

Product datasheet for SC118371

PTPRZ1 (NM_002851) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTPRZ1 (NM_002851) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTPRZ1
Synonyms:	HPTPZ; HPTPzeta; phosphacan; PTP-ZETA; PTP18; PTPRZ; PTPZ; R-PTP-zeta-2; RPTPB; RPTPbeta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002851 edited
GGCGGCCGGAATTCGGCAGCAGGAAACATTTCCCTTCGCTCCCCCTCCCTCTCCACTCTG
AGAAGCAGAGGACCCGCACGGCGAGGGCCGACACCGTCTGAAATGCGAAGCCTAAAG
CGTTTCCCTCGCTTGCATTCACTCCTCTGTGTTTGCCGCCTGGATTGGGCTAATGGATAC
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 CTGCCACCTCACACTGTGGAAGGTACTTCAGCCTCTTTAAATGATGGCTCTAAAAGTGT
 CTTAGATCTCCACATATGAACTTGTGCGGGACTGCAGAATCCTTAAATACAGTTTCTATA
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 GGGTATATATTTTCTCCGAAAACCCAGAGACAATAACATATGATGTCCTTATACCAGAA
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 TCGCAGACAACCCAACCGGTATACAATGGTGAGACACCTTTCAACCTTCTACAGTAGT
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ACCAAACATTGTTCAAATGGTTTTTATCCAAGGAATTGCAAAAATAAATATAAATATTGC
CATTAAAAAAAAAAAAAAAAAAAC

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_002851 unedited
 NGGGGGTGCAAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGGA
 AACATTTCTTCGCTCCCTCCCTCTCCACTCTGAGAAGCAGAGAGCCGCACGGCGAG
 GGGCCGACAGACCGTCTGGAATGCGAAGCCTAAAGCGTTTCCTCGCTTGCAATCAGCTCC
 TCTGTGTTTGGCCCTGGATTGGGCTAATGGATACTACAGACAACAGAGAAAACCTGTTG
 AAGAGATTGGCTGGTCTATACAGGAGCACTGAATCAAAAAATGGGGAAGAAATATC
 CAACATGTAATAGCCAAAAACAATCTCCTATCAATATTGATGAAGATCTTACACAAGTAA
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 TCATTCATAACTGGGAAAAACAGTGGAAATTAATCTCACTAATGACTACCGTGTGAGCG
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 CATTCACTGTTGAACCTTCTGCCAACTCACTGACAAGTATTACATTTACAATGGCTC
 ATTGACATCTNCTNCCTGCACAGACACAGTTGACTGGATTTGTTTTAAGAACAGNTAG
 CATCTCTGAAAGCCAGTNG

**3' Read Nucleotide
Sequence:**

>OriGene 3' read for NM_002851 unedited
 NAAAACTACTGTGNACCGCGCGCCTTCTNCTANGATCGAGTTTTTTTTTTTTTTTTTTA
 ATGGCAATATTTATATTTATTTTGAATTCCTTGGATAAAAAACCATTTGAACAATGTTT
 GGTAAAGGTGTTATTCTCATAAAAACTTCTTTCAAATGAAGGTATTTCTATTTCCACAA
 AAGTAAAATTACATGCTNGAAACAAAGTTAATGACTTAGGTAACACAATACAATGTCAG
 AAACTGGTAGAGTAAGACCAGCTAATGAACTACGTCATTAACATAACAATTACACAGA
 ACTAGAAAACCTGACTCAGTAGTAAAATAAAAAATCTACAATTATAAATATAAATTTGG
 TCCATGGAGACTAGGGCAGTATTTACAATAAGTAACAGATTATTTCTACTTTAGGTGA
 ATACTGCAGTTGTAATGTTGAATATCATATGGAAGAGTGTATTTTACAGGCTACTG
 TATTAAGATTATATTTCTAGCAACCTGATAATTGCTACAAATACAGCTAAAAATTTGA
 CACTAAAAACAACATTTTCTGTAGTTTGGAAATTCCTAACCTCTATAAATGAAATTTTC
 TGTTAAAATCAATACAGAAAAAATACCACAATCCATTTCTAGAAAATACTGTAATTC
 AATCATTTTAGTTCAAACATAATAAGTAAATACAAGTCTTGCAAAAAGGCACACATTGT
 TAATGATATAAATTTGGCGGCAGAAATCCTATGTCATGAAAGTTACTGTCANGTGATGGG
 AAATCAACAGATAACAGAACTAGACTGATTTTCTGCCTAATTTTAGGAAGAGAAAAACA
 TGCTCAGATGTGAGTCCCCCCCCCTTCTGTGTTAACTAAAGACTCTAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_002851

Insert Size:

8000 bp

OTI Disclaimer: 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.

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](#)

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_002851.1](#), [NP_002842.1](#)

RefSeq Size: 7941 bp

RefSeq ORF: 6945 bp

Locus ID: 5803

UniProt ID: [P23471](#)

Cytogenetics: 7q31.32

Domains: Y_phosphatase, carb_anhydrase, PTPc_motif, FN3

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Protein Pathways: Epithelial cell signaling in Helicobacter pylori infection

Gene Summary: This gene encodes a member of the receptor protein tyrosine phosphatase family. Expression of this gene is restricted to the central nervous system (CNS), and it may be involved in the regulation of specific developmental processes in the CNS. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]

Transcript Variant: This variant (1) encodes the longest isoform (1).