZ1	5803	7	7q31.31	7q31.3	Ariyama et al, Morton et al	AC006020	AC073471			NT_007933
IA2beta	PTPRN2	5799	7	7q36.3	7q36 (7q22-qtter)	Morahan et al, (Jiang et al)	AC093856	AC005481	AC006372	AC006321	AC079590
PTPdelta	PTPRD	5789	9	9p24.1	9p24	Hasegawa et al	AL445926	AC026466	AI590397	AL391275	NT_008413
PTPH1	PTPN3	5774	9	9q31.3	9q31	Itoh et al	AL359963	AL450025	AC013568	AC026568	NT_017568
PTP Typ	PTPN20*	26095	10	10q11.22	N.D.		AL672108	AL450334	AC026739	AL358791	NT_031847
PTP epsilon	PTPRE	5791	10	10q26.2	10q26	Hison et al, Melhado et al	AL390236				NT_008818
DEP1	PTPRJ	5795	11	11p11.2	11p11.2	Honda et al, Borges et al	AC026975				NT_008978
STEP	PTPN5	5776	11	11p15.1	11p15.2-p15.1	Li et al	AC103974	AC016750			NT_009307
GLEPP1	PTPRO	5800	12	12p12.3	12p12-p13	Wiggins et al	AC007542				NT_009714
SHP1	PTPN6	5777	12	12p13.31	12p13	Plutzky et al	U47924	AC006512	M86525		NT_035206
PCPTP1	PTPRR	5801	12	12q15	12q15	Bektas et al	AC083809	AC090676	AC015544	AC090670	AC055123
PTPbeta	PTPRB	5787	12	12q15	12q15-q21	Harder et al	AC025569	AC083809	AC011053	AC015544	NT_009540
PTPS31	PTPGMC1*	8680	12	12q21.13	12q15	Wright et al	AC0074031	AC025568	AC078825		NT_019546
SHP2	PTPN11	5781	12	12q24.13	12q24.1-q24.3	Dechert et al, Isobe et al	AC004216	AC004086			NT_009770
PTPD1	PTPN21	11099	14	14q31.3-q32.11	N.D.		AL162171	AL049834	AL353786		NT_026437
MEG2	PTPN9	5780	15	15q24.2	N.D.		AC105036	AC016402	AC009712	AC012527	NT_024654
TCPTP	PTPN2	5771	18	18p11.21	Chr 18	Sakaguchi et al	AP001077	AC007734	AP002449	AC067860	AC069433
PTPmu	PTPRM	5797	18	18p11.23	18p11.2	Suijkerbuijk et al, Gebbink et al	AP001094	AC021310	AC006566	AC069097	AC023663
PTPsiqma	PTPRS	5802	19	19p13.3	19p13.3	Wagner et al	AC118535	AC005788			NT_011255
SAP1	PTPRH	5794	19	19q13.42	19q13.4	Matozaki et al, Marnaros et al	AC010819	AC010327			NT_011225
PTPalpa	PTPRA	5786	20	20p13	20p12-pter	Rao et al	AL121905	AL138803			NT_011387
PTPrho	PTPRT	11122	20	20q12-q13.11	Chr 20	McAndrew et al	AL024473	AL049812			NT_011362
PTPIB	PTPN1	5770	20	20q13.13	20q13.1-q13.2	Brown-Shimer et al, Forsell et al	AL133230				NT_011362
<b>PTP pseudogenes with exon-like structure</b>											
SHP3-P1	N.A.	N.A.	1	1p36.33	N.D.		AL390719				NT_004350
PTPdelta-P5	N.A.	N.A.	5	5q23.1	N.D.		AC073538	AC114322			NT_030685
<b>PTP pseudogenes (retrotransposed intronless genes)</b>											
TCPTP-P1	N.A.	N.A.	1	1q25.2	1q22-q24	Johnson et al	AL162255				NT_004487
TCPTP-P13	N.A.	N.A.	13	13q12.3	13q12-q13	Johnson et al	AL353648	AL138681			NT_009799
SHP2-P3	N.A.	N.A.	3	3q13.12	3q13.1-q13.2	Dechert et al	AC074043				NT_019350
SHP2-P4	N.A.	N.A.	4	4q21.22	4q21	Dechert et al	AC067942	AC027573			NT_006328
SHP2-P5	N.A.	N.A.	5	5p14.2	5p14	Dechert et al	AC104460				NT_006547
SHP2-P6	N.A.	N.A.	6	6q23.3	6q23-6q24	Dechert et al	AL356234	AC058810	AC068118		NT_025741
SHP2-P8	N.A.	N.A.	8	8q12.1	8q12	Dechert et al	AC009927	AC020782			NT_008183
Meg1-P8	N.A.	N.A.	8	8p23.1	N.D.		AF287957	AC009632	AC091099		NT_023736
PTPalpa-P9	N.A.	N.A.	9	9q21.33	N.D.		AL137849	AL450106			NT_023935
<b>Other PTP-like sequences not present in assembly (Build 33)</b>											
PTP-like	N.A.	N.A.	4	N.A.	N.D.		AC040993				N.A.

\*Interim gene symbols. Not officially approved by the HUGO gene nomenclature

Accession numbers in yellow are draft-quality sequences not used in the current genome assembly (Build 33)  
See manuscript for discussion of accession numbers for PTPPOST

### Summary of accession numbers retrieved by our genome-wide search which were not classical PTPs

PTP			Chromosomal location & PubMed				Accession numbers			Other links	
Name	Gene Symbol	Locus ID LocusLink	Chr.	Assembly Build 31	PubMed PubMed	Genomic clones ID GenBank			Unigene Unigene	GDB GDB	
<b>PTP gene annotation without sequence information</b>											
PTPRZ2	PTPRZ2	5804			Onyango et al						6763972
PTPN8	PTPN8	5779									
PTPRQ	PTPRQ	23628									
PTPN17	PTPN17	5785									
<b>PTP gene symbols assigned to non-classical PTP sequences</b>											
PTPLA	PTPLA	9200	10	10p12.33	Uwanogho et al, Li et al	AF114494				Hs.114062	9955456
PTPLB	PTPLB	9199	3q21	3q21.1	Uwanogho et al	AC023165	AC020631	AC084039	AC025571		9955218
PTPLC	PTPLC	9198		Not present	Uwanogho et al	Not known					9955217
<b>False positive hits from our genome-wide PTP homology search including hits to dual-specificity phosphatases (DSPs)</b>											
Weak PTP motif			8	8p22		AC090420	AC087821	AC024929	AC024037		
Weak PTP motif			12	12q21.33		AC025034					
Weak PTP motif			?	Not present		AC013659					
Not a PTP			1	1p32.3		AL354778					
Not a PTP			1	Not present		AL359084					
Not a PTP			3	3q28		AC063939					
Not a PTP			4	4q32.3		AC021151					
Not a PTP			10	10q23.31		AL356073	AP001849				
Not a PTP			11	11q11		AC027239	AP001998				
Not a PTP			18	Not present		AC090410					
DSP	DUSP2	1844	2	2q11.2		AC012307					
DSP			7	7p12.3		AC006024	AC004899				
DSP	DUSP4	1846	8	8p12		AC055851	AC024678	AC084262	AC020588		
DSP			8p12	Not present		AC090140					
DSP			9	9p13.3		AL356489					
DSP	DUSP14	11072	17	17q12		AC004099					

Accession numbers in yellow are draft-quality sequences not used in the current genome assembly (Build 31)

