

Product datasheet for **RC231413**

PTPN22 (NM_001193431) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPN22 (NM_001193431) 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:

>RC231413 representing NM_001193431
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCAAGAGAAATTCTGCAGAAGTTCCTGGATGAGGCCAAAGCAAGAAAATTACTAAAGAGGAGT
 TTGCCAATGAATTTCTGAAGCTGAAAAGGCAATCTACCAAGTACAAGGCAGACAAAACCTATCCTACAAC
 TGTGGCTGAGAAGCCCAAGAATATCAAGAAAAACAGATATAAGGATATTTTGGCCCTATGATTATAGCCGG
 GTAGAACTATCCCTGATAACCTCTGATGAGGATCCAGCTACATCAATGCCAACTTCATTAAGGGAGTTT
 ATGGACCAAGGCTTATATTGCCACCCAGGGTCTTTTCTACAACCTCCTGGACTTCTGGAGGATGAT
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 CGCTACTGGGCTGAGCCAGGAGAGATGCAGCTGGAATTTGGCCCTTCTCTGTATCCTGTGAAGCTGAAA
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 GATGTACGTTGTTACCAAGAGGATGACAGTGTCCCATATGCATTCACTGCAAGTGTGGCTGTGGAAAGGA
 CTGGTGTATTTGTGCTATTGATTATACATGGATGTTGCTAAAAGATGGGATAATTCCTGAGAACTTCAG
 TGTTTTAGTTTGTATCCGGGAAATGCGGACACAGAGGCCTTCATTAGTTCAAACGCAGGAACAATATGAA
 CTGGTCTACAATGCTGTATTAGAATAATTAAGAGACAGATGGATGTTATCAGAGATAAACATTCCTGGAA
 CAGAGAGTCAAGCAAAGCATTGTATTCTGAGAAAAATCACACTCTCCAAGCAGACTCTTATTCTCCTAA
 TTTACCAAAAAGTACCACAAAAGCAGCAAAAATGATGAACCAACAAGGACAAAAATGGAATCAAAGAA
 TCTTCTCCTTTGACTTTAGGACTTCTGAAATAAGTGCAAAAAGAGAGCTAGTTTTGCACCCTGCTAAAT
 CAAGCACTTCTTTGACTTTCTGGAGCTAAATTACAGTTTTGACAAAAATGCTGACACAACCATGAAATG
 GCAGACAAAGGCATTTCCAATAGTTGGGAGCCTCTTCAGAAGCATCAAAGTTTGGATTTGGGCTCTCTT
 TTGTTTGAGGGATGTTCTAATTCTAAACCTGTAATGCAGCAGGAAGATATTTAATTCAAAGGTGCCAA
 TAACACGGACCAATCAACTCCTTTTGAATTGATACAGCAGAGAGAAACCAAGGAGGTGGACAGCAAGGA
 AAACCTTTCTTATTTGGAATCTCAACCACATGATTCTTGTGTTTGTAGAGATGCAGGCTCAAAAAGTAATG
 CATGTTTCTTCAGCAGAACTGAATTATTCAGTCCATATGACTCTAAACACCAAATACGTAATGCCTCTA
 ATGTAAGCACCATGACTCTAGTGCTCTTGGTGTATATTCTTACATACCTTTAGTGGAATAATCCTTATTT
 TTCATCATGGCCTCCAAGTGGTACCAGTCTAAGATGTCTCTTGATTTACCTGAGAAGCAAGATGGAAC
 GTTTTTCTTCTCTCTGTTGCCAACATCCTCTACATCCCTCTTCTCTTATTACAATTCACATGATTCTT
 TATCACTGAATTCACCAACAATATTTCTCACTATTGAACCAGGAGTCAGCTGTACTAGCAACTGCTCC
 AAGGATAGATGATGAAATCCCCCTCCACTTCCCTGTACGGACACCTGAATCATTTATTGTGGTTGAGGAA
 GCTGGAGAATTCTCACCAATGTTCCCAATCCTTATCCTCAGCTGTGAAGAGTGTAAAACCTCCGAAGTC
 CTAATCAGAACTACATCAAGATCGTTCCTTCTCCCCACCTCCTCTCCAGAAAGAACTCTAGAGTCCTT
 CTTTCTTGCCGATGAAGATTGTATGCAGGCCCAATCTATAGAACATATTCTACTAGCTATCCTGACACC
 ATGGAAAATTCAACATCTTCAAAACAGACACTGAAGACTCCTGGAAAAAGTTTACAAGGAGTAAGAGTT
 TGAATAATTTGCGAAACATGAAAAAGAGTATCTGTAATTTGCCACCAACAAGCCTGCAGAATCTGT
 TCAGTCAATAACTCCAGCTCATTCTGAATTTGGTTTTGCAAACCGTTTTTTCAAACCCAAAGGACCA
 AGGAATCCACCACCAACTTGAATATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231413 representing NM_001193431
 Red=Cloning site Green=Tags(s)

MDQREILQKFLDEAQSKEITKEEFANFLKLRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYDYSR
 VELSLITSDDEDSSYINANFIKGVYGPAYIATQGPLSTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCE
 RYWAEPGEMQLEFGPFVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDPSSIDPILELIW
 DVRCYQEDDVPICIHCSAGCGRTGVICAIIDYTWMLLKDGIIPENFSVFSLIEMRTQRPSTLVQTQEQYE
 LVYNAVLELFRQMDVIRDKHSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMNQRTKMEIKE
 SSSDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAFPIVGEPLQKHQSLDLGSL
 LFEGCSNSKPVNAAGRYFNSKVPITRTRKSTPFELIQQRETKEVDSKENFSYLESQPHDSCFVEMQAQKVM
 HVSSAELNYSPLPYDSKHQIRNASNVKHHDSALGVYSYIPLVENPYFSSWPPSGTSSKMSLDLPEKQDGT
 VFPSSLLPTSSTSLFSYNSHDSLSLNSPTNISSLLNQESAVLATAPRIDDEIPPLPVRTPEFIVVEE
 AGEFSPNVPKSLSSAVKSVKLRSPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIETYSTSYPTD
 MENSTSSKQTLKTPGKSFTRSKSLKILRNMKKICNSCPPNKAESVQSNSSSFLNFGFANRFSKPKGP
 RNPPPTWNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001193431

ORF Size: 2337 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:

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_001193431.2](#)

RefSeq ORF: 2340 bp

Locus ID: 26191

UniProt ID: [Q9Y2R2](#)

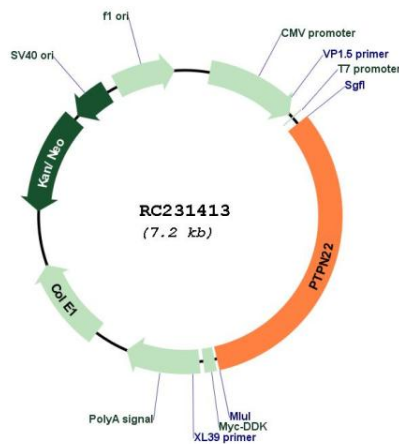
Cytogenetics: 1p13.2

Protein Families: Druggable Genome, Phosphatase

MW: 89.1 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 RC231413