

Product datasheet for **MG221747**

Mfrp (NM_147126) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfrp (NM_147126) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mfrp
Synonyms:	rd6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221747 representing NM_147126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGGACTATGACGACGTCATCCTCCGTCCAGAGGCGAGTGAGTTGAGCAAGACAGAGTTCTGTAAATC
 CTGCTTTTCGACCCGGAAGCAGGGCCATCCTGCCCTCCACCAGCGTTACAGAGGGATGTCGGCAGCCGGCT
 CCAAGCCCCCTGGCATGCCAGCGTCTCCGGGGCTACAGCCGACTGCCACTTCTCCTGGTTCTGTATT
 CTGCTTCTCAGTGGCCTGCTGCTCCTGCTGCTGGGGCTACTGGTGGCTGTCATCCTGGCTCAGTTCAGG
 CTACATCCCTCCCAGGACTACCAAGAACCCTGCTCACCCGAGGCTCACCCCATGGGTGTCATTCC
 CAGCACCACCCCTAACACCACCACCACCACCACCCTACCACCCAGCAAGGACAGGGCAGCAGGAGGCA
 GCCATGAGCCCTACACACCAGACCCTGTGGAGGCTCCTTCTGGTCCCAGTGGTTTCTTCAGCAGCC
 CTAACACCCAGACCTTACCACCCCTCAGCCACTGTGTCTGGCATATCCAGGTAGCCGCGGGCCAGAC
 AATACAGCTCAAGATTCAAGCCCTCAGCATAGAGAGTATGCTCACCTGTCTTTTGTATCGCTTGGAAATT
 ATCTCAGAGCCTACAGGCCCTCCTCAGGGTGTGTGGTAAAACACCTCCTGCCACATTAACACCAATA
 CCAGCCACCTCCGTGTGTCTTCTGCTCTGATAACGATGTGGAAGGGTCTGGTTTCCAGGCTGGTACCA
 AGCAGTGGCCCTGGACATTGGAGCTGTGCCATAATGAGTTCCTGTGACCTTCTCCTGCTGCCTGAAG
 CGTGACTCTGTATGTGACGGTATTACCGAGTGTCCGATGGCAGTGACGAGGCCAACTGCAGTGCCAAGA
 CGTTGGGGTGTGGAGGGAACCTGACTGGGCTCTATGGCGTATTCTTACCCCAAATATCCACAGCACTA
 CCCTCACCAACAGCTTTGCACCTGGTACATCGAAGTGCCTGTGGGATACGGGATAAGACTGGAGTCCAC
 AACTTCAGTCTGGAAGCACAGGCTGAGTGAAGTTTACTACGTGGAAGTGTACGAGGCCAGCAACCTGG
 GAACCTTCAGCTTCTGGCAGGTTCTGTGGAGCAGAGCCACCCTCAACGTTGTCTCCTCGATGCACCA
 GCTGGCTGTAATCTTCAAGACGGATCTTGGTATCAGCAGCGGGGCTTTCTAGCCACCTACCAGGCCATC
 AATACTACAGAGAGTGGGTGTCCCTGGGCAGGTTCTGCCAGAGCGGAGGATATAGGGATCTGCAATGGA
 TGTGTGACTTATGGAAAGACTGTGCAAATGACAGCAACGACAACCTGCAGCAGCCACTTGTCCCAACAAC
 AGACCTGACCTGTGAACCTGTCCAGGTGGAGATGTGCCTTGGACTAAGCTACAATACCACGGCCTTCTCT
 AACATCTGGTGGGCTGGCCACGCAGACAGAGGTGACAGACATCCTCCGAGGCTACAAGAGTCTGACAA
 GTCTACCCTGCTACCAGACTTCCAGAGGTTCTCTGTGGACTGCTTGTGCCTCGATGCACCTCACTGGG
 CACTATCCTACCCCTTGTGTTCCGTCTGCCAGGCGGGGAGCAGCAGTGCCAGTCTAGCTGGCATT
 TTGGGCACCCCTGGCCTTCAACTGCAACAGGCTGCCCGTGGCAGCTAGCTGGAAGCTTGTCTCCAGC
 CC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221747 representing NM_147126
 Red=Cloning site Green=Tags(s)

MKDYDDVILRPEASELSKTEFCNPAFDPEAGPSCPPPALQRDVGSRQLQAPWHAQRLRGLQPDCHFSWFCI
 LLLSGLLLLLLGLLVAVILAQLQATSLPRTTKNPLLTRGLTPMGVIPSTTPNTTTTTTTTTTPARTGQQA
 AMSPTHQTTCCGLLPGPSGFFSSPNYPDLYPPLSHCVWHIQAAGQTIQLKIQALSIEMLTCLFDRLEI
 ISEPTGPLLRVCGKTPPATLNTNTSHLRVSVSDNDVEGSGFQAWYQAVAPGHWSAHNEFHCDLLCLK
 RDSVCDGITCADGSDEANCSAKTLGCGNLTGLYGVFSTPNYPQHYPHQQLCTWYIEVPVGYGIRLEFH
 NFSLEAQAECKFDYVEVYEASNLGTFSLGRFCGAEPPLNVVSSMHQLAVIFKTDLGISSGGFLATYQAI
 NNTESGCPWAEFCQSGGYRDLQWMCWLKDCANDSNDNCSHLSPPQDLTCEPVQVEMCLGLSYNTTAFP
 NIWVGLATQTEVDILRGYKSLTSLPCYQTFQRFLLCGLLVPRCTSLGTILPPCRSVCQAAEQCCSSLAL
 LGTPWPFNCNRLPVAASLEACSQP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_147126

ORF Size: 1752 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_147126.3](#), [NP_667337.1](#)

RefSeq Size: 4292 bp

RefSeq ORF: 1755 bp

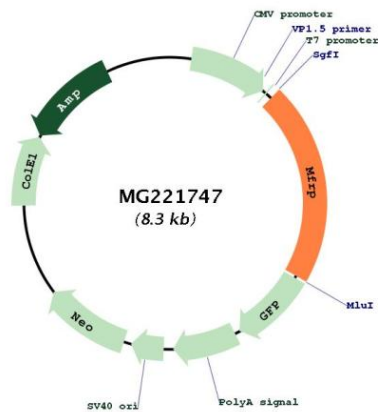
Locus ID: 259172

UniProt ID: [Q8K480](#)

Cytogenetics: 9 24.6 cM

Gene Summary:

The protein encoded by this gene contains a region with similarity to the cysteine-rich domain (CRD) of frizzled, a gene originally found in *Drosophila* that controls tissue polarity. This protein functions in eye development, where it is necessary for the maintenance of photoreceptor outer segments. Mutations in this gene cause retinal degeneration 6 in mice, which gives rise to a mouse model for human retinitis punctata albescens. Bicistronic transcripts composed of the coding sequences for this gene (Mfrp) and the C1q and tumor necrosis factor related protein 5 gene (C1qtnf5) have been identified, and the resulting products can interact with each other. Co-transcription of C1qtnf5 and Mfrp has been observed in both human and mouse. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]

Product images:


Circular map for MG221747