

Product datasheet for MC209322

Rpgr (NM_001177954) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_001177954) 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)
Fully Sequenced ORF:	>MC209322 representing NM_001177954 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCAAGAGGGTCGCGATGGGGTCCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG
 CTATCTTCCGAAGCAGGCACAGATTCCGTTTCGAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
 CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCCTAGCAAATCTGGTTT
 AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAT
 TGTACATGTTTCGGCAGTAACAACCTGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC
 ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGCTGCCTGTGGAAGGAACACACCTTAGTTTCA
 ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACACTGACG
 ATAGAGACACCTTTCATCAAATTGTCTTCTTACACCTGCTGATACCATTAACAGCTCTCTGCTGGCGC
 CAATACATCCGCTGCTCTTACTGAGGATGGAAACTTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT
 GGTCTAGAAGATAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTCCTGGATCT
 CTTGTGGATATTACCATTCAGCTTTTGTAAAGTAAGATGAACAGTTTGTATTCATTCCAAGTTATTA
 CTGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001177954
Insert Size:	777 bp


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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001177954.1, NP_001171425.1</u>
RefSeq Size:	2507 bp
RefSeq ORF:	777 bp
Locus ID:	19893
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 (6) lacks exons in the 3' coding region and differs in the 3' coding region and UTR compared to variant 1. The resulting protein (isoform 6) is shorter and has a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>