

## Product datasheet for **TP307952L**

### PTPN12 (NM\_002835) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 12 (PTPN12), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207952 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEQVEILRKFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPF  
DHSRVKLTCLKTPSQSDYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGR  
KKCERYWPLYGEDPITFAPFKISCEDEQARTDYFIRTLLEFQNESRRLYQFHYVNWPDHDPVSSFDSIL  
DMISLMRKYQEHEDVPICIHCSAGCGRTGAICAIDYTNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTK  
EQYELVHRAIAQLFEKQLQLYEIHGAQKIADGVNEINTENMISSIEPEKQDSPPPKPPRTRSCLVGDAK  
EEILQPPEPHVPPILTPSPSAFPTVTTVWQDNDRYHHPKPVLMVSSSEQHSADLNRNYSKSTELPGKNE  
STIEQIDKKLERNLSFEIKKVPVLPQEGPKSFDGNTLLNRGHAIKIKSASPCADKISKPQELSSDLNVGDT  
SQNSCVDCSVTQSNKVSVTPPEESQNSDTPPRDRLPLDEKGHVTSFHHGPENAIPIPDLEGNSSDINY  
QTRKTVSLTPSPTTQVETPDLVDHDNTSPLFRTPLSFTNPLHSDSDSDERNSDGAVTQNKTNISTASAT  
VSAATSTESISTRKVLPMIARHNIAGTTHSGAEKDVDVSEDSPPPLPERTPESFVLASEHNTVPRSEWS  
ELQSQRSEQKKSEGLITSENEKCDHPAGGIHYEMCIECPPTFSDKREQISENPTEATDIGFGNRCGKPK  
GPRDPPSEWT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	87.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002826](#)

**Locus ID:** 5782

**UniProt ID:** [Q05209](#)

**RefSeq Size:** 3240

**Cytogenetics:** 7q11.23

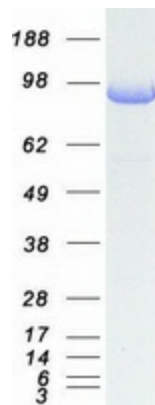
**RefSeq ORF:** 2340

**Synonyms:** PTP-PEST; PTPG1

**Summary:** The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]

**Protein Families:** Druggable Genome, Phosphatase

### Product images:



Coomassie blue staining of purified PTPN12 protein (Cat# [TP307952]). The protein was produced from HEK293T cells transfected with PTPN12 cDNA clone (Cat# [RC207952]) using MegaTran 2.0 (Cat# [TT210002]).