

## Product datasheet for **MG222847**

### **Rpgr (NM\_001177953) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_001177953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rpgr
Synonyms:	Rd9; Rp3h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222847 representing NM\_001177953  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAAGAGGGTCGCGATGGGGTCCCAGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCTG  
 CTATCTTTCCGAAGCAGGCACAGATTCCGTTTCGAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC  
 CGATACAGGTGCTGTGTTTACGTTTGGAAAACTAAATTTGCCGAAAATATTCTAGCAAATTTCTGGTTT  
 AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAAT  
 TGTACATGTTCCGCAGTAACTGGGGTCACTTAGGATAGGATCAAAAGCTGCTATCATCAAGCCAAC  
 ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAACTTGTGCCTGTGGAAGGAACACACCTTAGTTTCA  
 ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCACTGGGGCTTGGTGACACTGACG  
 ATAGAGACACCTTTCATCAAATGTCTTTCACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGC  
 CAATACATCCGCTGCTCTTACTGAGGATGGAAAACCTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT  
 GGTCTAGAAGATAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTTCTGGATCT  
 CTTGTGGATATTACCATTGAGCTTTTGTAAACAATGGATGGGGAGCTCTACACATTTGGAGAACCCGAGAA  
 TGGGAAGTTGGGCCTTCCAATGAGCTGCTGATGAATCACAGATCACCCAGCGTGTGCTGGGCATTCTT  
 GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAAGTTGTGTATGCC  
 TTGGGCTGGGGCAGTTTGGACAACCTGGGCCTTGGCACTTTTCTTTTGAACATCAGAACCCAAAATTTAT  
 TGAGCGTATTAAGGATCAGAAAAATGTCATATTTCTGTGGAGAAAACCATACAGCTTTGATGACAGAA  
 CTAGGCCTCCTGTATACTTTTGGAGACGGCCGACATGAAAAGTTAGGACTTGGGATGGAGAATTTACCA  
 ATCAGTTCTTTCTACCTTGTGCTCTAACTTTTGTAGATTGCACTTCAATTGATTGATGGTGGATG  
 TCATATGCTAGTTTTTGGCACTCCAGACTTGGTACAATAGATGAACCTAAATTTGAAGAGCTATATGAG  
 CCTTATATAAGTACAGTTCTTTTTCCATCAATGACCTCTCCCAAGAAGTTCACTGAATAGATCTTTAT  
 CAGCACGTCTGCGGCGAAGAGAGCGGGAGAGACCCCATGCTCAGCTTCAATGGTGGAAACTGCTCCTC  
 ATTAGAGGGGACTTCTGCCTCCACTTCACTTATTTTTACCCAGTTCACCCCTTCCATTTGTCTGTG  
 AATAACTACCCAGAGAAAAGCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTGAAGATAAAA  
 TGAACAAAGACACAGAGACAGAAAATTTCTCAGCAGTGGATTGAGAAAACCTTGGTGAACCTAATGATAT  
 CTTAAATATGTAATTATTTCTGGCTATTAGATATGAGTTATGTGAATTTAATTACTTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>MG222847 representing NM\_001177953  
 Red=Cloning site Green=Tags(s)

MPRGSRWGSQGVGQHLRLNRVAPAIQPKQAQIPFAGFGMAESES LVPDTGAVFTFGTKFAENIPSKFWF  
 KNDIPICLSCGDEHTAIVTGNNKLYMFGSNNWQQLGLGSKAAIIKPTCIKALKPEKVLAACGRNHTLVS  
 TDTGGVYAAGGNNEQLGLGDTDDRDTFHQIVFFTPADTIKQLSAGANTSAAALTEDGKLFMWGDNSEGQI  
 GLEDKSNVICPHEVTVGKPISWISCGYYHSAFVTMDGELYTFGEPENGLGLPNELLMNHRSPQRVLGIP  
 ERVIQVACGGHTVVLTEKVVYAFGLGQFGLGLGTLFETSEPKIIERIKDQKICHISCGENHTALMTE  
 LGLLYTFGDGRHGKLGGMENFTNQFFPTLCSNFLRFVQLIACGGCHMLVFATPRLGTIDEPKFEDVYE  
 PYISTGFSINDLSPRSSLNRSLSARLRRRERERPPCSASMVGTLPPLEGTSASTSAYFYPPSPPFHLSV  
 NNYPEKSPSESMELDSDYFEDKMNKDTEENSSAVDSENFGETNDILNMVIIISWLLDMSYVNFNYL

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

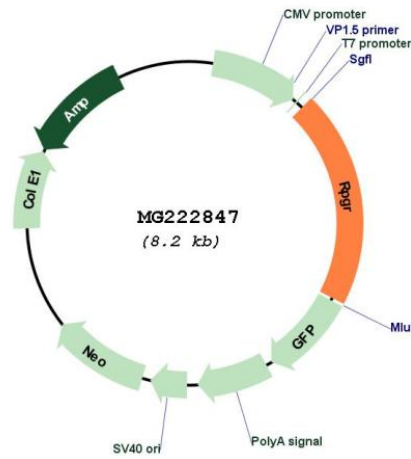
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001177953
<b>ORF Size:</b>	1671 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001177953.1</a> , <a href="#">NP_001171424.1</a>
<b>RefSeq Size:</b>	2711 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	19893
<b>Cytogenetics:</b>	X A1.1
<b>Gene Summary:</b>	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]