

Product datasheet for **MC221292**

Rpgr (NM_011285) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_011285) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpgr
Synonyms:	Rd9; Rp3h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221292 representing NM_011285
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAAGAGGGTCGCGATGGGGTCCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG
 CTATCTTTCCGAAGCAGGCACAGATTCCGTTTCGCAAGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
 CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCTAGCAAATTTCTGGTTT
 AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAAT
 TGTACATGTTCCGCAGTAACAACGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC
 ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGTGCCTGTGGAAGGAACACACCTTAGTTTCA
 ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACACTGACG
 ATAGAGACACCTTTCATCAAATGTCTTTCACCTGCTGATACCATTAACAGCTCTCTGCTGGCGC
 CAATACATCCGCTGCTCTTACTGAGGATGGAAAACTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT
 GGTCTAGAAGATAAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTTCTGGATCT
 CTTGTGGATATTACCATTGAGCTTTTGTAAACAATGGATGGGGAGCTCTACACATTTGGAGAACCAGGAA
 TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGGCATTCTT
 GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAAGTTGTGTATGCC
 TTGGGGCTGGGGCAGTTTGGACAACGGGCTTGGCACTTTTCTTTTGAACATCAGAACCACAAAATTTAT
 TGAGCGTATTAAGGATCAGAAAAATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA
 CTAGGCCCTCCTGTATACTTTTGGAGACGGCCGACATGAAAAGTTAGGACTTGGGATGGAGAATTTACCA
 ATCATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG
 CCTTATATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTAT
 CAGCACGTCTGCGGCGAAGAGAGCGGGAGACCCCATGCTCAGCTTCAATGGTGGAAACTGCTCCTC
 ATTAGAGGGGACTTCTGCCTCCACTTCAGCTTATTTTTACCCAGTTCACCCCTTCCATTTGTCTGTG
 AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAGATAAAA
 TGAACAAAGACACAGAGACAGAAAATTTCTCAGCAGTGGATTGAGAAAACTTTGGTGAACATAATGAT
 CTTAAATATGACACATATGATGACTACGAGTTCCAATGAGAAGTTATTAGATTTTTACCAATTCAAAA
 CAACAGGCTCCTCAACTTTCAGAACTGTGAAACCAGAAGAAGGGGAAATGGATGAGGAAATTAGTATCC
 TGAATGTAGAAGACACTGTAGAAGAAGAAAGGAAGGAAGGAGAGAAGGAGATTGTAGAAGAAGGAAGT
 ACCTGAAACAGAAGGCTCAGAACTATTGATTAATGATGAGAAAGCTAGATGAAGTCTTAAAGAGGAA
 GACAGTGCACGCTTCTGCAACGGGCCCTTCGTGAGTACAATGAAAATCCAAAAGGACACATGTATGATC
 GTGTAAGAGCAGCTCTTCAGAAATTTGGGAGGTAATGATCCAACAAGTAAAGACATAAAAAAGCTAA
 AAAATTTCTTCTTTAATCGGATGTCATTGACAGGTGAGAACTGATGCAGAATACTAATGATCCACTC
 CCAGAGATAAAGCCAATAGGAGATCAGATAGCCTTACAAAGTGATAAGAAAGATGCCAACCAAGACACA
 TGGGTCAAATCTTCAGGATTCGACAACACCAAATATGGAGGGAAAGTCCAAATCCTGTACAATTTCTATA
 A

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_011285
 Insert Size: 2241 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:	<ol style="list-style-type: none"> 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. Isoform 3 is shorter compared to isoform 1.</p>