

Product datasheet for MR225290

Prph2 (NM_008938) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prph2 (NM_008938) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prph2
Synonyms:	AOFMD; AVMD; Nmf193; PRPH; Rd-2; Rd2; Rds; rds; RP7; Tspan22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225290 representing NM_008938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTGCTCAAAGTCAAGTTTGACCAGAAGAAGCGGGTCAAGTTGGCCAGGGGCTCTGGCTTATGA
ACTGGCTGTCCGTGTTGGCCGGCATCGTCTCTCAGCTTGGGGCTGTTCTTGAAGATTGAACCTCGCAA
GAGGAGCGAAGTGATGAATAATTCTGAGAGCCACTTTGTGCCAACTCCCTGATAGGGGTGGGGTCCCTG
TCCTGTGCTTCAACTCTCTGGCTGGGAAGATCTGCTATGATGCCCTGGACCCGGCCAAGTACGCCAAGT
GGAAGCCCTGGCTGAAGCCGTACCTGGCTGTCTGCATCTCTTTAACGTCATCCTCTTCTGGTGGCTCT
CTGCTGCTTTCTGTTGCGGGGCTCCCTGGAGAGCACCTGGCTTACGGACTCAAGAATGGGATGAAGTAT
TATCGGGATACGGACACCCCGGCCGGTCTTCATGAAAAGACCATCGACATGCTCCAGATTGAGTTCA
AGTGCTGTGGGAACAACGGCTTCCGGGACTGGTTCGAGATTCAAGTGGATCAGCAATCGCTACCTGGACTT
CTCCTCCAAGGAGGTCAAAGATCGCATCAAGAGCAACGTGGATGGGCGGTACCTGGTGGACGGCGTCCCT
TTCAGTGTCTGCAACCCAGCTCCCGCGGCCCTGTATCCAGTACCAGCTCACCAACACTCGGCGCACT
ACAGCTATGACCATCAGACTGAGGAGCTCAACCTCTGGCTGCGGGGCTGCAGGGCCGCTCTGCTGAATTA
CTACAGCAGCCTCATGAATTCATGGGCGTCGTCACACTTCTCGTCTGGCTCTTTGAGGTGAGCATCACT
GCCGGACTCCGCTACCTCCACACAGCGCTGGAGAGTGTGTCTAACCCGGAGGACCCGAGTGTGAGAGTG
AGGGCTGGCTGCTGGAGAAGAGCGTGCCCGAGACCTGGAAGGCCTTTCTGGAGAGCTTTAAGAAGCTGGG
CAAGAGCAATCAGGTGGAGGCTGAAGGTGCAGACGCAGGCCCGGCTCCAGAGGCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225290 representing NM_008938
 Red=Cloning site Green=Tags(s)

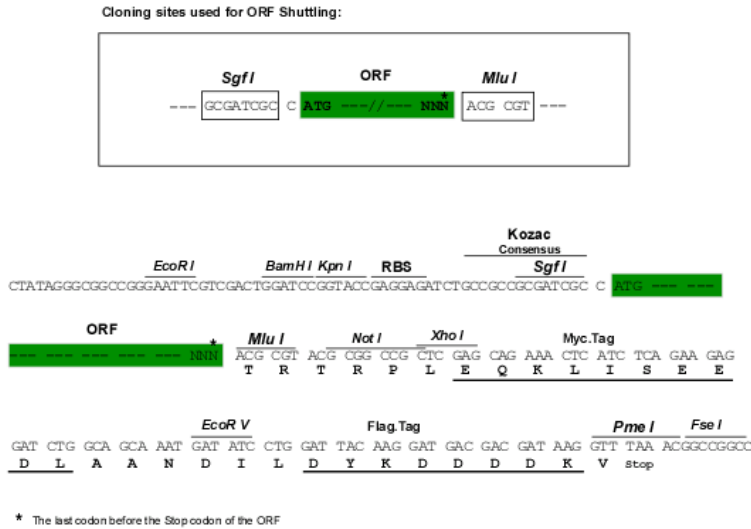
MALLKVKFDQKKRVKLAQGLWLMNWL SVLAGIVL FSLGLFLKIELRKRSEVMNSESHPNSLIGVGL
 SCVFNSLAGKICYDALDPAKYAKWKPWLKPYLAVCIFFNVILFLVALCCFLLRGSLESTLAYGLKNGMKY
 YRDTDTPGRCFMKKTIDMLQIEFKCCGNGFRDWFEIQWISNRYLDFSSKEVKDRIKSNVDGRYLVDGVP
 FSCCNPSSPRPCIQYQLTNNSAHYSYDHQTEELNLWLRGCRAALLNYYSSLMNSMGVVTLVWLFVFSIT
 AGLRYLHTALESVSNPEDPECESEGWLLLEKSVPETWKAFLSFKKLGKSNQVEAEGADAGPAPEAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9020_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008938

ORF Size: 1038 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:

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_008938.2](#)

RefSeq Size: 2632 bp

RefSeq ORF: 1041 bp

Locus ID: 19133

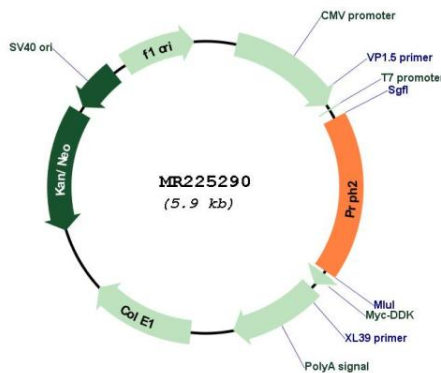
UniProt ID: [P15499](#)

Cytogenetics: 17 22.91 cM

MW: 39.7 kDa

Gene Summary: May function as an adhesion molecule involved in stabilization and compaction of outer segment disks or in the maintenance of the curvature of the rim. It is essential for disk morphogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225290