

## Product datasheet for **MR222535**

### **Rpgr (NM\_011285) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_011285) 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)



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ORF Nucleotide  
Sequence:

>MR222535 representing NM\_011285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAAGAGGGTCGCGATGGGGTCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG  
 CTATCTTTCCGAAGCAGGCACAGATTCCGTTTCGCAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC  
 CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCTAGCAAATCTGGTTT  
 AAAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAAT  
 TGTACATGTTTCGGCAGTAACAACGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC  
 ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGTGCCTGTGGAAGGAACACACCTTAGTTTCA  
 ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACACTGACG  
 ATAGAGACACCTTTCATCAAATGTCTTTCACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGC  
 CAATACATCCGCTGCTCTTACTGAGGATGGAAAACTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT  
 GGTCTAGAAGATAAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTTCTGGATCT  
 CTTGTGGATATTACCATTGAGCTTTTGTAAACAATGGATGGGGAGCTCTACACATTTGGAGAACCAGGAA  
 TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGGCATTCTT  
 GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAAGTTGTGTATGCC  
 TTGGGCTGGGGCAGTTTGGACAACGGGCTTGGCACTTTTCTTTTGAACATCAGAACCACAAAATTTAT  
 TGAGCGTATTAAGGATCAGAAAAATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA  
 CTAGGCCTCCTGTATACTTTTGGAGACGGCCGACATGAAAAGTTAGGACTTGGGATGGAGAATTTACCA  
 ATCATCTTTTCTTACCTTGTCTTAACTTTTGGAGATTTGAGATTTGAGTTCAATTGATTGCTGTGGTGGAT  
 TCATATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG  
 CCTTATATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTAT  
 CAGCACGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGGAACACTGCCTCC  
 ATTAGAGGGGACTTCTGCCTCCACTTCAGCTTATTTTTACCCAGTTACCCCCCTTCCATTTGTCTGTG  
 AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAGATAAAA  
 TGAACAAAGACACAGAGACAGAAAATTTCTCAGCAGTGGATTGAGAAAACTTTGGTGAACCTAATGATAT  
 CTTAAATATGACACATATGATGACTACGAGTTCCAATGAGAAGTTATTAGATTTTTACCAATTCAAAA  
 CAACAGGCTCCTCAACTTTCAGAACTGTGAAACCAGAAGAAGGGGAAATGGATGAGGAAATTAGTATCC  
 TGAATGTAGAAGACACTGTAGAAGAAGAAAGGAAGGAAGGAGAGAAGGAGATTGTAGAAGAAGGAAGTAT  
 ACCTGAAACAGAAGGCTCAGAACTATTGATATTACTGATGAGAAGCTAGATGAAGTCTTAAAGAGGAA  
 GACAGTCCAGCCTTCTGCAACGGGCCCTTCGTGAGTACAATGAAAATCCAAAAGGACACATGTATGATC  
 GTGTAAGAGCAGCTCTTCAGAAATTCGGGAGGTAATGATCCAACAAGTAAAGACATAAAAAAGCTAA  
 AAAAAATTCCTTCTTAAATCGGATGTCATTGACAGGTCAGAACTGATGCAGAATACTAATGATCCACTC  
 CCAGAGATAAAGCCAATAGGAGATCAGATAGCCTTACAAAGTGATAAGAAAGATGCCAACCAAGACCACA  
 TGGGTCAAATCTTCAGGATTCGACAACACCAAATATGGAGGGAAAGTCCAAATCCTGTACAATTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222535 representing NM\_011285  
 Red=Cloning site Green=Tags(s)

MPRGRSWSQGVGQHLRLNRVAPAIFFPKQAQIPFAGFGMAEESLVPDTGAVFTFGKTKFAENIPSKFWF  
 KNDIPICLSCGDEHTAIVTGNKLYMFGSNNWQQLGLGSKAAIIKPTCIKALKPEKVKLAACGRNHTLVS  
 TDTGGVYAAGGNNEGQLGLGDTDDRDTHQIVFFTPADTIKQLSAGANTSAALETEDGKLFMWGDNSEGQI  
 GLEDKSNVCIPHEVTVGKPISWISCGYHSAFVTMDGELYTFGEPEGKLGLPNELLMNHRSPQVRLGIP  
 ERVIQVACGGGHTVVLTEKVVYAFGLGQFGQLGLGTFLFETSEPKIIERIKDQKICHISCGENHTALMTE  
 LGLLYTFGDRHGKLGGMENFTNQFFPTLCSNFLRFVAVQLIACGGCHMLVFATPRLGTIDEPKFEDVYE  
 PYISTGSFSINDLSPRSSLNRSLSARLRRRERPPCSASMVGLPPLEGTSASTSAYFYPPSPPFHLSV  
 NNYPEKSPSEMEPLDSDYFEDKMNKDTETENSSAVDSENFGETNDILNMTHMMTTSSNEKLLDFSPIQK  
 QQAPQLSETVKPEEGEMDEEISILNVEDTVEERKEGEKEIVEEGSIPETEGSETIDITDEKLEVLKEE  
 DSASLLQRALREYNENPKGHMYDRVKSSSSEILGGNDPTSKDIKKAKKISFFNRMSLTGQKLMQNTNDPL  
 PEIKPIGDQIALQSDKKDANQNHMGQNLQDSTTPNMEGKSKSCTIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011285

**ORF Size:** 2238 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\\_011285.2](#), [NP\\_035415.1](#)

**RefSeq Size:** 2801 bp

**RefSeq ORF:** 2241 bp

**Locus ID:** 19893

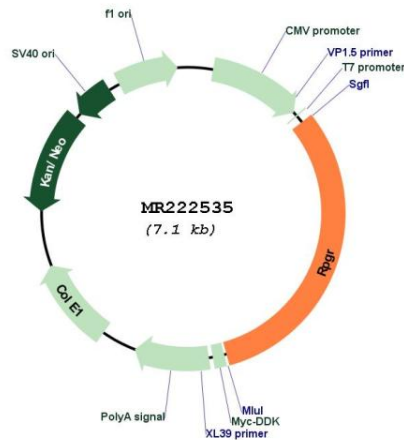
**UniProt ID:** [Q9R0X5](#)

**Cytogenetics:** X A1.1

**MW:** 82.5 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]

### Product images:



Circular map for MR222535