

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGCCGGAAGCGCAGCTTCACCTTCGGTGCCTATGGAGGGGTGGACAAATCCTTCTCCCTTCGAC
 AGAGTGTGTGGAGGAGTGATGGGCAGAAGCAGAGTTCCCTCAGGCACTAAACCTGTTACTGGTGGACTC
 AGTTCCCTCCCACCCTGCTTCACCTACCCTAAGAACACAGATCTGTTTGAGATGATTGAAAAGATGCAG
 GGAAGCAGGATGGATGAACAGCGATGCTCCTCCCGCCACCCCTCAAGACGGAGGAGACTACATTCCCT
 ACCCAAGTGTCCATGAGGTTTTGGGGCAGAAGGGCCCTCCCTCATCTACTGCCCAAGTTGGGGG
 CTAAGTGAAGGCACCAACCATGAAATCAGCAGCCTCCCTGAGACAGAGCCGCTGCAGTCTCCACC
 ACCAAGTCAAGCTGGAGTGAACCCACAGCCGAATCTACCGAAGCACTTTCTGGGCAAGGAGCACT
 TCAATTACTACTGACACTGCTCTCGGCCACCTGGTATTCTCGCTCAAGTATGATGTCATCGGGGA
 TCAGGAGCACCTGCGGCTGTTGCTTAGGACCAAGTGTGCGACCCACCACGATGTCATCCCATCTCTGC
 CTCACCGAGTTCCCAACGTGGTCCAGATGGCAAAGCTGGTATGTGAGGATGTCATGTGGATCGATTCT
 ACCCCGTGCTTTACCCTAAGGCCTCCAGGCTCATTGTCACCTTTGACGAACATGTTATACGAATAACT
 CAAGTTTGGAGTCATTTATCAGAAGCTTGGCCAGACCTCTGAGGAAGAACTTTCAGTACCAACGAGGAA
 AGTCTCTGCCTTCGTGGAATTCCTGGAGTTTCTGGGCCAGAAAGTAAAATTGCAGGATTTCAAGGGTTCC
 GAGGAGGCCTTGACGTGACTCACGGGCAGACGGGACCGAGTCCGTATACTGCAACTCCGCAACAAGGA
 GATCATGTTTCACGTGTCCCAAGCTGCCATACAGAAGGGGACGCTCAGCAGTTGCAGCGGAAGCGG
 CATATCGGGAACGACATCGTCTGCTGTGGTCTTCCAGGACGAAAACACGCCCTTCGTGCCAGACATGATTG
 CATCCAACCTTTCTGCATGCCTATGTGGTGGTGCAGGCAGAGGGGGTGGCCCGATGGCCCTCTACAA
 GGTCTCTGCTACTGCTAGAGACGATGTGCCCTTTTTGGGCCTCCCTCCCGGATCCTGCTGTGTTTAGG
 AAGGGGCTGAGTCCAGGAATTTCTGCTGACGAAGTTGATCAATGCCGAGTATGCGTGTACAAAGCAG
 AGAAGTTTGCACAACTGGAGGAGCGGACGCGTCCGCCCTTCTGAGACGCTCTACGAGGAGCTCCATAT
 TCACAGCCAGTCCATGATGGGCCTCGGCGGCGACGACGACAAGATGGAGAACGGCAGCGGTGGGGTGGC
 TTCTTCGAGTCTTTCAAGAGGTCATCCGGAGCCGGAGTCAGTCCATGGATGCCATGGGACTGAGCAACA
 AGAAACCAACACCGTGTCAACTAGCCACAGTGGGAGCTTACCCCAACAACCTGACCTGGCCAAGGC
 AGCCGGCATATCCCTGATTGTCCCTGGAAAAAGCCCAAGGAAGAAGTCTGGTCCGTTTGGCTCACGC
 CGCAGCAGTGCCATTGGCATCGAGAATCCAGGAGTTCAGGAGAAGAGGGAGACCCCTCCAGTGGCC
 AGAAGACCCAGACAGCGGCATGTCTACAAGAGCCCAAGTCAGAGAATCATCCACTCAGAGTCCCC
 AGAGATGCCACGACCAAGAACAGAGTGGAGTCCGGTCCCGAGAGAACGGAAGTCTGCAGGGCTTCTCC
 AGATCTTCTCCAGCGCCAGCAGCTTACCAGCGTGGTGGAGGAGACGGAGGGCGTAGACGGGGATGATA
 CAGGCCTGCACATGGCTGGACGACAGCGTGAGCACCACGAGCGGGGCGAGCTCCCAAGTGGGTGGCTCC
 CTCTGCCCTTCCAGGCCTCACACGGTACCCCAACCCAGACGTCGGCAAGTCGGGGACCCCTGCGT
 GTCCCGAGATCAAGATCCAACCTGGAACATCTGAGCAGCACACCCCAAGATGGGCTGCTAGCTGTCACC
 TCATCAGCAGGCGGGAC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-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).

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:	<ol style="list-style-type: none"> 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:	<u>NM_001256218.1</u> , <u>NP_001243147.1</u>
RefSeq Size:	3243 bp
RefSeq ORF:	2190 bp
Locus ID:	110351
Cytogenetics:	4 70.02 cM
Gene Summary:	<p>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]</p> <p>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.</p>