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Product datasheet for MC228794

Rap1gap (NM_001256218) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gap (NM_001256218) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC228794 representing NM_001256218
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGCCGGAAGCGCAGCTTCACCTTCGGTGCCTATGGAGGGGTGGACAAATCCTTCTCCCTTCGAC
AGAGTGTGTGGAGGAGTGATGGGCAGAAGCAGAGTTTCCCTCAGGCACTAAACCTGTTACTGGTGGACTC
AGTTCCCTCCCACCCTGCTTCACCCTACCCTAAGAACACAGATCTGTTTGAGATGATTGAAAAGATGCAG
GGAAGCAGGATGGATGAACAGCGATGCTCCTTCCCGCCACCCCTCAAGACGGAGGAGGACTACATTCCCT
ACCCAAGTGTCCATGAGGTTTTGGGGCGAGAAGGGCCCTTCCCCCTCATCCTACTGCCCCAGTTTGGGGG
CTACTGGATTGAAGGCACCAACCATGAAATCAGCAGCCTCCCTGAGACAGAGCCGCTGCAGTCTCCCACC
ACCAAGGTCAAGCTGGAGTGCAACCCCACAGCCCGAATCTACCGGAAGCACTTTCTGGGCAAGGAGCACT
TCAATTACTATTCACTGGACACTGCTCTCGGCCACCTGGTATTCTCGCTCAAGTATGATGTCATCGGGGA
TCAGGAGCACCTGCGGCTGTTGCTTAGGACCAAGTGTCGGACCCACCACGATGTCATCCCCATCTCCTGC
CTCACCGAGTTCCCCAACGTGGTCCAGATGGCAAAGCTGGTATGTGAGGATGTCAATGTGGATCGATTCT
ACCCCGTGCTTTACCCTAAGGCCTCCAGGCTCATTGTCACCTTTGACGAACATGTTATCAGCAATAACTT
CAAGTTTGGAGTCATTTATCAGAAGCTTGGCCAGACCTCTGAGGAAGAACTATTCAGTACCAACGAGGAA
AGTCCTGCCTTCGTGGAATTCCTGGAGTTTCTGGGCCAGAAAGTGAAATTGCAGGATTTCAAGGGGTTCC
GAGGAGGCCTTGACGTGACTCACGGGCAGACGGGGACCGAGTCCGTATACTGCAACTTCCGCAACAAGGA
GATCATGTTTCACGTGTCCACCAAGCTGCCATACACAGAAGGGGACGCTCAGCAGTTGCAGCGGAAGCGG
CATATCGGGAACGACATCGTCGCTGTGGTCTTCCAGGACGAAAACACGCCCTTCGTGCCAGACATGATTG
CATCCAACTTTCTGCATGCCTATGTGGTGGTGCAGGCAGAGGGGGGTGGCCCCGATGGCCCCCTCTACAA
GGTCTCTGTCACTGCTAGAGACGATGTGCCCTTTTTTGGGCCTCCCCTCCCGGATCCTGCTGTGTTTAGG
AAGGGGCCTGAGTTCCAGGAATTTCTGCTGACGAAGTTGATCAATGCCGAGTATGCGTGTTACAAAGCAG
AGAAGTTTGCCAAACTGGAGGAGCGGACGCGTGCCGCCCTTCTTGAGACGCTCTACGAGGAGCTCCATAT
TCACAGCCAGTCCATGATGGGCCTCGGCGGCGACGACGACAAGATGGAGAACGGCAGCGGTGGGGGTGGC
TTCTTCGAGTCTTTCAAGAGGGTCATCCGGAGCCGGAGTCAGTCCATGGATGCCATGGGACTGAGCAACA
AGAAACCCAACACCGTGTCAACTAGCCACAGTGGGAGCTTCACCCCCAACAACCCTGACCTGGCCAAGGC
AGCCGGCATATCCCTGATTGTCCCTGGAAAAAGCCCCACAAGGAAGAAGTCTGGTCCGTTTGGCTCACGC
CGCAGCAGTGCCATTGGCATCGAGAACATCCAGGAGGTTCAGGAGAAGAGGGAGAGCCCTCCAGCTGGCC
AGAAGACCCCAGACAGCGGGCATGTCTCACAAGAGCCCAAGTCAGAGAACTCATCCACTCAGAGCTCCCC
AGAGATGCCCACGACCAAGAACAGAGTGGAGTCGGCTGCCCAGAGAACGGAAGTGCTGCAGGGCTTCTCC
AGATCTTCCTCCAGCGCCAGCAGCTTCACCAGCGTGGTGGAGGAGACGGAGGGCGTAGACGGGGATGATA
CAGGCCTGCACATGGCTGGACGACAGCGTGAGCACCACGAGCGGGGGCAGCTCCCCAGTGAGGTGGCTCC
CTCCTGCCCCCCTTCCCAGGCCTCACACGGTCACCCCACCCAGACGTCGGCAAGTCGGGGGACCCTGCGT
GTCCCGAGATCAAGATCCAACTGGAAACATCTGAGCAGCACACACCCCAGATGGGCTGCTAGCTGTCACC
TCATCAGCAGGCGGGACTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001256218

Insert Size: 2190 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).

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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001256218.1, NP_001243147.1
RefSeq Size:	3243 bp
RefSeq ORF:	2190 bp
Locus ID:	110351
Cytogenetics:	4 70.02 cM
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] Transcript Variant: This variant (2) uses two different splice sites in the 3' coding region which shifts the reading frame, compared to variant 1. The resulting protein (isoform 2) has a longer and distinct C-terminus when it is compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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