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Product datasheet for MR221346

Rap1gap (NM_001081155) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gap (NM_001081155) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rap1gap
Synonyms:	1300019I11Rik; 2310004O14Rik; AI427470; ARPP-90; Gap; Rap1ga1; Rap1GAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR221346 representing NM_001081155
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGCCGGAAGCGCAGCTTCACCTTCGGTGCCTATGGAGGGGTGGACAAATCCTTCTCCCTTCGAC
AGAGTGTGTGGAGGAGTGATGGGCAGAAGCAGAGTTTCCCTCAGGCACTAAACCTGTTACTGGTGGACTC
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ACCCAAGTGTCCATGAGGTTTTGGGGCGAGAAGGGCCCTTCCCCCTCATCCTACTGCCCCAGTTTGGGGG
CTACTGGATTGAAGGCACCAACCATGAAATCAGCAGCCTCCCTGAGACAGAGCCGCTGCAGTCTCCCACC
ACCAAGGTCAAGCTGGAGTGCAACCCCACAGCCCGAATCTACCGGAAGCACTTTCTGGGCAAGGAGCACT
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TCAGGAGCACCTGCGGCTGTTGCTTAGGACCAAGTGTCGGACCCACCACGATGTCATCCCCATCTCCTGC
CTCACCGAGTTCCCCAACGTGGTCCAGATGGCAAAGCTGGTATGTGAGGATGTCAATGTGGATCGATTCT
ACCCCGTGCTTTACCCTAAGGCCTCCAGGCTCATTGTCACCTTTGACGAACATGTTATCAGCAATAACTT
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GGTCTCTGTCACTGCTAGAGACGATGTGCCCTTTTTTGGGCCTCCCCTCCCGGATCCTGCTGTGTTTAGG
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CAGGCCTGGAGAGCGTGTCGTCCTCAGGAACTCCCCATAAGCGGGACTCCTTCCTCTACAGCACATGGCT
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GGCAAGTCGGGGGACCCTGCGTGTCCCGAGATCAAGATCCAACTGGAAACATCTGAGCAGCACACACCCC
AGATGGGCTGC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221346 representing NM_001081155
Red=Cloning site Green=Tags(s)

MSGRKRSFTFGAYGGVDKSFSLRQSVWRSDGQKQSFPQALNLLLVDSVPSHPASPYPKNTDLFEMIEKMQ
GSRMDEQRCSFPPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIEGTNHEISSLPETEPLQSPT
TKVKLECNPTARIYRKHFLGKEHFNYYSLDTALGHLVFSLKYDVIGDQEHLRLLLRTKCRTHHDVIPISC
LTEFPNVVQMAKLVCEDVNVDRFYPVLYPKASRLIVTFDEHVISNNFKFGVIYQKLGQTSEEELFSTNEE
SPAFVEFLEFLGQKVKLQDFKGFRGGLDVTHGQTGTESVYCNFRNKEIMFHVSTKLPYTEGDAQQLQRKR
HIGNDIVAVVFQDENTPFVPDMIASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDVPFFGPPLPDPAVFR
KGPEFQEFLLTKLINAEYACYKAEKFAKLEERTRAALLETLYEELHIHSQSMMGLGGDDDKMENGSGGGG
FFESFKRVIRSRSQSMDAMGLSNKKPNTVSTSHSGSFTPNNPDLAKAAGISLIVPGKSPTRKKSGPFGSR
RSSAIGIENIQEVQEKRESPPAGQKTPDSGHVSQEPKSENSSTQSSPEMPTTKNRVESAAQRTEVLQGFS
RSSSSASSFTSVVEETEGVDGDDTGLESVSSSGTPHKRDSFLYSTWLDDSVSTTSGGSSPGLTRSPHPDV
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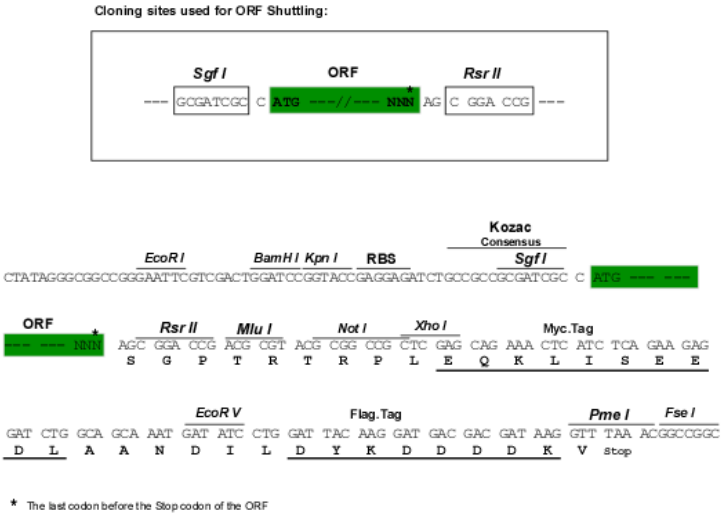
Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001081155

ORF Size: 2181 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.

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

RefSeq: NM_001081155.3

RefSeq Size: 3218 bp

RefSeq ORF: 2184 bp

Locus ID: 110351

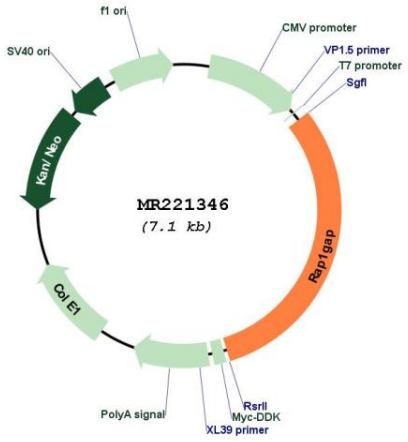
UniProt ID: A2ALS5

Cytogenetics: 4 70.02 cM

MW: 81 kDa

Gene Summary: GTPase activator for the nuclear Ras-related regulatory protein RAP-1A (KREV-1), converting it to the putatively inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221346