

Product datasheet for MC224118

Rpgrip1l (NM_173431) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpgrip1l (NM_173431) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rpgrip1l
Synonyms:	1700047E16Rik; 4931437C01; Ftm; Nphp8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224118 representing NM_173431 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGGCCCAAGTGACGAGACAGCAGGAGACCTGCCGGTAAAAGATACAGGTCTAAACCTCTTTGGAG
TTGGAGGGTTACAAGAACTCAACTGCACGCACAGTGAAGACTCGCCAGGCAGTGTACGTGTACGTGCG
TGAAGAACTGGAAGACAGATTTTTCGTTTGCATGATGAGAATTTTACTTAAACAGCATGCCCGCAAG
CAAGAGGATAAAATTAAGAATGGCCACCAAGTTAATACGGCTAGTTAATGACAAGAAAAGATATGAGC
GGTTGGTGGCGGCCCAAGCGGCTGGGACGAGATGTGGAAATGGAAGAAATGATTGAGCAGCTGCAAGA
AAAAGTTCATGAGCTTGAAGACAAAATGAAGTCTCAAAAACAGGCTGATATCAGCCAAACAGCAGCTC
CAAGTCCAGGGACACAGGCAGACGTCGTACAGTCGAGTGCAGGCTCGAGTTAACCCGGCCCGGAGAG
CAAGTGCCAGTGCAGGCTCGCAGGAATGCCCTGGGAAAGGTCTAAGATTTCAAAATGTGGATGAAGCAGA
AACTGTACAACCCACGCTCACAAAATACAGCAATAGTTTACTTGAAGAAGCCAGAGGAGAAAATAAGAAAT
TTGGAAAATGTTATTCAGTCACAGAGAGGCCAGATAGAAGAGTTAGAGCACTTGGCAGAGATCCTGAAAA
CTCAGTTGAAGAGAAAAGAAAATGAAATCGAGCTATCTCTTTCAGCTTCGAGAACAGCAGGCTACAGA
TCAGAGGTCAAAATATTCGGGACAATGTAGAACGATTAAGCTTCATAAACAACTAGTGGAGAAAAGCAAT
GCTCTTTCAGTCATAGAAGGAAAATTTATTCAGCTTCAAGAGAAGCAAAGAACAACACTCAGGATCAGCCATG
ATGCCTTGATGGCCAATGGAGATGAGCTGAACAAGCAGCTTAAGGAGCAGCGTCTGAAGTGTGTCAGCCT
TGAGAAGCAGCTGCACTCGGTGAGGTTTTTCAGAAAAGGAGAGTAGAGGAGCTGCAGGATAGAATTAATGAT
TTAGAAAAGGAGCGGAACTATTAAGGAAAATATGATAAACTTTATAACAGCGCCTTCAGTGCTGCC
ATGAAGAGCAGTGAAGTTAAAGGAGCAGCAGATGAAAGTGCAGATTGCTCAGCTCGAACTGCCTTAAA
ATCTGATCTTACAGACAAAACCGAAGTCTTGACAAAATAAAGACTGAAAGAGACCAAAATGAGAAACTG
GTTCAAGAGAATAGAGATCTACAGCTGCAGTGTCTGCAGCAAAGCAGCGGCTGCATGAGCTTCAGAGCC
GCCTGAAGTCTTCAACCAGGAGAGTGACATCAATGCTGTGACCTCAGTGAAGCACTCCTGCTTATAAA
GGCTCAAAAAGAACAAAAAATGGAGATCTTTCATTTTTAGAAAAGTGGACAGCAAATCAATAAAGAT



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CTAGACCGATCCATGAAAGAGCTTCAAGCAACTCATGCAGAAACAGTACAAGAACTTGAAAAGACAAGAA
 ATATGTTAATTATGCAACATAAAAATAAATAAAGACTATCAGATGGAAGTTGAAACAGTGACTCAGAAAAT
 GGAAAAATTTGCAACAAGATTATGAACTCAAAGTGGAAACAATATGTTTCATCTTCTCGATATCAGGGCTGCA
 CGCATCCAAAAGCTTGAAGCCAGTTAAAGGATATTGCCTATGGCACTAAGCAGTACAAAATTTAAACCAG
 AAATCATGCCAGATGACTCAGTTGATGAATTTGATGAAACCATCCACCTAGAACGAGGAGAAAATCTCTT
 TGAATCCACATCAACAAAGTCACCTTTTCTTCTGAAGTCCTTCGGGCATCTGGTGATAAAGAACTTGTC
 ACTTTCTGTACCTACGCTTTCTATGACTTTGAACTGCAGACTACTCCCATAGTGGCAGGCCTTTACCCGG
 AGTATAAECTTCACTTCTCAGTATCTGGTCCACGTCAATGACTTATTTTTGTCAGTACATTCAGAAGAACAC
 TGTACCGCTGGAGCTCCACCAAGCCACAGCACAGATTACGAAACAATTGCAGCGTGTGAGTTGAGATTC
 CATGAGATTCTAGAAAAAGTGGTGAATTTTTGCACAACAAGCTTAGTTGAACTAAAGGAGACATCC
 CAAATTTTGGCACAGTAGAATACTGGTTCGGATTAAGAGTTCCCATGGATCAAGCTATTCGACTTTATCG
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 GGCACATGACAAGTGATCTCAGGAATATTTGAGTTGATGGATAAGGAAAAGCATGCTGCAGGAATATC
 CAAGTTATATTGAAATGGAAATTCACCTACCTCCACCAAGTGGATCAATAACTACTGAAGACCTTGAA
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 TGTAGCACAAAACCTAAACCAAGACAACGTTTAACTTTGTGGACAAAAGGTCTCTTTGTCAGATACC
 ATATCACACCCGAGTCCCGAGACTTCTCTCCCTAAAGATATAAAAGACAGTTCTCCAGAAGTGGGAC
 CAAAACCAAGAAAATGGTCTGTGAGTGTTCGTATCCTTCCAAGGAAAGCGGTGTGGCTAAGGTAGAAGA
 AAATGTGGGGGAAATGCAACAAGGGAAAGAAGACGACATCTCTTTCTTATCTGAGGGCCAGCTTGCCTCA
 GGAAGTGTGGCTTCTCTGAAGATGAAACAGAAAATAACTGAAGAATTGGAACAGAGATGAAGACAGAT
 CAGCTTCAGACAGTGATGACTGTATCATTCCAAGTTCTGTCTCCACAAATACCAACAGCCATCAGAAGA
 AATTCGGATTGAGATCATAGCTCTGAACCTTAATGATTCTCAAATAACCAGGGAGGATACTATTCAGCGA
 CTCTTCATTGAGTGCCGGTTCTACAGTCTTCCCGCTGAGGAGACTCCTATGTCCCTGCCAAAACCCAGA
 GTGGACAGTGGGTCTACTATAACTATTCGAATGTGATCTACCTGGATAAAGAAAACAACCCAGCGGTGAG
 AGACATCTTAAAAGCCATACTGCAAAGGCGAGAAGTGCCTCACAGAAGTGTGCGCTTACCCTGGTCACT
 GATCCTCCCGAGGACGAGCAGGACCTAGAATGTGAGGACATTGGGGTTGCCATGTTGACCTTGCTGACC
 TGTTTCAGAAAGGAAGAGACATCATAGACAAAGATATTGATGTTCTCGATGCCCGAACAGACGGTGGCAC
 CATCGGCAAACTGAAGGTGACTGTGGAAGCACTTCATGCCCTACGGTCTGTCTACGAGCAAAATAGAAAG
 GACTTGGAGGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_173431
Insert Size: 3795 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_173431.2](#), [NP_775607.2](#)

RefSeq Size: 6969 bp

RefSeq ORF: 3795 bp

Locus ID: 244585

UniProt ID: [Q8CG73](#)

Cytogenetics: 8 44.29 cM

Gene Summary: Negatively regulates signaling through the G-protein coupled thromboxane A2 receptor (TBXA2R) (By similarity). May be involved in mechanisms like programmed cell death, craniofacial development, patterning of the limbs, and formation of the left-right axis. Involved in the organization of apical junctions; the function is proposed to implicate a NPHP1-4-8 module. Does not seem to be strictly required for ciliogenesis (By similarity). Involved in establishment of planar cell polarity such as in cochlear sensory epithelium and is proposed to implicate stabilization of disheveled proteins (PubMed:22927466). Involved in regulation of proteasomal activity at the primary cilium probably implicating association with PSDM2 (PubMed:26150391).[UniProtKB/Swiss-Prot Function]