

Product datasheet for MC225162

Ralgapa1 (NM_001003719) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ralgapa1 (NM_001003719) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ralgapa1
Synonyms:	2310003F20Rik; 4930400K19Rik; AI563624; Garnl1; GRIPE; mKIAA0884; Tulip1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225162 representing NM_001003719 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCTCTAAGAAGCCGCACGGGGACGTGAAGAAGTCCACCCAGAAGGTGCTGGACACCAAGAAGGACG
CGCTGACCCGCCCAAGCACCTGCGCATCGTCATCGAGAATGCAGAATCTATTGACCTTAAACAGTTTTT
TGACCAACATTTTTACATATATACTATGTGTTTTTTGAAAATTTGTGACTATTGAAGCTAGTCTTAAA
CAGAAAGGTCACAAGTCTCAAAGAGAGGAATTAGATGCTATACTTTTTATTTTTGAGAAAATTTACAAC
TTCTTCCAGAAAGAAATTCATCAGCGATGGCAATCCATAGTATTGGGTTGATTTTAAAGAACTACTGCA
CACAGGAACTCCTTAAAGATCAGACGGGAAGGTGTCGTCCTCTTGTATGGTTGCAAGCTCTTCAG
GATAACTGCAGCAAAGAAGACGCTCTGGATGTTTTATGCTTGTATCCCTGGATTCTCAGCACCACAATCCG
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GTTGCCACGTCGCTGTAAATGCTTACATGCTGGTCACTATGTCCTAGACTTCAGATTACCAGC
CGCAGTCTCCCTGAAAATTTACAGATCTTAAGCAACTATCACCCACCTTTTGGCAAGTACAGAAGC
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CAACCTTAGTGTCTGTATCCAGATAAGATCGGAAGAGATGCTGGAGGAGGCTAGCTGCTGGCCT
TGTGTCAGCCAACTCAAATGTTAGAATCATAGTACGTGATCTCTGGAAGTACTCATGGGATTCTGCC
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AAGAGAAACCGGAAGAGCCTCTACATCTAACGAATGCTTGAAGACATCGCAGTAAAAGATGGGCTTTC
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TTCCTGCTCCACAGCCTCTGTGCATTTCTGAAAAACAGGAGAATGATGTCATTAATGCTATCCTTAAGCA

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 AAATACTCCATTCTACCAATATAGGAGGAAGCCAAGCATATGAAGATTTGTAGCTGGCCTTGGTTGGG
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 GAGACTACAGGAGGAATTATTCCTACTGAGTTTGGTGTATGTCCTCATTGTAATATACCAATGAAAA
 CCACATGTTTCAGTATCCAGATCATGAAAAACCAGAGGTTCCCTTCTTTGGTCCACTTTTTGATGGTGCT
 ATTGTGAATGGAAAAGTTCTGCCATTATGTTTCGATCCACAGCAATAAATGCTAGCCGTGCTCTGAAAT
 CACTGATTCCATTGTATCAAAATTTCTATGAGGAGAGAGCAGGTACCTGCAGACAATTGTCAGCACCA
 TTTAGAGCCAACAACATTTGAAGACTTTGCAGCACAGGTTTTCTCCAGCTCCCTACCATCATTCCCT
 GCTGACGCAGTTGGATCCTACCCAGAGATTCCACCCAGTGACGCTGCCCCAGCAGCACAGGTAGACGGGG
 CTGACCTGGCCTCTCCATGTCTCTCGAACTAGCAAAAGCCGCATGTCCATGAAGCTGCGTCGGTCTCT
 TGGCTCAGCCAATAAATCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001003719

Insert Size:

6252 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_001003719.2](#), [NP_001003719.1](#)

RefSeq Size: 8249 bp

RefSeq ORF: 6252 bp

Locus ID: 56784

UniProt ID: [Q6GYP7](#)

Cytogenetics: 12 C1

Gene Summary: Catalytic subunit of the heterodimeric RalGAP1 complex which acts as a GTPase activator for the Ras-like small GTPases RALA and RALB (By similarity). May interact with the HLH region of TCF3/isoform E12.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) lacks an in-frame exon in the 5' coding region and an internal exon in the 3' region which results in an alternate downstream termination codon, compared to variant 4. The resulting isoform (3) lacks an internal segment but has a longer and distinct C-terminus, compared to isoform 4.