

Product datasheet for MC223653

Rpgrip1 (NM_001168515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgrip1 (NM_001168515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpgrip1
Synonyms:	0610005A07Rik; 4930401L23Rik; 4930505G06Rik; A930002K18Rik; AA415034; nmf247
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223653 representing NM_001168515 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAGCATCTACTAGAATATATGCCAGAGGATCTGCCAGTTAGAGACACAGATTGAGTCCTCTGTTGA
AAGGGACGTCGGGTAAGAATGTAAGGGCCAGCCGCACTTGGGCAGGATGAACCAGAAGGAGCTGAACTG
CAGACGCCCTTACCTCCATGAAGAGCCACGTTGGTGAAGGAACCTTCTCCAAAGCAACGAGATAAAAAAC
AGAAGGCGAAGGACGAACGTGCAGCGATCCACAACACCCACCGGACCTACGGACACTTGCTGTGCTCC
AGGAGCCAGAGAGGCGCAGGCGGCCGCTGGGTCTCAGCGTCCCCGAGCCCCCTCGGCGCCCCCGCGCGCACC
AGTTCCCGGGAGGAAAGCGCATGTGCAGCGCCTGTGTCCCTCGACCGCGGTAGGCAGTGCACAGCCTCGA
GTCCACGCGGGACGCGAGACTGCCCCACATAGCTGGGCCAAATGACAGGCGCAGCCATACAGCCCCCTCCCG
CATTTAAAGACTATGTGGCGGACAAGAACCAGAATCGAAATAACCAGGGAGCCAGCCAACTTACTCA
CACCATGACGACTGATTCTACACATGTGGAAGAGATCCCAGATCTCCTGAGAAAACATCCAAAGTTGAA
AAGCCTGAACAGAGAAGCTCAGAGGAGTGAAGCTCAGAGAGCTTGAAGGAGTTCGAGCTTCCATTAAAGGAGA
ACGTGGAGCTGATTCGCCTTAAGAAGCTTTACAGGAGAGGAATACCTCGCTGGCAGCCACAGAAGCCCA
ACTGACACGAGTTCAAGAGGCATATGAAGACTTGCTTCAAAGAATCAGGGAATATTGGATACAGCCCAT
AATGCCTTCCCTCAGCCAAGTGAATGAGCTCAAGGCAGAGCTGAGTGAAGAGAGCAAGAAGGCTGTGAGCT
TGAGGACTCAGCTGGGAGATGTGTCTATCTTGAGATAAATCTGAAGGAGTTTCAGGTGAGAGTTGAAGA
TTTGAAAAGGAACGGAACTGTGAGTGACAGTTATGACAGACTCTTAGAGAATGCTGGATAGTAGT
CATCAGCCTCTGGATAGCAGTCATCAGCCTCACTGGAGCACGGAGCTCACAGGGAAGCAGCTCCCACCGC
AAGTCTGTCCACTGCTGGACCAATGGGCACTGCGCTGGAGGAGACCAAGTCTTTCGTCAGCAACCAA
CAAAGCAGCTCAAGATGGAAAGCTGAAGTTTCAAGACACCGACATCCTTTACCAGCATGAACAGGAAGAA
GAGAGCCTTCAGTCAACTGCCACTGTAGCCTCATCTCCAGAAGAGCTGTGTGAAGTGGCTGCTCAGCCCA
CTCTACTCCACAGACAGATCAGAGAGAGTCCAGTGAACCAAAAGCTCAAGACGAGAATGACTTATCCCA
GGTGCTAAGCGAGCTGCAAGTGTACATGCAGAGACCACACTGGAAGTGGAAAAAACAGAGATATGCTT



[View online »](#)

```
CTTCTGCAGCGCAAAATCAACATGTGTTATCAGGAGGAGCTGGAGGCAACACTGACAAAAGCTGACAGGG
AAAAACAGGGACCACGAAGAGAACTGGAGCGGCTGAATCACCTCCTGGACTTCAAGAACAGCCGCATCAA
ACAGCTGGAAGGAGCTGGTGGAGAAGACTTGGGGGTGTTAGAGTACTGGATGAGGCTGTGCCTGCCCTA
AAACCCAGCCTCCAGGCATGCAATAAGCGAAAGAAAGCCAGGCCTACCTGTCAGTCAGTGTGCTTGGAG
CTCGGAAGGTCCAGAGCAATGAGTCCAGATCCGAAACCTGGGCGCCTCAGAATGAGCTTCGGGTTGAGAT
CACCAGGTGCTGCGGCCCTCCGGAGTCGACGGCTGGGAAGGCAGCCAGTCCGTATGTCATGTACCGCTTC
TTCACCTTTCTGACCATGACACCATCATCTCCAGCCAGCAGCAATCCATACTTTAAAGACCAGGCTC
TGTTTCCCGTGCTTGACCTCTGACCTGGACCAGTATCTGAGGCGGGAAGCTCTGTCTGTCTATGTTTT
TGATGATGAAGACCCAGAGCCTGGCTCCTATCTTGGCCGAGCCAGGTGCCCTTGTGCCTCTTGACAA
AACAAATCTATCAAAGGTGATTTCAATCTCACAGACTCTGGGAGAAGTCCAATGGATCCATCAAAGTGC
AACTAGACTGGAAGTCTCACTACCTAGCCCCAGAGGGCTTCCAGATGTCAGAAGTGAGAAGCCGGAGGG
TGAAGAGAAGGAGGAGGAAGGGGAGAGGAGGAGGAAGAGGAGGAGGAGGACGAGAAGGAAGAGGAGGAA
GAGGAAGAGGAAGAAGAGGAGGAAGAGGAGGAGGATGAGAACAAGATGTCCTGGAGGCCTATTACGG
AAGAATGGGTCCCCTTTTTTCCCAGGACCAGATAGCATCTACAGAGATTTCCATAGAGGCTGGCCAGTA
CCCAGAGAAGAGAAAACCTCCTGTAATAGCAGAAAAGAAGGAAAGAGAGCATCAGGTCGCAAGCTACTCA
CGAAGAAAACACAGCAAAAAACAGGTGTCCAAGACAAGAACAGAATGGAATATCTGAGCTGTAACATCT
TGAATGGAACACACAGCAGATGCATTACACGGAGTGGAAGTTCTCAGGGCTCAAGAAGGCCGAGGATGG
TGGCTTAAAGCTCAGGACAAGAGAGAGGAACCGCCATCACCCCGTTCAGCACTGAGACAGGAGCATCCC
TCACATCTAGAAATGCCTTCTCCCTAGCAGACCAGGAATCCTGTGAACAAGCTTCTGAAGTCAGTGAAA
CACAGACTACCGACAGCGATGACATCATAGTGACACCCAGGCTCAGACGGTTCCTAAAGCCGATTGAGA
GAAGATGTGCATTGAAATCGTCTCACTGGCCTTCTGCCCTGAGGCTGACGTCATGTCTGATGAGACTATC
CAGCAGGTATATGTGGAGTACAAATCTGTGATCTGCCTCTATCGGAGACAGAGACTCCGATGTCCCTGA
GGAAACCAAGGCAGGCGAAGAAATCCACTTCCACTTTAGCAAGGTGATAGATCTGGACCCTGTGGAGCA
CCAAAGCCGAAGGCAGTTTTTGTGGCCATGCTACATGCTCAAGATTCTGATGAGGGACGTTTCAAGTTT
ACAGTGGAAGTATCTCTGGATGAAGAAAAAAGAATGTCAAGATATAGGCTATGCATACCTTGAAC
TGTGGCAGATATTTCAATCTGGAAAAGATATCCTAGAGCAAGAACTAGAGATTGTGAGCCCTAGAAACCA
GGCCATCCAAATTGGAAGGCTGAAGGTTCCCTCCAAGCAGCTGCTGCCCTCCATGGCATTATAAGGAG
ATGACTGAAGATCTGTTTTCA
```

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001168515
Insert Size:	3384 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001168515.1](#), [NP_001161987.1](#)

RefSeq Size: 4626 bp

RefSeq ORF: 3384 bp

Locus ID: 77945

UniProt ID: [Q9EPQ2](#)

Cytogenetics: 14 C2

Gene Summary: May function as scaffolding protein. Required for normal location of RPGR at the connecting cilium of photoreceptor cells. Required for normal disk morphogenesis and disk organization in the outer segment of photoreceptor cells and for survival of photoreceptor cells.
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has multiple differences in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.