

Product datasheet for **MC220753**

Rpgr (BC036959) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (BC036959) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpgr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >BC036959
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCAAGAGGGTCGCGATGGGGTCCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG
 CTATCTTTCCGAAGCAGGCACAGATTCCGTTTCGAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
 CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCTAGCAAATCTGGTTT
 AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAAT
 TGTACATGTTCCGACAGTAACTGGGGTCACTTAGGATAGGATCAAAAGCTGCTATCATCAAGCCAAC
 ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGTGCCTGTGGAAGGAACACACCTTAGTTTCA
 ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCACTGGGGCTTGGTACACTGACG
 ATAGAGACACCTTTCATCAAATGTCTTTCACCTGCTGATACCATTAACAGCTCTCTGCTGGCGC
 CAATACATCCGCTGCTTACTGAGGATGGAACTTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT
 GGTCTAGAAGATAAAAGTAAATGTATGTATCCCTCATGAAGTACTGTTGGAAAGCCAATTCCTGGATCT
 CTTGTGGATATTACCATTGAGCTTTTGTAAACAATGGATGGGGAGCTCTACACATTTGGAGAACCAGGAA
 TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGCATTCT
 GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAAGTTGTGTATGCC
 TTGGGCTGGGGCAGTTTGGACAACCTGGCCTTGGCACTTTTCTTTTGAACATCAGAACCCAAAATTTAT
 TGAGCGTATTAAGGATCAGAAAAATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA
 CTAGGCCTCCTGTATACTTTTGGAGACGGCCGACATGGAAAGTTAGGACTTGGGATGGAGAATTTACCA
 ATCAGTTCTTTTCTACCTTGTGCTCTAACTTTTTGAGATTTGCAGTTCAATTGATTGCTGTGGTGGATG
 TCATATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG
 CCTTATATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCCAAGAAGTTCACTGAATAGATCTTTAT
 CAGCACGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGAAACTGCCTCC
 ATTAGAGGGGACTTCTGCCTCCACTTCACTTATTTTTACCCAGTTCACCCCTTCCATTTGTCTGTG
 AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAGATAAAA
 TGAACAAAGACACAGAGACAGAAAATTTCTCAGCAGTGGATTGAGAAAATTTGGTGAACCTAATGATAT
 CTTAAATATGACACATATGATGACTACGAGTTCCAATGAGAAGTTATTAGATTTTTACCAATTCAAAA
 CAACAGGCTCCTCAACTTTCAGAACTGTGAAACCAGAGAAGGGGAAATGGATGAGGAAATTAGTATCC
 TGAATGTAGAAGACACTGTAGAAGAAGAAAGGAAGGAAGGAGAGAAGGAGATTGTAGAAGAAGGAAGTAT
 ACCTGAAACAGAAGGCTCAGAACTATTGATATTACTGATGAGAAGCTAGATGAAGTCTTAAAGAGGAA
 GACAGTCCAGCCTTCTGCAACGGGCCCTTCGTGAGTACAATGAAAATCCAAAAGGATCTGGAGACTCAC
 CACTAGAAGACGATGGAGTCTGGTATTACACTCTCTATAAAGGTGAATTCTTTGCTTCTGTGCTGAC
 AAGGACCCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC036959

Insert Size: 1401 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: [BC036959](#)

RefSeq Size: 2213 bp

RefSeq ORF: 2042 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]