

Product datasheet for **RC215662**

PTPN22 (NM_012411) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN22 (NM_012411) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>RC215662 representing NM_012411
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGACCAAGAGAAATTCTGCAGAAGTTCCTGGATGAGGCCAAAGCAAGAAAATTACTAAGAGGAGT
TTGCCAATGAATTTCTGAAGCTGAAAAGGCAATCTACCAAGTACAAGGCAGACAAAACCTATCCTACAAC
TGTGGCTGAGAAGCCCAAGAATATCAAGAAAAACAGATATAAGGATATTTTGGCCCTATGATTATAGCCGG
GTAGAACTATCCCTGATAACCTCTGATGAGGATCCAGCTACATCAATGCCAACTTCATTAAGGGAGTTT
ATGGACCAAGGCTTATATTGCCACCCAGGGTCTTTTCTACAACCTCCTGGACTTCTGGAGGATGAT
TTGGGAATATAGTGTCTTATCATTGTTATGGCATGCATGGAGTATGAAATGGGAAAGAAAAAGTGTGAG
CGCTACTGGGCTGAGCCAGGAGAGATGCAGCTGGAATTTGGCCCTTCTCTGTATCCTGTGAAGCTGAAA
AAAGGAAATCTGATTATATAATCAGGACTCTAAAAGTTAAGTTCAATAGTAACTCGAACTATCTACCA
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GATGTACGTTGTTACCAAGAGGATGACAGTGTCCCATATGCATTCACTGCAAGTGTGGCTGTGGAAAGGA
CTGGTGTATTTGTGCTATTGATTATACATGGATGTTGCTAAAAGATGGGAGTCAAGCAAAGCATTGTAT
TCCTGAGAAAAATCACACTCTCCAAGCAGACTCTTATTCTCCTAATTTACCAAAAAGTACCACAAAAGCA
GCAAAAATGATGAACCAACAAAGGACAAAAATGGAAATCAAAGAATCTTCTTCTTTGACTTTAGGACTT
CTGAAATAAGTGCAAAAGAAGAGCTAGTTTTGCACCCTGCTAAATCAAGCACTTCTTTTACTTTCTGGA
GCTAAATTACAGTTTTGACAAAAATGCTGACACAACCATGAAATGGCAGACAAAGGCATTTCCAATAGTT
GGGGAGCCTCTCAGAAGCATCAAAGTTGGATTTGGGCTCTCTTTTGTGTTGAGGGATGTTCTAATCTA
AACCCTGTAATGCAGCAGGAAGATATTTAATTCAAAGTGCCAATAACACGGACCAAAATCAACTCCTTT
TGAATTGATACAGCAGAGAGAAAACCAAGGAGGTGGACAGCAAGGAAAACCTTTCTTATTTGGAATCTCAA
CCACATGATTCTGTTTTGTAGAGATGCAGGCTCAAAAAGTAATGCATGTTTCTCAGCAGAAGTGAATT
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TCTTGGTGTATATTCTTACATACCTTTAGTGGAAAATCCTTATTTTTTCATCATGGCCTCCAAGTGGTACC
AGTTCTAAGATGTCTCTTGATTTACCTGAGAAGCAAGATGGAAGTGTCTTTCTTCTCTGTTGCCAA
CATCCTCTACATCCCTCTCTCTTATTACAATTCACATGATTCTTTACTGAATTCCTCAACCAATAT
TTCCTCACTATTGAACCAGGAGTCACTGTACTAGCAACTGCTCCAAGGATAGATGATGAAATCCCCCT
CCACTTCTGTACGGACCTGAATCATTATTGTGGTTGAGGAAGCTGGAGAATTCTCACCAAATGTTT
CCAAATCCTTATCCTCAGCTGTGAAGGTAATAATTTGGAACATCACTGGAATGGGGTGAACATCTGAACC
AAAGAAATTTGATGACTCTGTGATACTTAGACCAAGCAAGAGTGTAAAATCCGAAGTCTTAAATCAGAA
CTACATCAAGATCGTTCTTCTCCCCACCTCCTCTCCAGAAAAGAACTCTAGAGTCTTCTTTCTTGCCG
ATGAAGATTGTATGCAGGCCCAATCTATAGAAACATATTCTACTAGTATCCTGACACCATGGAAAAATC
AACATCTTCAAAACAGACACTGAAGACTCCTGGAAAAAGTTTCAAGGAGTAAGAGTTTAAAAATTTG
CGAAACATGAAAAAGAGTATCTGTAATTTGCCCACCAACAAGCCTGCAGAATCTGTTTCAGTCAAATA
ACTCCAGCTCATTCTGAATTTTGGTTTTGCAAACCGTTTTTCAAACCCAAAGGACCAAGGAATCCACC
ACCAACTTGAATATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215662 representing NM_012411
 Red=Cloning site Green=Tags(s)

MDQREILQKFLDEAQSKITKEEFANFLKLRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYDYSR
 VELSLITSDDESSYINANFIKGVYGPKAYIATQGPLSTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCE
 RYWAEPGEMQLEFGPFSVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDPSSIDPILELIW
 DVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTWMLLKDGSQAKHCIPEKNHTLQADSYSPNLPKSTTKA
 AKMMNQQRTKMEIKESSSDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAFPIV
 GEPLQKHQSLDLGSLLFEGCSNSKPVNAAGRYFNSKVPITRTRKSTPFELIQQRETKEVDSKENFSYLESQ
 PHDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQIRNASNVKHHDSALGVYSYIPLVENPYFSSWPPSGT
 SSKMSLDLPEKQDGTVPSSLLPTSSTLSFSYNSHDSLSLNSPTNISSLLNQESAVLATAPRIDDEIPP
 PLPVRTPEFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEWGGTSEPKKFDDSVILRPSKSVKLRSPKSE
 LHQDRSSPPPPLPERTLESFFLADEDCMQAQSIETYSTYSPDTMENSTSSKQTLKTPGKSFTRSKSLKIL
 RNMKKSICNSCPPNKPAESVQSNSSSFLNFGFANRFSPKPKGPRNPPTWNI

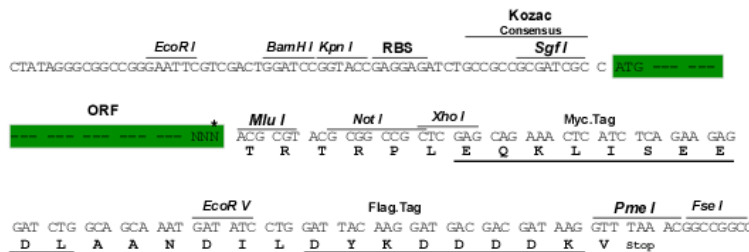
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8073_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_012411

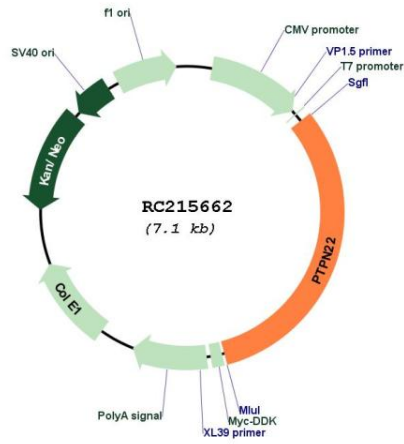
ORF Size: 2256 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_012411.5</u> , <u>NP_036543.4</u>
RefSeq Size:	2289 bp
RefSeq ORF:	2259 bp
Locus ID:	26191
UniProt ID:	<u>Q9Y2R2</u>
Cytogenetics:	1p13.2
Domains:	Y_phosphatase, PTPc_motif
Protein Families:	Druggable Genome, Phosphatase
MW:	85.14 kDa
Gene Summary:	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]

Product images:



Circular map for RC215662