

## Product datasheet for **SC303978**

### PTPN22 (NM\_012411) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN22 (NM_012411) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPN22
Synonyms:	LYP; LYP1; LYP2; PEP; PTPN8; PTPN22.5; PTPN22.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



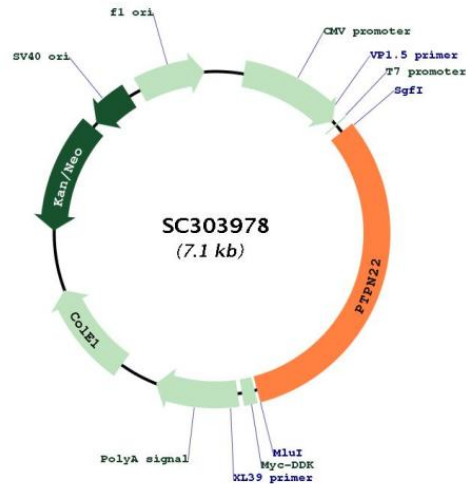
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Fully Sequenced ORF: >SC303978 representing NM\_012411.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_012411

Insert Size: 2259 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_012411.5](#)

RefSeq Size: 3513 bp

RefSeq ORF: 2259 bp

Locus ID: 26191

UniProt ID: [Q9Y2R2](#)

<b>Cytogenetics:</b>	1p13.2
<b>Domains:</b>	Y_phosphatase, PTPc_motif
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>MW:</b>	85.1 kDa
<b>Gene Summary:</b>	<p>This gene encodes of member of the non-receptor class 4 subfamily of the protein-tyrosine phosphatase family. The encoded protein is a lymphoid-specific intracellular phosphatase that associates with the molecular adapter protein CBL and may be involved in regulating CBL function in the T-cell receptor signaling pathway. Mutations in this gene may be associated with a range of autoimmune disorders including Type 1 Diabetes, rheumatoid arthritis, systemic lupus erythematosus and Graves' disease. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (2) lacks two alternate in-frame exons in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p> <p>Sequence Note:.</p>