

Product datasheet for **RG211010**

PTPD2 (PTPN14) (NM_005401) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPD2 (PTPN14) (NM_005401) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTPD2
Synonyms:	CATLPH; PEZ; PTP36; PTPD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211010 representing NM_005401 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTTTTGGTCTGAAGCTCCGCCGGACACGGCGCTACAACGTCTGAGCAAGAAGTCTTTGTCACAC
GGATTCGCTGCTGGACAGCAATGTTATCGAGTGCACGCTGTCGGTGGAAAGCACAGGGCAAGAATGCCT
GGAGGCTGTGGCCAGAGGCTGGAGCTGCGAGAGACGCACTACTTTGGCCTTTGGTTTCTCAGCAAGAGC
CAGCAAGCAGCATGGGTGGAGCTGGAGAAACCTCTGAAGAAACATCTGGACAAATTCGCTAATGAGCCTT
TGCTTTTCTTTGGAGTCATGTTCTATGTGCCAAATGTGTCATGGCTTCAGCAAGAGGCCACAAGATATCA
GTATTACCTGCAAGTCAAAAAGATGTGCTTGAAGGGCGATTACGATGTACATTGGACCAGGTGATTCGG
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CCAAGAACACAAAGCCCACAGTGGAAATCCTGCCAGCAGAAGCTGAACTGATGTACATCAATGAAGTTGAA
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TTTTCTTTATGGGGATTTTCGTGAGGAACAGAATTGGAAGACAAGCGGTAATATACAGGTGGAATGACAT
GGGGAATCACTCATAACAAGTCGACCATTCTAGTGGAGCTCATCAACAAGAAGAGACTGCCCTCTTT
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CGGGAGAGGCACCCCTACACTGTCCCTTATGGGCCACAGGGGTCTACAGCAACAACTTGTCAAGTCCAT
CTGACCAGAGGAACCCAAAGAATAATGTGGTACCAAGCAAGCCGGGGCAAGCGCCATCTCGCACACGGT
GAGCACCCAGAGCTGGCCAACATGCAGCTGCAGGGCAGCCATAACTACAGCACGGCCACATGCTTAAG
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CGCTCAGTACAAGTTTGTCTACCAAGTCTCATCCAGTTCCTCCAAAACCTCCAGACTCATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG211010 representing NM_005401
 Red=Cloning site Green=Tags(s)

MPFGLKLRRTRRYNVLSKNCFVTRIRLLDSNVIECTLSVESTGQECLEAVAQRLELRETHYFGLWFLSKS
 QQARWVELEKPLKKHLDFANEPLFFGVMFYVPNVSWLQQEATRYQYYLQVKKDVLREGRLRCLTDQVIR
 LAGLAVQADFQDYNQFDSQDFLREYVLPMDLALAEAVLEELTQKVAQEHKAHSGILPAEAEALMYINEVE
 RLDGFGQGEIFPVKDNHGNCVHLGIFFMGIFVRNRIGRQAVIYRWNDMGNI THNKSTILVELINKEETALF
 HTDDIENAKYISRLFATRHKFYKQNKICTEQSNSPPPIRRQPTWSRSSLPRQQPYILPPVHVQCCEHYSE
 THTSQDSIFHGNEEALYCNSHNSLDLNYLNGVTNGSVCSVHNSVNSLNCSSQFSIQASPVSSNL SIPGSDI
 MRADYIPSHRHSIIIVPSYRPTPDYETVMRQMKRGILHTDSQSQSLRNLNIINTHAYNQPEDLVYSQPEM
 RERHPYTPVYGPQGVYSNKLVSQSDQRNPKNNVVP SKPGASAI SHTVSTPELANMQLQGS HNYSTAHMLK
 NYLFRPPPPYPRPRPATSTPDLASHRHKYVSGSSPDLVTRKVLQSVKTFQEDSSPVVHQLQEVSEPLTA
 TKHHGTVNKRHSLEVMNSMVRGMEAMTLKSLHLPARRNTRLREQGPEEGSGSHEVPQLPQYHHKTFSD
 ATMLIHSSEEEEEEAPE SVPQIPMLREKMEYSAQLQAALARIPNKPPPEYGPGRKSVSNGALRQDQAS
 LPPAMARARVLRHGPAKAI SMSRTDPPAVNGASLGPSISEPDLTSVKERVKKEPVKERPVSEMF SLED SI
 IEREMMIRNLEKQKMAGLEAQKRPLMLAALNGLSVARVSGREENRVDATRVPMDERFRTLKKKLEEGMVF
 TEYEQIPKKKANGIFSTAALPENASRIREVVPYEENRVELIPTKENNTGYINASHIKVVVGGAEWHYI
 ATQGPLPHTCHDFWQMVWEQGVNVIAMVTAEEEGGRTKSHRYWPKLGSKHSSATYGFVTKFRTDSVC
 YATTGLKVKHLLSGQERTVWHLQYTDWPDHGCPEDVQGFLSYLEEIQSVRRHTNSMLEGTKNRHPPVIVH
 CSAGVGRGTGVLILSELMICYLEHNEKVEVPMLRLREQRMFMIQTIAQYKFVYQVLIQFLQNSRLI

TRTRPLE - GFP Tag - V

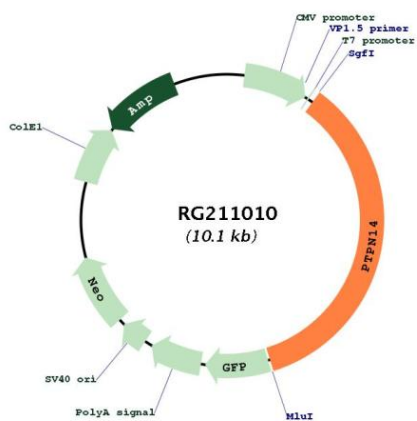
Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_005401
 ORF Size: 3561 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:	<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:	NM_005401.3 , NP_005392.2
RefSeq Size:	4089 bp
RefSeq ORF:	3564 bp
Locus ID:	5784
UniProt ID:	Q15678
Cytogenetics:	1q32.3-q41
Protein Families:	Druggable Genome
Gene Summary:	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 PTP contains an N-terminal noncatalytic domain similar to that of band 4.1 superfamily cytoskeleton-associated proteins, which suggested the membrane or cytoskeleton localization of this protein. It appears to regulate lymphatic development in mammals, and a loss of function mutation has been found in a kindred with a lymphedema-choanal atresia. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RG211010