

Product datasheet for MR227256

Ptprd (NM_001014288) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptprd (NM_001014288) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ptprd
Synonyms: 1110002J03Rik; 3000002J10Rik; B230219D21Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227256 representing NM_001014288
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGTTGACAACTGCAGGATGGTGCCCGTGGCCAGGCCGCTGTCGCTGCTCCTCACCTTCTTCTCT
GCGCCTGTGCTGAGACACCCCCAGGTTTACACGAACTCCGTTGATCAGACAGGGGTCTCTGGAGGAGT
TGCATCATTTCATTGTCAAGCTACAGGAGACCCAAGACCTAAAATTGTCTGGAACAAAAAGGAAAGAAA
GTCAGCAACCAGAGATTTGAGGTAATAGAATTTGACGATGGATCTGGATCAGTACTCAGAATACAGCCCT
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TTGAAGGTGGTGGAAACGGACCCGCCACCCATGCTGTGTGCAGCCAGCGGTAATCCGGATCCAGAAA
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TACAAGTCATCACTCAGACAGGAGTACCAGGGCAGCCACTAAACTTCAAAGCAGAACCTGAATCTGAAAC
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TGGAGTTTTATACATTGAGTATTGTGTTGAAAGAATGAGATATGAAGGGTGGTAGATATCTTCCAG
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GAGCCGCACTAGAATACCTGGGCAGCTTGTACTATGCAACG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227256 representing NM_001014288
 Red=Cloning site Green=Tags(s)

MPLTNCRMVVARPLSLLTFFLCACAETPPFRTRTPVDQTGVSGGVASFICQATGDPRPKIVWNKKGKK
 VSNQRFEVIEFDDGSGSVLRIQPLRTPRDEAIYECVASNNVGEISVSTRLLTVLREDQIPRGFPTIDMGPO
 LKVVVERTRTATMLCAASGNPDPEITWFKDFLPVDTSNNGRIKQLRSESIGGTPIRGALQIEQSEESDQG
 KYECVATNSAGTRY SAPANLYVRELREVRVPPRF SIPPPTNHEIMPGGSVNITC VAVGSPMPYVKWMLGA
 EDLTPEDDMPIGRNVLELNDVRQSANYTCVAMSTLGVIEAIAQITVKALPKPPGTPVVTSTATSITLWTW
 DSGNPEPVSYIIQHKKPNSEEPYKEIDGIATTRY SVAGLSPYSDFR VAVVANNIGRGPASEPVL TQTS
 EQAPSSAPRDVQARMLSSTTILVQWKEPEEPNGQIQGYRVYTMPTQHVNNWMKHNVDASQITIGNLV
 PQKTYSVKVLAF T SIGDGPLSSDIQVITQTGVPGQPLNFKAPESETSILLSWT PPRSDTIASYELVYRD
 GDQGEQRITIEPGTSYRLQGLKPNLSYFRLSARSPQGLGASTAEISARTMQSMFAKNFHVKAVMKT SV
 LLSWEIPENYNSAMPFKILYDDGKMVEEVDGRATQKLI VNLKPEKSYSFVL TNRGNSAGGLQHRVTA
 KTA PDVLRTPAFIGKTNLDGMITVQLPDVPANENIKGYYIIIVPLKKS RGF IKPWESPDEMEDELLEK
 EIS RKRRSIRYGREVELKPYIAAHFDVLPTEFTLGD DKHYGGFTNKQLQSGQEYVFFVLA VMDHAESK
 MYATS PYSDPVVSM DLPQIPITDEEEGLI WVG PVLAVVFIICIVIA ILLYKRKRAESES RKS
 SLPNSKEVPSHH PTDPVELRRLNFQTPGMASHPIPIELEADHIERL KANDNLKFSQ EYESIDP
 GQFTWEHSNLEVNPKN RYANVIA YDHSRVL LSAIEGIPGSDYVNANYIDGYRQ NAYIATQ
 GSLPETFGDFWRMIWEQRSATVVM T KLEERSRVKCDQY WPSRGTE THGLVQVTL
 LDTVELATYCVRTFALYKNGSSEKREVRQFQFTAWPDHGV PEHPTPFLAFLRRVKT
 CNPPDAGPMVHCSAGVGR TGCFIVIDAMLERIKHEKTVDIYGHVTL MRAQRNY
 MVQTEDQYIFIHDALEAVTCGNTEVPARNLYAYIQKL TQIETGENTGMELEFKRLASSKAHT
 SRFISA NLPCNFKNRLVNIMPYESTRVLQPIRGVEGSDYINASF LDGYRQKAYIATQ
 GPLAETTEDFWRLWE HNSTIVMLTKLREMGREKCHQY WPAERSARYQYFVDPMAEY
 NMPQYILREFKVT DARDGQSRTVRQFQ FTDWPEQGVPKSGEGFIDFIGVHKTK
 EQFGDGPISVHCSAGVGR TGVTITLSIVLERMR YEGVVDIFQ TVKMLRTQRPAMVQ
 TEDQYQFCYRAALEYLGSFDHYAT

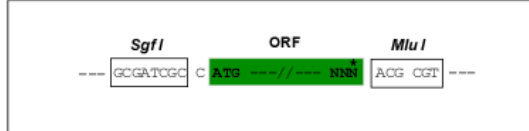
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

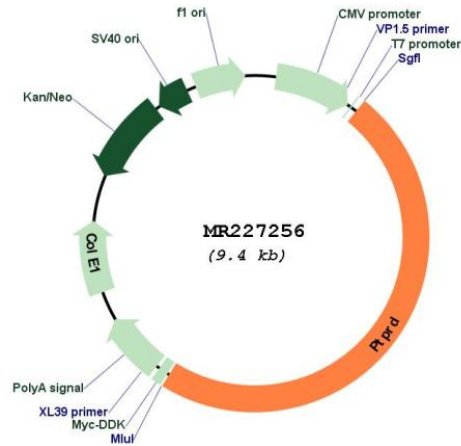
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001014288

ORF Size: 4524 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](#)

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 Size:	7678 bp
RefSeq ORF:	3765 bp
Locus ID:	19266
Cytogenetics:	4 36.94 cM
MW:	281.5 kDa
Gene Summary:	Can bidirectionally induce pre- and post-synaptic differentiation of neurons by mediating interaction with IL1RAP and IL1RAPL1 trans-synaptically (PubMed:25908590). Involved in pre-synaptic differentiation through interaction with SLITRK2 (PubMed:25989451). [UniProtKB/Swiss-Prot Function]