

Product datasheet for **MC201915**

Ptpn22 (NM_008979) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn22 (NM_008979) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptpn22
Synonyms:	70zpep; PEP; Ptpn8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055377 sequence for NM_008979
AAGAGGTAATCCCCTCCCTTAACCTACTCACAGACTCTTGCTCTGCGGCATGGACCAAAGAGAAATTCTG
CAGCAACTACTGAAAGAAGCCCAGAAAAAGAACTCAACAGTGAGGAGTTTGCCAGTGAATTTCTGAAGC
TGAAAAGGCAATCCACCAAGTACAAGGCCGACAAAATCTATCCTACAACCTGTGGCTCAGAGGCCAAAGAA
TATCAAGAAAAACAGATAACAAGGATATTTTGCCTATGATCACAGCCTGGTAGAGCTGTCTTTGTTAACT
TCCGATGAGGATTCCAGTTACATCAATGCCAGCTTTATTTCAGGGTGTCTATGGACCAAGGCTTATATTG
CTACCCAGGGTCTTTTCTCAACTCTCTGGACTTCTGGAGGATGATTTGGGAGTACCCGATCTTGGT
CATTGTGATGGCATGTATGGAGTTTGAATGGGAAAGAAAAAATGTGAGCATTATTGGGCCGAACCAGGA
GAAACGCAGCTGCAATTTGGCCCTTTTCTATATCCTGTGAAGCTGAGAAAAAGAAATCTGATTATAAAA
TCAGGACTCTGAAGGCCAAGTTCAATAATGAACTCGAATTATTTACCAGTTTCATTATAAGAATTGGCC
AGACCATGATGTGCTTCATCTATAGACCCTATTCTTCAGCTCATCTGGGATATGCGTTGTACCAAGAA
GATGACTGTGTTCTATATGCATCACTGCAGTCCGGCTGCGGAAGGACAGGTGTCAATTTGTGCTGTTG
ATTATACATGGATGCTGCTGAAAGATGGGATAATTCCTAAGAACCTCAGTGTTTTAAATTTGATTACGGA
GATGCGAACACAGAGGCCCTTCGCTAGTTCAAACCTCAGGAACAGTACGAACTGGTCTACAGTGTGTTA
GAGCTGTTTAAAGAGGCACATGGATGTTATCTCTGATAATCACCTTGAAGAGAGATTCAAGCACAATGCT
CAATTCCTGAACAAAGCCTCACGGTAGAAGCTGACTCTTGTCTCTGGATTTACCAAAAAACGCCATGAG
GGATGTGAAAACGACAAACCAGCATAGCAACAAGGGGCTGAAGCGGAGAGCACTGGAGGGTCTTCCCTT
GGCCTTAGGACTTCTACGATGAATGCCGAGGAAGATTGGTTTTGCACTCGGCTAAATCAAGCCCTTCTT
TTAACTGTTTAGAGCTAAACTGCGGGTGTAAACAACAAGGCTGTCATAACCAGGAACGGGCAGGCAAGGGC
TTCTCCAGTCGTGGGAGAGCCCCCTCAGAAGTATCAAAGTCTGGATTTTGGTTCCATGTTGTTGGGTGCG
TGTCTAGTGTCTGCCATAAACACAGCGGACAGGTATCACAATTCAAAGGGCCGGTAAAACGGACCA
AATCAACTCCCTTTGAACTGATTACAGCAGAAAAACAATGACTTGGCCGTGGGAGACGGTTTTTTCATG
CCTGGAATCTCAGCTGCATGAGCATTACAGTCTCAGGGAGTTGCAGGTGCAAAGAGTGGCCATGTTTCT
TCAGAAGAGCTGAATTATTCACTGCCTGGTGCCTGTGATGCGTGTGTGTGCCCCGACAGCCCGGCG
CTTTGAGAGTGCATCTGTACACATCTTTAGCGGAAGATCCTTATTTTTTCATCATCCCTCCGAATAGTGC
TGATTCGAAGATGTCTTTTGTCTGCTGAGAAACAGGATGGAGCCACTCCCCTGGCGCTCTATTGCCA
GCCTCTTCTACAACCTCCTTTTATAGCAACCCACACGACTCCCTAGTGATGAACACTCTGACCAGCT
TTTCCCCACCGTTAAACCAAGAGACAGCTGTAGAAGCTCCTTCTCGGAGGACAGATGATGAAATCCCCC
GCCACTCCCTGAACGGACACCCGAGTCTTTTATTGTGGTTGAGGAAGCCGGAGAGCCCTCACCACGTGTT
ACCGAATCCTTACCTCTGGTGGTAACATTTGGAGCATCACCAGAATGCAGTGGGACATCTGAAATGAAGA
GCCATGACTCTGTAGGGTTTACACCAAGCAAGAATGTGAAACTCCGAAGTCCCAAATCAGATCGACATCA
GGATGGTTCTCCTCCACCTCCTCTCCCAGAAAGAACTCTAGAGTCTTCTTTCTTGTGATGAGGACTGT
ATACAGGCCCAAGCCGTGCAAACTTCTTCTACTAGCTATCCTGAAACCACAGAGAACTCCACATCTTCTA
AACAAACATTGAGGACCCCTGGAAAAAGTTTCAACAAGGAGTAAGAGTTTGAAGATTTTTCGAAATATGAA
AAAAAGTGTCTGTAATTTCTCCTCACCAAGCAAGCCTACAGAACGTGTTTCCAGCAAAAAATTCAGCTCC
TTTCTGAATTTTGGTTTCGGAAATCGTTTTTCAAACCCAAAGGACCAAGGAACCCGCCATCAGCTTGGAA
ATATGTAACGCACCTCTGGATTTATAAGAATATTTGTTAAATTTGTACCTGCAGATAAAGCTACTTGAAT
ACTGCTATAATAATAATATCAGTAATGAGGATATATTTTGTCAATAGTCTTGGAAAGGAAAGCAATATGT
GACAAACTTCCAGCAAACCTGTATTTTCATATTTCTTATATTTTACTGGGAACTGCCAATAAAGTTTGTGTA CTTCAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008979
Insert Size: 2409 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC055377 , AAH55377
RefSeq Size:	2675 bp
RefSeq ORF:	2409 bp
Locus ID:	19260
UniProt ID:	P29352
Cytogenetics:	3 F2.2
Gene Summary:	<p>Acts as negative regulator of T-cell receptor (TCR) signaling by direct dephosphorylation of the Src family kinases LCK and FYN, ITAMs of the TCRz/CD3 complex, as well as ZAP70, VAV, VCP and other key signaling molecules (By similarity). Associates with and probably dephosphorylates CBL (By similarity). Dephosphorylates LCK at its activating 'Tyr-394' residue (By similarity). Dephosphorylates ZAP70 at its activating 'Tyr-492' residue (By similarity). Dephosphorylates the immune system activator SKAP2 (By similarity). Positively regulates toll-like receptor (TLR)-induced type 1 interferon production (PubMed:23871208). Promotes host antiviral responses mediated by type 1 interferon (PubMed:23871208). Regulates NOD2-induced pro-inflammatory cytokine secretion and autophagy (PubMed:23991106). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes a protein.</p>