

Product datasheet for **MC218958**

Rpgr (NM_001177953) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_001177953) 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: >MC218958 representing NM_001177953
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAAGAGGGTCGCGATGGGGTCCAGGGGTAGGCGAGCACCCTTAGGCTCAATCGAGTCGCCCTG
CTATCTTCCGAAGCAGGCACAGATTCCGTTTCGAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCTAGCAAATTCGGTTT
AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAT
TGTACATGTTTCGCGAGTAACTGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC
ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGTGCCTGTGGAAGGAACACACCTTAGTTTCA
ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACTGACG
ATAGAGACACCTTTCATCAAATGTCTTTACACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGC
CAATACATCCGCTGCTCTTACTGAGGATGGAAAACCTTTTATGTGGGGTGACAATTCTGAAGGCCAGATT
GGTCTAGAAGATAAAAAGTAAATGTATGTATCCCTCATGAAGTGAATGGTGGAAAGCCAATTTCTGGATCT
CTTGTTGGATTACCATTGAGCTTTTGTAAATGGATGGGGAGCTCTACACATTTGGAGAACCCGAGAA
TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGCATTCTCT
GAGAGGGTCATTCAAGTGGCCTGTTGGTGGAGGGCACACTGTGGTCTCACAGAGAAAAGTTGTGTATGCCT
TTGGGCTGGGGCAGTTTGGAACACTGGGCCTTGGCACTTTTCTTTTGAACATCAGAACCCAAAATTAT
TGAGCGTATTAAGGATCAGAAAATATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA
CTAGGCCCTCCTGTACTTTTTGGAGACGGCCGACATGGAAAGTTAGGACTTGGGATGGAGAATTTACCA
ATCAGTTCTTCTACCTTGCTCAACTTTTTGAGATTTGCAGTTCAATTGATTGCCTGTGGTGATG
TCATATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG
CCTTATATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTAT
CAGCACGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGGAACACTGCCTCC
ATTAGAGGGGACTTCTGCCTCCTTCACTTATTTTTACCCAGTTCCACCCCTTCCATTTGTCTGTG
AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAAGATAAA
TGAACAAAACACAGAGACAGAAAATTTCTCAGCAGTGGATTGAGAAAATTTGGTGAACCTAATGATAT
CTTAAATATGTAATTTTCTGGCTATTAGATATGAGTTATGTGAATTTTAATTA**CTGTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001177953

Insert Size:

1674 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_001177953.1](#), [NP_001171424.1](#)

RefSeq Size: 2711 bp

RefSeq ORF: 1674 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 (5) lacks exons in the 3' coding region and differs in the 3' coding region and UTR compared to variant 1. The resulting protein (isoform 5) is shorter and has a distinct C-terminus compared to isoform 1.