

Product datasheet for **MG210734**

Ptpn22 (NM_008979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn22 (NM_008979) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpn22
Synonyms:	70zpep; PEP; Ptpn8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210734 representing NM_008979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACCAAGAGAAATTCTGCAGCACTACTGAAAGAAGCCAGAAAAAGAACTCAACAGTGAGGAGT
 TTGCCAGTGAATTTCTGAAGCTGAAAAGGCAATCCACCAAGTACAAGGCCGACAAAATCTATCCTACAAC
 TGTGGCTCAGAGGCCAAGAATATCAAGAAAAACAGATACAAGGATATTTTGCCTATGATCACAGCCTG
 GTAGAGCTGTCTTTGTTAACTTCCGATGAGGATCCAGTTACATCAATGCCAGCTTTATTAGGGTGTCT
 ATGGACCAAGGCTTATATTGCTACCCAGGCTCTTTATCTACAACCTCCTGGACTTCTGGAGGATGAT
 TTGGGAGTACCGCATCTGGTCATTGTCATGGCATGTATGGAGTTTGAATGGGAAAGAAAAATGTGAG
 CATTATTGGGCCGAACCAGGAGAAACGCAGCTGCAATTTGGCCCTTTTCTATATCCTGTGAAGCTGAGA
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 CAGCCAAAAAATCCAGCTCCTTTCTGAATTTTGGTTTCGGAAATCGTTTTTCAAACCCAAAGGACCAA
 GGAACCCGCCATCAGCTTGAATATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210734 representing NM_008979
Red=Cloning site Green=Tags(s)

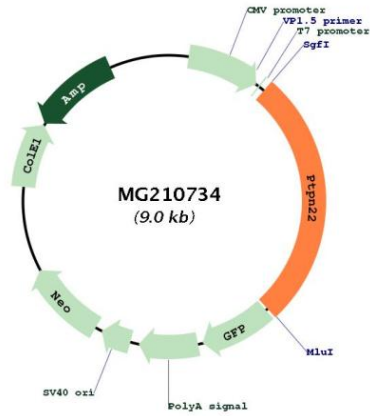
MDQREILQQLLKEAQKKLNSEEFASEFLKLRQSTKYKADKIYPTTVAQRPKNIKKNRYKDILPYDHS
VELSLLTSDSDSSYINASF IQGVYGP KAYIATQGPLSTLLDFWRMIWEYRILVIVMACMEFEMGKKKCE
HYWAEPGETQLQFGPFSISCEAEKKKSDYKIRTLKAKFNNETRIIYQFHYKNWPDHDVPSIDPILQLIW
DMRCYQEDDCVPICIHCSAGCGRTGVICAVDYTWMLLKDGIIPKNFSVFNLIQEMRTQRP SLVQTQEQYE
LVYSAVLEL FKRHMDVISDNHLGREIQAQCSIPEQSLTVEADSCPLDLPKNAMRDVKTTNQHSKQGAEAE
STGGSSGLRSTMNAAEELVLHSAKSSPSFNCLLNCGCNNKAVITRNGQARASPVVGEPLQKYQSLDF
GSMLFGSCPSALPINTADRYHNSKGPVKRTKSTPFELIQQRKTNDLAVGDGFSCLSQLHEHYSRELQV
QRVAHVSSEELNYS LPGACDASCVPRHSPGALRVHLYTSLAEDPYFSSSPPNSADSKMSFDLPEKQDGAT
SPGALLPASSTTSFFYSNPHDSLVMNTLTSFSPPLNQETA VEAPSRRDDEIPPLPERTPESFIVVEEA
GEPSPRVTESLPLVVTFGASPECSGTSEM KSHDSVGFTPSKNVKLRSPKSDRHQDGSPPPPLPERTLESF
FLADEDICQAQAVQTSSTSY PETTENSTSSKQTLRTPGKSFTRSKSLKIFRNMKKSVCNSSSPSKPTERV
QPKNSSSFLNFGFGRFSKPKGPRNPPSAWNM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_008979.1, NP_033005.1</p>
RefSeq Size:	<p>2734 bp</p>
RefSeq ORF:	<p>2409 bp</p>
Locus ID:	<p>19260</p>
UniProt ID:	<p>P29352</p>
Cytogenetics:	<p>3 F2.2</p>
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>

Product images:



Circular map for MG210734