

Product datasheet for **MG210585**

Ptpn12 (NM_011203) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn12 (NM_011203) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptpn12
Synonyms:	P19-PTP; PTP-P19; PTP-PEST; PTPG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210585 representing NM_011203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAAGTGGAGATCCTGAGGAGTTCATCCAGAGGTCCAGGCCATGAAGAGTCCGGATCACAATG
 GGGAGGACAACCTCGCCCGGACTTCATGCGATTGAGAAGATTGTCTACCAAATATAGAACAGAAAAGAT
 TTATCCACAGCCACTGGAGAAAAAGAAGAAATGTTAAAAAGAACAGATATAAGGACATACTGCCATTT
 GATCACAGCCGAGTTAAGTTGACTTTGAAGACTCCATCCCAAGATTCAGATTATATCAATGCAAATTTTA
 TTAAGGGTGTGTATGGGCCAAAAGCATATGTGGCAACCAAGGGCCTTTGGCGAATACAGTCATAGACTT
 CTGGAGGATGATATGGGAGTATAATGTTGTGATCATCGTATGGCCTGTCGAGAATTTGAGATGGGAAGG
 AAAAGTGTGAGCGCTACTGGCCTTTGTATGGAGAAGATCCTATAACATTTGCACCATTTAAATTTCTT
 GTGAAAATGAACAAGCAAGAACCGACTACTTCATCCGAACACTTTTACTGAATTTCAAATGAATCCCG
 TCGGCTCTATCAGTTTCATTACGTGAATGGCCAGACCATGATGTTCTTCGTCATTTGATTCTATTCTG
 GACATGATAAGCTTAATGAGGAAATACCAAGAACATGAAGATGTGCTATTTGTATTTCATTGCAGTGCAG
 GCTGTGGACGAACAGGTGCTATTTGTGCCATAGATTACACGTGGAACCTACTGAAAGCAGGAAAAATTC
 AGAGGAATTTAATGTATTTAATTAACAAGAAATGAGAACACAGAGGCACTCGGCAGTACAAACAAAAG
 GAGCAGTATGAACCTGTTCATAGGGCTATTGCTCAACTGTTTGAACCAAGCTACAACTGTATGAAATTC
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 GAAGCAAGACTCTCTCCGCCAAAGCCACCGGGACTCGAAGTTGCCTTGTAGAAGGGGATGCCAAGGAA
 GAAATACTACAGCCACCAGAACCTCACCGGTGCCACCCATCTGACGCCATCACCTCCTCAGCCTTCC
 CAACCGTTACCCTGTGTGGCAGGACAGTGACAGGTACCACCAAGCCAGTGTGCACATGGCCTCACC
 AGAGCAACACCCAGCCGACCTCAACAGAAGCTATGATAAATCAGCGGACCAATGGGGAAAAAGTGAATCA
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 TCTCAGAATTCTGCGCGGACTGTAGTGCAGCTCATTACACAGAGCTGCTGAGTCGTGAGGAGTCCC
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 ACTTCATGGACCTGAAAATGCCACACCTGTACCCGACTCACCTGACGGCAAATCCCAGATAATCATTCT
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 CTCAGACGGAGGGAGCTCTGATGGTGTGTGACCAGGAACAAAACCTAGCATTTCACAGCAAGTGCCACA
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 AATCAGGAGTGGTCTGAACAAAGGGAATCTGAAGGCTTGACAACCTCTGGAAATGAAAAACATGATGCAG
 GGGGCATCCACACAGAGGCTTCTGCAGACTCTCCACCTGCTTTCAGTGACAAGAAAGATCAAATAACAAA
 AAGTCCAGCAGAAGTACAGATATTGGTTTTGGTAATCGCTGTGGAAAACCTAAAGGACCAAGAGAGCCA
 CCTTCAGAATGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210585 representing NM_011203
 Red=Cloning site Green=Tags(s)

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MEQVEILRRFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPF
DHSRVKLTLPKTPSQSDSYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGR
KKCERYWPLYGEDPITFAPFKISCENEQARTDYFIRTLLEFQNESRRLYQFHVYNWPDHDVPSFFSIL
DMISLMRKYQEHEDEVPICIHCSAGCGRTGAICAIDYTNLLKAGKIPPEEFNVFNLIQEMRTQRHSAVQTK
EQYELVHRAIAQLFEKQLQLEYEIHGAQKIADGNEITGTMTVSSIDSEKQDSPPPKPPRTRSCLEVGDAKE
EILQPPEHPVPPILTPSPPSAFPTVTTVWQSDRYHPKPVLMASPEQHPADLNRSYDKSADPMGKSES
AIEHIDKKLERNLSFEIKKVPLQEGPKSFDGNTLLNRGHAIKIKSASSSVVDRTSKPQELSAGALKVDDV
SQNSCADCSAAHSHRAAESSEESQNSHTPPRPDCLPLDKKGHTWSLHGPENATVPDSDPGKSPDNHS
QTLKTVSSTPNSTAEAAHDLTEHHNSPLLKAPLSFTNPLHSDSDSDGGSSDGA VTRNKTSISTASAT
VSPASSAESACTRRVLPMSIARQEVAGTPHSGAEKDADVSEESPPPLPERTPEFVLADMPVRPEWHELP
NQEWSEQRESEGLTTSGNEKHDAGGIHTEASADSPPAFSDKKDQITKSPAEVTDIGFGNRCGKPKGPREP
PSEWT
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011203

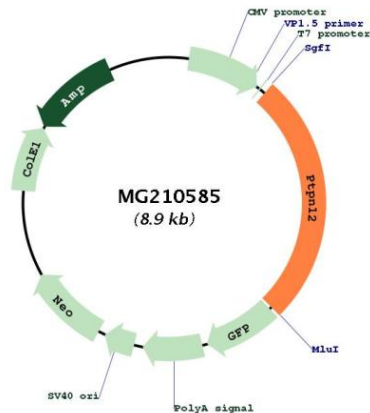
ORF Size: 2325 bp

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_011203.3](#)
- RefSeq Size:** 3190 bp
- RefSeq ORF:** 2328 bp
- Locus ID:** 19248
- UniProt ID:** [P35831](#)
- Cytogenetics:** 5 A3
- Gene Summary:** Dephosphorylates a range of proteins, and thereby regulates cellular signaling cascades (PubMed:17070019). Dephosphorylates cellular tyrosine kinases, such as ERBB2 and PTK2B/PYK2, and thereby regulates signaling via ERBB2 and PTK2B/PYK2. Selectively dephosphorylates ERBB2 phosphorylated at 'Tyr-1112', 'Tyr-1196', and/or 'Tyr-1248' (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210585