PTPN3 cDNA Clone – Protein Tyrosine Phosphatase, Non-Receptor Type 3 (Human)

PRODUCT OVERVIEW

Product Name	PTPN3, cDNA Clone
Full Product Name	PTPN3 cDNA Clone
Product Gene Name	PTPN3 cdna clone
Sequence	atgacctccc ggttacgtgc gttgggtgga agaattaata atatacgcac ctcggagtta cccaaagaga aaactcgatc agaagtcatt tgcagcatcc actttttaga tggcgtggta cagaccttta aagttactaa acaagacact ggccaggttc ttctggatat ggtgcacaac cacctgggtg tgactgaaaa ggaatatttt ggtttacagc atgatgacga ctccgtggac tctcctagat ggctggaagc aagcaaagcc atcaggaagc agttaaaagg aggtttcccc tgtaccctgc attttcgagt aagatttttt atacctgatc ccaacacact gcagcaagaa caaaccaggc acttgtattt cttacaactg aagatggata tttgcgaagg aaggttaacc tgccctctta actcagcagt ggttctagcg tcctatgccg tacaatctca ttttggagac tataattctt ccatacatca tccaggctat ctttccgata gtcactttat acccgatcaa aatgaggact ttttaacaaa agtcgaatct ctgcatgagc agcacagtgg gctaaaacaa tcagaagcag aatcctgcta tatcaacata gcgcggaccc tcgacttcta tggagtagaa ctgcacagtg gtagggatct gcacaattta gacctaatga ttggaattgc ttccgcgggt gttgctgtgt accgaaaata catttgcaca agtttctatc cttgggtgaa cattctcaaa atttctttca aaaggaaaaa gttcttcata catcagcgac agaaacaggc tgaatccagg gaacatattg tggccttcaa catgctgaat taccgatctt gcaaaaactt gtggaaatcc tgtgttgagc accatacgtt ctttcaggca aagaagctac tacctcagga aaagaatgtt ctgtctcagt actggactat gggctctcgg aacaccaaaa agtcggtaaa taaccaatat tgcaaaaagg tgattggcgg gatggtgtgg aacccagcca tgcggagatc cttatcagtg gagcacttag aaaccaagag tctgccttct cgttcccctc ccattactcc caactggcga agtcctcggc tccggcacga aatccgaaag ccacgccact cttctgcaga taaccttgca aatgaaatga cctacatcac ggaaacggaa gatgtatttt acacgtacaa gggctctctg gcccctcaag acagcgattc tgaagtttct cagaaccgaa gcccgcacca agagagttta tccgagaaca atccggcaca aagctacctg acccagaagt catccagttc tgtgtctcca tcttcaaatg ctccaggctc ctgctcacct gacggcgttg atcagcagct cttagatgac ttccacaggg tgaccaaagg gggctccacc gaggacgcca gccagtacta ctgtgacaag aatgataatg gtgacagcta cttagtcttg atccgtatca caccagatga agatggaaaa tttggattta atcttaaggg aggagtggat caaaagatgc ctcttgtggt atcaaggata aacccagagt cacctgcgga cacctgcatt cctaagctga acgaagggga tcaaatcgtg ttaatcaatg gccgggacat ctcagaacac acgcatgacc aagtggtgat gttcatcaaa gccagccggg agtcccactc acgggagctg gccctggtga tcaggaggag agctgtccgc tcatttgctg acttcaagtc tgaagatgaa ctgaaccagc ttttccccga agccattttc cccatgtgtc cggagggtgg ggacactttg gagggatcca tggcacagct aaagaagggc ctcgaaagcg ggacggtgct gatccagttt gagcaactct acagaaaaaa gccaggtttg gccatcacgt ttgcaaagct gcctcaaaat ttggacaaaa accgatataa agatgtgctg ccttatgaca ccacccgggt attattgcag ggaaatgaag attatattaa tgcaagttac gtgaacatgg aaattcctgc tgctaacctt gtgaacaagt acatcgccac tcaggggccc ctgccgcata cctgtgcaca gttttggcag gttgtctggg atcagaagtt gtcactcatt gtcatgttga cgactctcac agaacgaggg cggaccaaat gtcaccagta ctggccagat ccccccgacg tcatgaacca cggcggcttt cacatccagt gtcagtcaga ggactgcacc atcgcctatg tgtcccgaga aatgctggtc acaaacaccc agaccgggga agaacacaca gtgacacatc tccagtacgt cgcatggcct gaccacggtg tgcccgatga ctcctccgac tttctggaat ttgtaaacta tgtgaggtct ctgagagtgg acagcgagcc cgtcctagtt cactgcagtg ctggaatagg tcgaaccggt gtgttggtca ctatggaaac agccatgtgc ctaactgaga ggaacctgcc catttaccca ctggatattg tccgaaaaat gcgagaccag cgcgccatga tggtgcagac atcaagccag tacaagtttg tgtgtgaagc gattcttcgt gtgtatgaag aaggtttagt ccaaatgctg gatcctagtt aa
Molecular Weight	83,723 Da
OMIM	176877
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PTPN3 cdna clone	MBS1273630 is a cDNA clone targeting PTPN3.
Other Notes	Small volumes of PTPN3 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPN3. It may not necessarily be applicable to this product.

NCBI GI #	116496600

NCBI GeneID	5774
NCBI Accession #	BC126117
UniProt Secondary Accession #	A0AUW9; E7EN99; E9PGU7
UniProt Related Accession #	P26045
NCBI Official Full Name	Homo sapiens protein tyrosine phosphatase, non-receptor type 3, mRNA
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 3
NCBI Official Symbol	PTPN3
NCBI Official Synonym Symbols	PTPH1; PTP-H1
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 3
UniProt Synonym Protein Names	Protein-tyrosine phosphatase H1; PTP-H1
Protein Family	Tyrosine-protein phosphatase non-receptor
UniProt Gene Name	PTPN3
UniProt Synonym Gene Names	PTPH1; PTP-H1
UniProt Entry Name	PTN3_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 3
NCBI Summary for PTPN3	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This protein contains a C-terminal PTP domain and an N-terminal domain homologous to the band 4.1 superfamily of cytoskeletal-associated proteins. P97, a cell cycle regulator involved in a variety of membrane related functions, has been shown to be a substrate of this PTP. This PTP was also found to interact with, and be regulated by adaptor protein 14-3-3 beta. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]
UniProt Comments for PTPN3	PTPN3: May act at junctions between the membrane and the cytoskeleton. Possesses tyrosine phosphatase activity. Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Protein type: Protein phosphatase, tyrosine (non-receptor); Motility/polarity/chemotaxis; EC 3.1.3.48 Chromosomal Location of Human Ortholog: 9q31 Cellular Component: cytoplasm; internal side of plasma membrane Molecular Function: ATPase binding; phosphotyrosine binding; protein binding; protein tyrosine phosphatase activity; sodium channel regulator activity Biological Process: negative regulation of membrane protein ectodomain proteolysis; negative regulation of mitotic cell cycle; protein amino acid dephosphorylation
Research Articles on PTPN3	**1.** Results indicate that protein tyrosine phosphatase non-receptor type 3 (PTPN3) may act as a tumor suppressor in lung cancer through its modulation of epidermal growth factor receptor (EGFR) signaling.
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