

Product datasheet for **MC223321**

Rpgr (NM_001177950) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_001177950) 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
Fully Sequenced ORF:	>MC223321 representing NM_001177950 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCAAGAGGGTCGCGATGGGGTCCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG
CTATCTTCCGAAGCAGGCACAGATTCCGTTTCGAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
CGATACAGGTGCTGTGTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCCTAGCAAATCTGGTTT
AAAAATGACATACCCATATGCTTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAT
TGTACATGTTCCGCAGTAACAACCTGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC
ATGTATCAAAGCTCTAAGCCTGAGAAGGTGAACTTGCTGCCTGTGGAAGGAACCAACACCTTAGTTTCA
ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTGGTGACACTGACG
ATAGAGACACCTTTCATCAAATGTCTTTCACCTGCTGATACCATTAACAGCTCTCTGCTGGCGC
CAATACATCCGCTGCTCTTACTGAGGATGGAAAACCTTTTATGTGGGGTGACAATCTGAAGGCGAGATT
GGTCTAGAAGATAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTCCTGGATCT
CTTGTGGATATTACCATTACGCTTTTGAACAATGGATGGGGAGCTCTACACATTTGGAGAACCAGAGAA
TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATACCCACGCTGTGCTGGCATTCTCT
GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAAGTTGTGTATGCCT
TTGGGCTGGGCGAGTTGGACAACCTGGGCCTTGGCACTTTTCTTTGAAACATCAGAACCACAAAATAT
TGAGCGTATTAAGGATCAGAAAATATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA
CTAGGCCCTCTGTATACTTTGGAGACGGCCGACATGGAAAGTTAGGACTTGGGATGGAGAATTTACCA
ATCAGTTCTTCTACCTTGTGCTCTAAGTTTGGAGATTTGCAGTTCAATTGATGCTGTGGTGGATG
TCATATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG
CCTTATATAAGTACAGGTTCTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTAT
CAGCACGTCTGCGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGAAACTGCCTCC
ATTAGAGGGGACTTCTGCCTCCACTTACGCTTATTTTTACCCAGTTCACCCCTTCCATTTGTCTGTG
AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAGATAAAA



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TGAACAAAGACACAGAGACAGAAAATTCTTCAGCAGTGGATTCAGAAAACCTTGGTGAACTAATGATAT
 CTTAAATATGACACATATGATGACTACGAGTCCAATGAGAAGTTATTAGATTTTTACCAATTCAAAA
 CAACAGAATCAAGACACATTTGAGAAAGTGATGAAAAGTACACCGTGCACTGAAAATGAGGATAGTTATG
 AATATGAAGAAATGTCAAAAATAAAGAAGTGACAGTGTACAAACAATATTTAGCAAAAGGGATCTACAT
 GATACGACCAGCCGAGATTCTGGAAGCATTTCAGATGAGGAAGTGGTAATGGCCTAGACCAGGTGGAG
 GAGCCCGGGTCTTCACTGATGAAAAGGCTTACAAAGCAAGCAAGTAGGAAAAGGAAAGTGAAGAGAA
 TAGTCTCTGAGAAGAAAAGTGGTGTGGAAGTGGCAGATGTGAAAAAGATTAGAGAAAAGTGAAGAGAA
 CTCAAAAATCAGATTCACATTTTTGATGACTTACCAGATAAAACCATGAATTCTGAGAGTGAAGACAATAAA
 GATATTGCTGAGGAAAGGAGAAGCAGTGAGCAGAATATGACCTTTGACAGTGAAACAGAATTGGTAGAAG
 AACACAGACAGTTACATGGAATGTGAGAGGCACAGTGAGCAAGACAGTGCTGAGGAGTTGGAGCAGCCAA
 GCTAGTAGAATATAGTAGCAAGAGAAAGATGAGAAAGATGAGAAAGATGACGATGAAGTGGAGACTGAG
 AACTTATGGTACGACAGGAAGTACTGAGCAAGAACTGAGAATGTATTAGAGCAACCAGATTTTTCC
 CAAAGTTCGATCTTAAGCATGATCATTGTCAGGGATACCAGAGGAGCAGGAAGGACCAGAGGATTCAGA
 AGGAAATGATAGTGGAGCAAGTAGTACAGGCACAAAAGGAAAATTTGGAATTTGAAGGAGACAGAAAG
 GAGGCAAAAGCAGAAGCCCATCAGATGTCATTACAGAAAAGAGGCTCCTCACTTTCAGAACTGTGA
 AACAGAAAGAGGGGAAATGGATGAGGAAATTAGTATCCTGAATGTAGAAGACACTGTAGAAGAAGAAAG
 GAAGGAAGGAGAGAAGGAGATTGTAGAAGAAGGAGTATACCTGAAACAGAAGGCTCAGAAACTATTGAT
 ATTACTGATGAGAAGCTAGATGAAGTCCTTAAAGAGGAAGACAGTGCCAGCCTTCTGCAACGGGCCCTTC
 GTGAGTACAATGAAAATCCAAAAGGACACATGTATGATCGTGTAAAGAGCAGCTCTTCAGAAATCTGGG
 AGGTAATGATCCAACAAGTAAAGACATAAAAAAGCTAAAAAATTTCTTCTTTAATCGGATGTCATTG
 ACAGGTCAGAACTGATGCAGAATACTAATGATCCACTCCAGAGATAAAGCCAATAGGAGATCAGATAG
 CCTTACAAAGTGATAAGAAAGATGCCAACACAGACACATGGGTCAAAATCTTCAGGATTCGACAACACC
 AAATATGGAGGAAAGTCCAAATCCTGTACAATTCTA **TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001177950

Insert Size:

3120 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_001177950.1, NP_001171421.1

RefSeq Size:

3680 bp

RefSeq ORF:

3120 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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.