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Product datasheet for MC225263

Ptprq (NM_001081432) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprq (NM_001081432) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ptprq
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225263 representing NM_001081432 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGATTTTCTTTTCTTTTTTCTTTTCTCTCTCATTGGAACTTCAGAGTCACAGGTTGATGTTTCTGGTT CTTTTGATGACACTGTGTATGATATCACGCTGTCTTCAATTTCTGCCACAACCTACAGCTCACCCGTGAG TAGAACACTGGCAACAAATGTGTCAAAACCGGGGCCTCCAGTCTTCCTAGCCGGGGAGAGAGTTGGCTCT GCCGGGATTCTCCTTTCATGGAATACCCCTCCTAACCCAAATGGAAGAATCATATCGTATGTTGTTAAAT ACAAGGAAGTGTGTCCATGGATGCAGACAGCGTATACCCGAGTGAGAGCGAAGCCCGACAGTCTGGAGGT CCTTCTCACTAACCTTAACCCTGGAACAACATACGAGATTAAGGTTGCTGCCGAAAACAGCGCTGGCATT GGAGTGTTTAGTGACCCATTTCTTTTTCAAACCGCAGAAAGTGCTCCAGGGAAAGTGGTTAACCTCACAG TGGAGGCCCTCAACTATTCTGCAGTAAACTTGATTTGGTATTTACCTCGGCAACCAAATGGTAAAATCAC CAGCTTCAAGATCAGTGTCAAACACGCCAGAAGCGGTATAGTAGTGAAGGATGTCTCCATCAAAGTAGAG GACCTTTTATCTGGGAAATTACCTGAATGTAATGAGAACAGTGACTCTTTTCTGTGGAGTACCACCAGCC CCTCTCCAACCCTCAGTAGAGCCACACCTCCACTTCGTACTACACATTTATCCAACACATTGGCACGGAA TAAGATCAGCTCTGTGTGGAAAGAGCCCATCAGCTTTGTGGTGACTCACTTGAGACCATACACAACGTAT CTCTTTGAAGTTTCAGCCGTTACGACGGAAGCAGGGTATATTGACAGTACCATTGTTAGGACACCAGAAT CAGTGCCTGAAGGACCACCCCAGAACTGTATAACAGGCAATGTCACAGGAAAGGCGTTTTCAATTTCATG GGACCCACCAGCAATTGTCACAGGAAAGTTTAGTTACAGAGTTGAATTATATGGGCCAACAGGAAGGATT TTGGATAATAGTACAAAAGACCTCCGGTTTGTGTTTACGCATCTCACGCCATTCACAATGTATGATGTCT ATGTTGCTGCAGAAACCAGTGCTGGGGTTGGACCCAAGTCAAATCTTTCAGTATTCACTCCCCCAGATGT TCCAGGAGCAGTGTTTGATTTACAGATCGTGGAGGTAGAAGCCACAGAAATAAGAGTTTCTTGGAGGAAA CCTCGACAACCAAATGGAATCATCAGCCAGTACCGTGTAAAAGTGTCAGTCCTAGAGTCAGGAGTCATTT TGGAAAACACTCTGCTCACAGGACAAGATGAGTATATAAACAACCCCATGACTCCAGAAATAATGAACCT AGTAGACCCAATGATAGGATTCTATGAGGGCTCAGGAGAGATGTCTTCAGACCTGCACTCCCTGGCTTCG TTCATATACAACAGCCATCCACACGACTTTCCTGCCAGGACAAGAGTTGAAGACCAAAGATCACCAGTTG TGGCCACCAGGAATCAGTATATGACTGACATTGCTGCTGAACACCTGTCTTATGTTATCAGGCGGCTTGT

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081432

Insert Size: 6903 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:	NM_001081432.1, NP_001074901.1
RefSeq Size:	7058 bp
RefSeq ORF:	6903 bp
Locus ID:	237523
UniProt ID:	P0C5E4
Cytogenetics:	10 55.97 cM
Gene Summary:	Phosphatidylinositol phosphatase required for auditory function. May act by regulating the level of phosphatidylinositol 4,5-bisphosphate (PIP2) level in the basal region of hair bundles. Can dephosphorylate a broad range of phosphatidylinositol phosphates, including phosphatidylinositol 3,4,5-trisphosphate and most phosphatidylinositol monophosphates and diphosphates. Phosphate can be hydrolyzed from the D3 and D5 positions in the inositol ring. Has low tyrosine-protein phosphatase activity; however, the relevance of such activity in vivo is unclear. Plays an important role in adipogenesis of mesenchymal stem cells (MSCs). Regulates the phosphorylation state of AKT1 by suppressing the phosphatidylinositol 3,4,5-trisphosphate (PIP3) level in MSCs and preadipocyte cells (By similarity).[UniProtKB/Swiss-Prot Function]