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Product datasheet for MR222847

Rpgr (NM_001177953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgr (NM_001177953) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpgr
Synonyms:	Rd9; Rp3h
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR222847 representing NM_001177953
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAAGAGGGTCGCGATGGGGGTCCCAGGGGGTAGGGCAGCACCTTAGGCTCAATCGAGTCGCCCCTG
CTATCTTTCCGAAGCAGGCACAGATTCCGTTCGCAGGCTTCGGCATGGCGGAATCTGAGTCACTGGTGCC
CGATACAGGTGCTGTGTTTACGTTTGGAAAAACTAAATTTGCCGAAAATATTCCTAGCAAATTCTGGTTT
AAAAATGACATACCCATATGTCTTTCATGTGGAGATGAACATACTGCTATTGTTACAGGAAATAATAAAT
TGTACATGTTCGGCAGTAACAACTGGGGTCAGTTAGGATTAGGATCAAAAGCTGCTATCATCAAGCCAAC
ATGTATCAAAGCTCTTAAGCCTGAGAAGGTGAAACTTGCTGCCTGTGGAAGGAACCACACCTTAGTTTCA
ACAGATACTGGTGGCGTATATGCAGCTGGTGGAAATAATGAAGGTCAACTGGGGCTTGGTGACACTGACG
ATAGAGACACCTTTCATCAAATTGTCTTCTTTACACCTGCTGATACCATTAAACAGCTCTCTGCTGGCGC
CAATACATCCGCTGCTCTTACTGAGGATGGAAAACTTTTTATGTGGGGTGACAATTCTGAAGGGCAGATT
GGTCTAGAAGATAAAAGTAATGTATGTATCCCTCATGAAGTGACTGTTGGAAAGCCAATTTCCTGGATCT
CTTGTGGATATTACCATTCAGCTTTTGTAACAATGGATGGGGAGCTCTACACATTTGGAGAACCCGAGAA
TGGGAAGTTGGGCCTTCCCAATGAGCTGCTGATGAATCACAGATCACCCCAGCGTGTGCTGGGCATTCCT
GAGAGGGTCATTCAAGTGGCCTGTGGTGGAGGGCACACTGTGGTTCTCACAGAGAAAGTTGTGTATGCCT
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ATCAGTTCTTTCCTACCTTGTGCTCTAACTTTTTGAGATTTGCAGTTCAATTGATTGCCTGTGGTGGATG
TCATATGCTAGTTTTTGCCACTCCACGACTTGGTACAATAGATGAACCTAAATTTGAAGACGTATATGAG
CCTTATATAAGTACAGGTTCTTTTTCCATCAATGACCTCTCCCCAAGAAGTTCACTGAATAGATCTTTAT
CAGCACGTCTGCGGCGAAGAGAGCGGGAGAGACCCCCATGCTCAGCTTCAATGGTGGGAACACTGCCTCC
ATTAGAGGGGACTTCTGCCTCCACTTCAGCTTATTTTTACCCCAGTTCACCCCCCTTCCATTTGTCTGTG
AATAACTACCCAGAGAAAAGCCCCTCTGAATCAATGGAGCCACTGGACTCAGATTATTTTGAAGATAAAA
TGAACAAAGACACAGAGACAGAAAATTCTTCAGCAGTGGATTCAGAAAACTTTGGTGAAACTAATGATAT
CTTAAATATGGTAATTATTTCCTGGCTATTAGATATGAGTTATGTGAATTTTAATTACTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

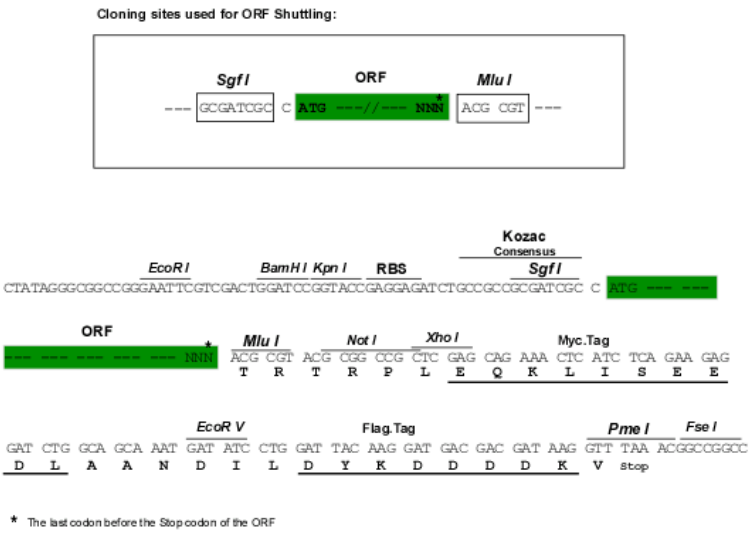
>MR222847 representing NM_001177953
Red=Cloning site Green=Tags(s)

MPRGSRWGSQGVGQHLRLNRVAPAIFPKQAQIPFAGFGMAESESLVPDTGAVFTFGKTKFAENIPSKFWF
KNDIPICLSCGDEHTAIVTGNNKLYMFGSNNWGQLGLGSKAAIIKPTCIKALKPEKVKLAACGRNHTLVS
TDTGGVYAAGGNNEGQLGLGDTDDRDTFHQIVFFTPADTIKQLSAGANTSAALTEDGKLFMWGDNSEGQI
GLEDKSNVCIPHEVTVGKPISWISCGYYHSAFVTMDGELYTFGEPENGKLGLPNELLMNHRSPQRVLGIP
ERVIQVACGGGHTVVLTEKVVYAFGLGQFGQLGLGTFLFETSEPKIIERIKDQKICHISCGENHTALMTE
LGLLYTFGDGRHGKLGLGMENFTNQFFPTLCSNFLRFAVQLIACGGCHMLVFATPRLGTIDEPKFEDVYE
PYISTGSFSINDLSPRSSLNRSLSARLRRRERERPPCSASMVGTLPPLEGTSASTSAYFYPSSPPFHLSV
NNYPEKSPSESMEPLDSDYFEDKMNKDTETENSSAVDSENFGETNDILNMVIISWLLDMSYVNFNYL

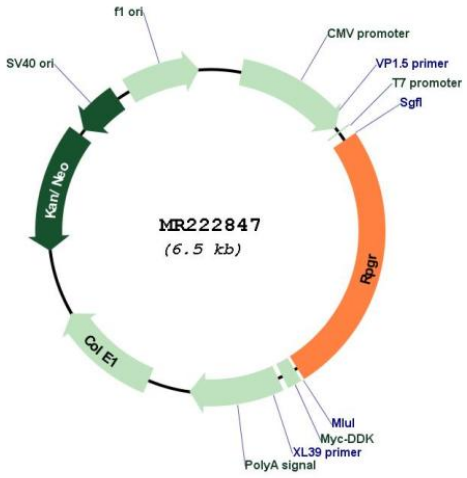
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001177953
ORF Size:	1671 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	61.4 kDa
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]