

Product datasheet for **MR222540**

Rpgr (NM_001177952) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Rpgr (NM_001177952) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rpgr |
| Synonyms: | Rd9; Rp3h |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR222540 representing NM_001177952
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCGGCAGTAACTGGGGTCACTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAACATGTA
TCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGCCTGTGGAAGGAACACACCTTAGTTTCAACAGA
TACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACACTGACGATAGA
GACACCTTTCATCAAATTGTCTTCTTTACACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGCCAATA
CATCCGCTGCTCTTACTGAGGATGGAAAATTTTTATGTGGGGTGACAATTCTGAAGGCAGATTGGTCT
AGAAGATAAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTTCTGGATCTCTTGT
GGATATTACCATTAGCTTTTGAACAATGGATGGGGAGCTCTACACATTTGGAGAACCCGAGAATGGGA
AGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGGCATTCTGAGAG
GGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAGTTGTGTATGCCTTTGGG
CTGGGGCAGTTTGACAACCTGGGCCTTGGCACTTTTCTTTTGAACATCAGAACCCAAAATTATTGAGC
GTATTAAGGATCAGAAAATATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAAGTAGG
CCTCCTGTATACTTTGGAGACGGCCGACATGGAAAGTTAGGACTTGGGATGGAGAATTTACCAATCAG
TTCTTTCTACCTTGTGCTCTAACTTTTTGAGATTTGCAGTTCAATTGATTGCCTGTGGTGGATGTCATA
TGCTAGTTTTTGGCACTCCACGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAGCCTTA
TATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTATCAGCA
CGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGGAACACTGCCTCCATTAG
AGGGGACTTCTGCCTCCACTTCAGCTTATTTTTACCCAGTTACCCCTTCCATTTGTCTGTGAATAA
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AAGAGCAGCTCTCAGAAATTCGGGAGGTAATGATCCAACAAGTAAAGACATAAAAAAGCTAAAAAAA
TTTCCTTCTTAAATCGGATGTCATTGACAGGTCAGAAACTGATGCAGAATACTAATGATCCACTCCAGAG
GATAAAGCCAATAGGAGATCAGATAGCCTTACAAAGTGATAAGAAAGATGCCAACCAAGACACATGGGT
CAAAATCTTCAGGATTCGACAACACCAATATGGAGGGAAAGTCCAAATCCTGTACAATTCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222540 representing NM_001177952
 Red=Cloning site Green=Tags(s)

MFGSNNWGQLGLGSKAAIIKPTCIKALKPEKVLAACGRNHTLVSTDTGGVYAAGGNNEGQLGLGDTDDR
 DTFHQIVFFTPADTIKQLSAGANTSAL TEDGKLFMWGDNSEGQIGLEDKSNVCIPHEVTVGKPISWISC
 GYYHSFAFVTMDGELYTFGEPENGLGLPNELLMNHRSPQRVLGIPERVIQVACGGGHTVVLTEKVVYAFG
 LGQFGQLGLGTFLFETSEPKIIERIKDQKICHISCGENHTALMTELGLLYTFGDGRHGKLGGMENFTNQ
 FFPTLCSNFLRFVQLIACGGCHMLVFATPRLGTIDEPKFEDVYEPYISTGSFSINDLSRSSLNRSLSA
 RLRRRERERPPCSASMGTLPPLEGTSASTSAYFYPSSPPFHLVNNYPEKSPSEMEPLDSDYFEDKMN
 KDTETENSSAVDSENFGETNDILNMTHMMTSSNEKLLDFSPIQKQAPQLSETVKPEEGEMDEEISILN
 VEDTVEEERKEGEKEIVEEGSIPETEGSETIDITDEKLDEVLKEEDSASLLQRALREYNENPKGHMYDRV
 KSSSEILGGNDPTSKDIKKAKKISFFNRMSLTGQKLMQNTNDPLPEIKPIGDQIALQSDKKDANQNHMG
 QNLQDSTTPNMEGKSKSCTIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

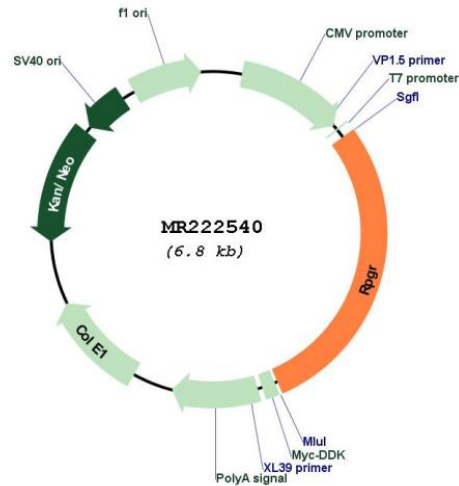
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177952

ORF Size: 1953 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_001177952.1](#), [NP_001171423.1](#)

RefSeq Size: 2795 bp

RefSeq ORF: 1956 bp

Locus ID: 19893

Cytogenetics: X A1.1

MW: 72.1 kDa

Gene Summary: Could be a guanine-nucleotide releasing factor (By similarity). Plays a role in ciliogenesis (By similarity). Probably regulates cilia formation by regulating actin stress filaments and cell contractility (By similarity). May be involved in microtubule organization and regulation of transport in primary cilia (By similarity). Plays an important role in photoreceptor integrity. Isoform 5 may play a critical role in spermatogenesis and in intraflagellar transport processes. [UniProtKB/Swiss-Prot Function]