

## Product datasheet for **MC220070**

### **Rpgr (NM\_001177952) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC220070 representing NM\_001177952  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTTTCGGCAGTAACTGGGGTCACTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAACATGTA  
 TCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGCCTGTGGAAGGAACACACCTTAGTTTCAACAGA  
 TACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTACACTGACGATAGA  
 GACACCTTTCATCAAATTGTCTTCTTTACACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGCAATA  
 CATCCGCTGCTCTACTGAGGATGGAAAATTTTTATGTGGGGTGAACAATTCTGAAGGCGAGATTGGTCT  
 AGAAGATAAAAAGTAATGTATGTATCCCTCATGAAGTACTGTTGGAAAGCCAATTTCTGGATCTCTTGT  
 GGATATTACCATTAGCTTTTGAACAATGGATGGGGAGCTCTACACATTTGGAGAACCCGAGAATGGGA  
 AGTTGGGCTTCCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGGCATTCTGAGAG  
 GGTCAATCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAGTTGTGTATGCCTTTGGG  
 CTGGGGCAGTTTGACAACCTGGGCTTGGCACTTTTCTCTTTGAAACATCAGAACCCAAAATTATTGAGC  
 GTATTAAGGATCAGAAAATATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAAGTAGG  
 CCTCTGTATACTTTGGAGACGGCCGACATGGAAAGTTAGGACTTGGGATGGAGAATTTACCAATCAG  
 TTCTTTCTACCTTGTGCTCTAACTTTTGGAGTTTGCAGTTCAATTGATTGCCTGTGGTGGATGTCATA  
 TGCTAGTTTTTGGCACTCCACGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAGCCTTA  
 TATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTATCAGCA  
 CGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGGAACACTGCCTCCATTAG  
 AGGGGACTTCTGCCTCCACTTCAGCTTATTTTTACCCAGTTACCCCTTCCATTTGTCTGTGAATAA  
 CTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTTGAAGATAAAATGAAC  
 AAAGACACAGAGACAGAAAATTTCTCAGCAGTGGATTCAGAAAATTTGGTGAACATAATGATATCTTAA  
 ATATGACACATATGATGACTACGAGTTCCAATGAGAAGTTATTAGATTTTTACCAATTCAAAAACAACA  
 GGCTCCTCAACTTTCAGAACTGTGAAACCAGAAGAAGGGGAAATGGATGAGGAAATTAGTATCCTGAAT  
 GTAGAAGACACTGTAGAAGAAGAAGGAAGGAAGGAGAGAAGGAGATTGTAGAAGAAGGAAGTATACCTG  
 AAACAGAAGGCTCAGAACTATTGATATTACTGATGAGAAGCTAGATGAAGTCTTAAAGAGGAAGACAG  
 TGCCAGCCTTCTGCAACGGGCCCTTCGTGAGTACAATGAAAATCCAAAAGGACACATGTATGATCGTGTA  
 AAGAGCAGCTCTCAGAAATTCTGGGAGGTAATGATCCAACAAGTAAAGACATAAAAAAGCTAAAAAAA  
 TTTCTTCTTTAATCGGATGTCATTGACAGGTCAGAAACTGATGCAGAATACTAATGATCCACTCCAGAG  
 GATAAAGCCAATAGGAGATCAGATAGCCTTACAAAGTGATAAGAAAGATGCCAACCAAGACACATGGGT  
 CAAAATCTTCAGGATTCGACAACACAAAATATGGAGGGAAAGTCCAAATCCTGTACAATTCTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001177952
- Insert Size:** 1956 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]

Transcript Variant: This variant (4) differs in the 5' UTR and initiates translation at a downstream start codon, and lacks an alternate in-frame exon in the 3' coding region compared to variant 1. The resulting protein (isoform 4) is shorter and has a distinct N-terminus compared to isoform 1.