

Product datasheet for **MR210585**

Ptpn12 (NM_011203) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptpn12 (NM_011203) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptpn12
Synonyms:	P19-PTP; PTP-P19; PTP-PEST; PTPG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210585 representing NM_011203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAAGTGGAGATCCTGAGGAGTTCATCCAGAGGTTCCAGGCCATGAAGAGTCCGGATCACAATG
 GGGAGGACAACCTCGCCCGGACTTCATGCGATTGAGAAGATTGTCTACCAAATATAGAACAGAAAAGAT
 TTATCCACAGCCACTGGAGAAAAAGAAAATGTTAAAAAGAACAGATATAAGGACATACTGCCATTT
 GATCACAGCCGAGTTAAGTTGACTTTGAAGACTCCATCCCAAGATTCAGATTATATCAATGCAAATTTTA
 TTAAGGGTGTGTATGGGCCAAAAGCATATGTGGCAACCAAGGGCCTTTGGCGAATACAGTCATAGACTT
 CTGGAGGATGATATGGGAGTATAATGTTGTGATCATCGTGATGGCCTGTCGAGAATTTGAGATGGGAAGG
 AAAAGTGTGAGCGCTACTGGCCTTTGTATGGAGAAGATCCTATAACATTTGCACCATTTAAATTTCTT
 GTGAAAATGAACAAGCAAGAACCGACTACTTCATCCGAACACTTTTACTTGAATTTCAAATGAATCCCG
 TCGGCTCTATCAGTTTCATTACGTGAATGGCCAGACCATGATGTTCTTCGTCATTTGATTCTATTCTG
 GACATGATAAGCTTAATGAGGAAATACCAAGAACATGAAGATGTGCTATTTGTATTTCATTGCAGTGCAG
 GCTGTGGACGAACAGGTGCTATTTGTGCCATAGATTACACGTGGAACCTACTGAAAGCAGGGAAAATTC
 AGAGGAATTTAATGTATTTAATTAACAAGAAATGAGAACACAGAGGCACTCGGCAGTACAAACAAAAG
 GAGCAGTATGAACCTGTTTCATAGGGCTATTGCTCAACTGTTTGAACCAAGCTACAACTGTATGAAATTC
 ATGGAGCACAGAAGATCGCTGATGGTAATGAAATACCACTGGAACATGGTCAGTTCATTGATAGCGA
 GAAGCAAGACTCTCTCCGCCAAAGCCACCGGGACTCGAAGTTGCCCTGTAGAAGGGGATGCCAAGGAA
 GAAATACTACAGCCACCAGAACCTCACCGGTGCCACCCATCTGACGCCATCACCTCTCAGCCTTCC
 CAACCGTTACCCTGTGTGGCAGGACAGTGACAGGTACCACCAAGCCAGTGTGCACATGGCCTCACC
 AGAGCAACACCCAGCCGACCTCAACAGAAGCTATGATAAATCAGCGGACCAATGGGGAAAAGTGAATCA
 GCTATTGAGCACATAGATAAGAAGTTAGAGCGCAATTTAAGTTTTGAGATTAAGAAAAGTCCCTCTCCAAG
 AAGGGCCAAAAGTTTTGATGGGAACACACTCTTGAATAGGGGACATGCGATTAATAAATCTGCTTC
 ATCTTCTGTAGTTGACAGAACCTCTAAACCACAGGAGTTAAGTGCAGGTGCCCTAAAGGTTGATGATGA
 TCTCAGAATTCTGCGCGGACTGTAGTGCAGCTCATTACACAGAGCTGCTGAGTCGTGAGGAGTCCC
 AGAGCAACTCACACACCTCCACGGCCAGACTGCTTGCCTCTCGATAAGAAAGGACACGTAACGTGGTC
 ACTTCATGGACCTGAAAATGCCACACCTGTACCCGACTCACCTGACGGCAAATCCCAGATAATCATTCT
 CAGACTCTGAAAACCGTGAGTTCCACACCAACTCCACCCGAGAAGAGGAAGCCACGATCTTACAGAGC
 ACCACAACAGCTCCCCTCTGTTGAAAGCTCCCCTCAGCTTTACCAACCCTCTTCACTCTGACGACTCGGA
 CTCAGACGGAGGGAGCTCTGATGGTGTGTGACCAGGAACAAAATAGCATTTCACAGCAAGTGCCACA
 GTGTCTCCTGCCAGTAGTGTGAGAGTGTGCTGACTAGGAGAGTATTGCCGATGTCCATTGCCAGACAGG
 AAGTAGCAGGCACGCCGATTACAGTGTGAGAAAAGATGCTGATGTTAGTGAAGAGTGCAGTGCCTCTCT
 ACCTGAACGAACCTCTGAGTCTTTTGTATTAGCAGATATGCCTGTAAAGACCTGAGTGGCATGAACTTCA
 AATCAGGAGTGGTCTGAACAAAGGGAATCTGAAGGCTTGACAACCTCTGGAAATGAAAACATGATGCAG
 GGGGATCCACACAGAGGCTTCTGCAGACTCTCCACCTGCTTTCAGTGACAAGAAAGATCAAATAACAAA
 AAGTCCAGCAGAAGTACAGATATTGGTTTTGGTAATCGCTGTGGAAAACCTAAAGGACCAAGAGAGCCA
 CCTTCAGAATGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210585 representing NM_011203
Red=Cloning site Green=Tags(s)

MEQVEILRRFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPF
DHSRVKLTLPKTPSQSDSYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGR
KKCERYWPLYGEDPITFAPFKISCENEQARTDYFIRTLLEFQNESRRLYQFHVYNWPDHDPSSFDLIL
DMISLMRKYQEHEVPICIHCSAGCGRTGAICAIDYTNLLKAGKIPPEEFNVFNLIQEMRTQRHSAVQTK
EQYELVHRAIAQLFEKQLQLEYIHGAQKIADGNEITGTVMVSSIDSEKQDSPPPPIPRTSCLVEGDAKE
EILQPPEPHPVPPILTPSPPSAFPTVTTVWQSDRYHPKPVLMASPEQHPADLNRSYDKSADPMGKSES
AIEHIDKKLERNLSFEIKKVPLQEGPKSFDGNTLLNRGHAIKIKSASSSVVDRTSKPQELSAGALKVDDV
SQNSCADCSAAHSHRAAESSEESQSNSTPPRPDCLPLDKKGHTWSLHGPNATVPDSDPGKSPDNHS
QTLKTVSSTPNSTAEAAHDLTEHHNSSPLLKAPLSFTNPLHSDSDSDGGSSDGAVTRNKSISTASAT
VSPASSAESACTRRVLPMSIARQEVAGTPHSGAEKDADVSEESPPPLPERTPESFVLADMPVRPEWHELP
NQEWSEQRESEGLTTSNGNEKHDAGGIHTEASADSPPAFSDKKDQITKSPAEVTDIGFGNRCGKPKGPREP
PSEWT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9037_c04.zip

Restriction Sites: Sgfl-Mlul

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

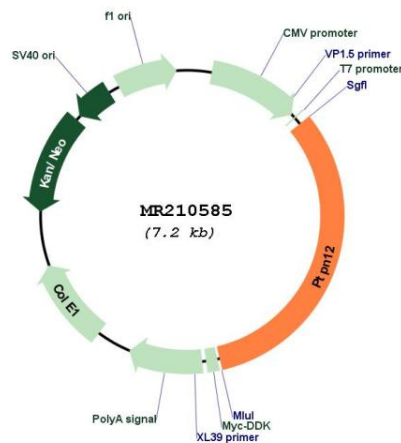
UniProt ID: [P35831](#)

Cytogenetics: 5 A3

MW: 87 kDa

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 MR210585