

Product datasheet for MR222151

Ptprg (NM_008981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptprg (NM_008981) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptprg
Synonyms:	5430405N12Rik; AW046354; AW549872; RPTPgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222151 representing NM_008981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGCGGAGGTTACTGGAACCGTGTGGTGGATTTGTTCCCTGAAAATCACCAGTTCTGTGCTTCATTATG
TGGTGTGCTTCCCGCATTGACTGAAGGCTATGTGGGGACCCGCAGGAGAGCAGACAGGACAGCTCAGT
GCAGATCCGCAGACGAAAGGCATCCGGAGACCCATACTGGGCGTATTCTGGTGCCTATGGTCTGAGCAC
TGGGTACATCTAGTGTGAGCTGCGGGGCGAGCCATCAGTCTCCTATAGACATTTAGACCACCATGCTC
GCGTTGGCGATGAATACCAGGAGCTTCACTTGTGGGTTTGACAACGAGTCCTTAACAAAACCTGGAT
GAAAAATACAGGGAAAACAGTTGCCATCCTGCTGAAAGACGATTATTTGTGAGTGGTCCCGGACTGCCG
GGCAGATTCAAAGCTGAGAAGGTGGAGTTTCACTGGGGCCACAGCAATGGCTCCGCTGGCTCAGAGCATA
GTGTCAATGGCCGGAGGTTTCTGTGGAGATGCAGATTTTCTTTACAACCCAGACGACTTTGACAGCTT
TCAAACGGCAATTTCTGAGAACAGAATAATTGGAGCTATGGCCATATTTTCCAAGTCAGTCCGAGGGAC
AATTCTGCACTGGATCCTATTATCCACGGGCTGAAGGGCGTCGTACATCACGAGAAGGAGACTTTCTGG
ATCCTTTCATTCTCCGAGACCTCCTGCCGCATCCCTGGGGAGTTATTACAGGTACACAGGCTCCTTGAC
TACGCCACCCTGTAGTGAATAGTGGAGTGGATTGTCTCCGGAGGCCGTTCCCATCTCCTATCACCAG
CTTGAGCTTTTTATTCTATCTTACCACGGAGCAGCAAGACCATGTCAAGTCAGTGGATACCTGAGAA
ATAACTCCGACCACAACAAGCTCTGAATGACAGAGTGGTGTCAAAGTCTGCTGTCCGGGATGCCTGGAA
CCATGACCTGGCAGACTTCTTGACAACCCACTAGGCACAGAAGCCTCTAAAGTTTGAGCTCTCCGCC
ATCCACATGAAGGTGCAGCCTCTGAACCAGACAGCTCTGCAGGTGTCTGGAGCCAACTGAAACCATCT
ACCACCCGCCATCATGAATTACATGATCTCCTATAGCTGGACCAAGAATGAGGACGAGAAGGAGAAGAC
ATTTACAAAAGACAGTGACAAGGACTTGAAAGCCACCATCAGCCATGTCTACCCGATAGCCTTTACCTA
TTCCGAGTACAGGCTGTGTAGGAATGACATGCGGAGTGACTTCAGCCAGACAATGCTCTTTCAAGCTA
ATACTACCCGGATCTTCAAGGGACCAGGATTGTGAAAACAGGAGTGCCGACAGCCTCTCCTGCCTCTTC
AGCAGACATGGCCCCATCAGCTCTGGCTTCTCCACTTGGACATCCTCCGGCATCCCTTCTCATTGT



[View online »](#)

TCCATGGCAACTGGGATGGGCCCTTCTCCAGTGGCAGCCAAGCTACAGTGGCCTCTGTGGTCACCAGCA
 CACTGTTGGCAGGCTGGGCTTCGGTGGTGGTGGCATCTCCTCCTTCCCCAGTACCGTGTGGCCACGCG
 CCTTCCCACCGCATCTGCAGCCAGCAAGCAGGCAGGGAGGACAGTTCTTGCCACCACCGAGGCCTTAGCT
 TCCCCTGGGCCGGATGTCGACTCGGCACCAGCAAGGACAGCGAGGGTACAGAGGAGGGAGAGAAGGAGG
 AGAAAAGCGAGAGCGAGGATGGTGAAGGAGAGCATGAGGAGGAAGAGAAGGACTCTGAGAAGAAGGAGAA
 GAGTGAGGCTACTCACACAGCCGAGAGAGTACCAGGACTGCACCTGCCCCACCCCTCTTCCCCTCAT
 AGGACTGCAGCGGAGGGAGGACATCAGACTATACCTGGGCGCAGGCAGGACCCTGCCCCCTGCCACAG
 ACCAGCCGGGCCACGTTGCCCCAGACTTGGATCCCTTGTGGACACAGCCACCCAAGTGCCCCAACAGC
 CACAGAGGAACATTATTAGGGAGTGATCCCAGGAGGCCGAAATGCCATCTAAAAAGCCTATGTCCCGA
 GGGGACCGATTTTCTGAGGATAGCAAAATCATCACAGTTAACCCAGCTGAGAAGAACACCTCTGGCATGC
 TAAGCCGCCCTCCCCGGGAGGATGGAGTGGATCATCCCCTGATTGTGGTCTCAGCCTTGACCTTCGT
 GTGCCCTCGTCTCCTCATTGCCGTGCTGGTGTACTGGAGAGGGTGAACAAAATAAAGTCCAAGGGCTTT
 CCCCAGCTTCCCGTGAAGTGCCTTCTTCTGGGAGAGAGGAGAGAAGGGGAGCAGAAAAATGTTTTAGA
 CTGCTCATTCTATGTGAAGACAGCAGTTCACCTCGGGTGGTCCCAACGAAAGTTCCTATTATTCC
 CATCCCGATGACATGGAAGCCATTCTGTCAAACAGTTTGGTAAACACATCGGTGAGCTCTATTCCAAT
 AGCCAGCATGGCTTCTCGGAAGATTTTGGGAAGTCCAGCGCTGTACAGCTGATATGAACATCACATGCAG
 AGCATTCCAATCATCCGGATAACAAGCAGAAAAACAGATACATCAACATTTTAGCATATGATCACAGTAG
 GGTGAAGTAAAGACCTTACCAGGAAAGGACTCTAAGCACAGCGACTACATTAATGCAAACATATGTCGAT
 GGTTAACAACAAAGCGAAAGCCTACATTGCCACCAGGGACCTTTAAAAATCCACCTTTGAAGACTTCTGGA
 GGATGATCTGGGAACAAAACACGGGAATCATCATGATGATCACGAACCTCGTGGAGAAAGGAAGGAGAAA
 GTGTGATCAGTATTGGCCAACGGAGAACACTGAGGAGTACGGGAACATTTGTACACTGAAGAGCACA
 AAAGTACATGCCTGCTACACCGTCCGTCGTCTTTCAGTTAGAAACACAAAAGTAAAAAGGGCCAGAAGG
 GCAACCCAAAGGTCGTGAGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
 TGTCCCTGAGTACGCCCTCCAGTCTGACCTTGTGGAGAGGTACTGCGGCCCGCATGCCAGACATG
 GGGCCCGTGTGGTGCATGACGCGCTGGTGTGGCAGGACAGGCACCTACATTGTAATAGACAGCATGC
 TGCAGCAGATCAAAGACAAAAGCACAGTTAATGTCCTGGGCTTCTGAAGCATATCAGGACACAGAGGAA
 CTACCTCGTCCAGACTGAGGAGCAGTACATTTTCCATGATGCCTTGTGGAAGCCATTCTCGGGAAG
 GAAACTGAAGTATCTTCAAGTCACTGATGCTATGTTAACAGCATCCTCATACCAGGAGTAGGAGGAA
 AGACACGGCTGAAAAAGCAGTTTAAAGTATCACGAGTGAATGCAAAGTATGTGGAGTCTTCAAGTGC
 CCAGAAGGAGTGAACAAAGAGAAGAACAGGAACCTGCTGTTGTGCCAGCTGAGCGTCTCGAGTGGGA
 CTTGCACCGTTGCCCGGATGAAAGGAACAGATTACATTAATGCTTCTTACATCATGGGGTATTATAGAA
 GCAACGAGTTCATCATAACCCAGCATCCTCTGCCACACTACGAAAGATTTCTGGAGAATGATTTGGGA
 TCATAATGCACAGATCATTGTATGCTGCCAGACAACCAGAGCCTGGCAGAAGATGAGTTTGTGACTGG
 CCGAGTCTGAGGAATCCATGAAGTGTGAGGCCTTACTGTACCCCTCATCAGCAAAGACAGGCTATGCC
 TCTCGAATGAAGAACAAATATCATCCATGACTTCATCCTTGAAGCTACACAGGATGACTACGACTAGA
 GGTTCCGCACTTTCAGTGTCCCAATGGCTAACCCAGATGCCCTATAAGTATGACTTCAAGTACTGATC
 AATGTCATCAAGGAAGAGGCCTAACCCGGGATGGCCCCACCATTGTTTATGATGAGTATGGAGCAGTTT
 CTGCAGGAATGTTGTGTGCCCTTACCACCTTGTCCAGCAGCTAGAGAATGAAAAATGCTGTGGATGTGT
 CCAGTGGCAAAAATGATCAATCTTATGAGACCTGGAGTATTACAGACATTGAACAATACCAGTTTGTG
 TACAAAGCAATGCTCAGCTTGTATGACTAAAGAAAATGGAAAATGGTCCCATGACCGGGGACAAAAACG
 GTGCTGTGCTAACTGCAGAGGAATCAGACCCTGCAGAGCATGGAGTCTCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222151 representing NM_008981
 Red=Cloning site Green=Tags(s)

MRRLLPCWWILFLKITSSVLHYVVCFPALTEGYVGLQESRQDSSVQIRRRKASGDPYWAYSGAYGPEH
 WVTSSVSCGGSHQSPIDILDHHRVGDYQELQLDGFDNESNKTMKNTGKTVAILLKDDYFVSGAGLP
 GRFKAKEVEFWGHSNGSAGSEHSVNGRRFPVEMQIFFYNPDDDFSFQTAISENRIIGAMAIFQVSPRD
 NSALDPIIHGLKGVVHHEKETFLDPFILRDLLPASLGSYYRYTGLSTTPPCSEIVEWIVFRRPVPISYHQ
 LEAFYSIFTEQQDHVKSVEYL RNNFRPQQALNDRVVS KSAVRDAWNHDLADFLDNPLGTEASKVCSPP
 IHMKVQPLNQTALQVSWSQPETIYHPPIMNYMISYSWTKNEDEKEKFTTKDSDKDKATISHVSPDSL
 YLFRVQAVCRNDRMRSDFSQTMLFQANTTRIFQGRTRIVKTGVPTASPASSADMAPISSGSSTWTSSGIPFSV
 SMATGMGPSSSGSQTAVASVVTSTLLAGLFGGGGISSFPSTVWPTRLPTASAASKQAGRTVLATTEALA
 SPGPDVDSAPT KDSEGT EEEKEEKESESEGEREHEEEEEKSEKKEKSEATHTAAESDRTAPAPTSSPH
 RTAAEGGHQTI PGRRQDHSAPATDQPGHVAPDL DPLVDTATQVPPTATEEHYSGSDPRRPEMPSKKPMSR
 GDRFSEDSKFI TVNPAEKNTSGMLSRPSPGRMEWI IPLIVVSALTFVCLVLLIAVLVYWRGNKIKSKGF
 PRRSREVPSSGERGEKGRKCFQTAHFYVEDSSSPRVV PNEVPIIPIDMEAI PVKQFGKHIGELYSN
 SQHGFSEDFEEVQRCTADMNITAEHSNHPDNKHK NRYINILAYDHSRVKLRPLPGKDSKHSYINANYVD
 GYNKAKAYIATQGPLKSTFFEDFWRMIWEQNTGIIIMITNLVEKGRRKCDQYWPTEENTEEYGNIIIVTLKST
 KVHACYTVRRLSVRNTKVKKGQGNPKGRQNER TVIQYHYTQWPDGMVPEYALPVLTFVRRSSAARMPDM
 GPVLVHCSAGVGRGTGYIVIDSM LQQIKDKSTVNVL GFLKHIRTQRNYLVQTEEQYIFIH DALLEAILGK
 ETEVSSSQLHSYVNSILIPGVGGKTRLEKQFKLITQCNAYVECFSAQKECNKEKNRNSV VPAERARVG
 LAPLPGMKGTDYINASYIMGYRSNEFIIITQHPLPHTTKDFWRMIWDHNAQIIVMLPDNQSLAEDEFVYV
 PSREESMNCEAFVTLISKDR LCLSNEEQII IHDFILEATQDDYVLEVRHFQCPKWPNPDAPISSTFELI
 NVIKKEALTRDGPTIVHDEYGA VSAGMLCALTTLSQQL ENENAVDVFQVAKMINLMRPGVFTDIEQYQFV
 YKAMLSL ISTKENGNGPMTGDKNGAVLTAEESDPAESMESLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9041_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

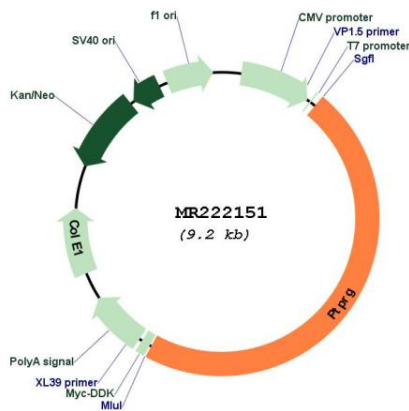


ACCN: NM_008981

ORF Size: 4326 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:**
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_008981.3](#), [NP_033007.2](#)
- RefSeq Size:** 9190 bp
- RefSeq ORF:** 4329 bp
- Locus ID:** 19270
- UniProt ID:** [Q05909](#)
- Cytogenetics:** 14 6.33 cM
- MW:** 161.7 kDa
- Gene Summary:** Possesses tyrosine phosphatase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222151