

Product datasheet for **MC228481**

Rasa1 (NM_001281999) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasa1 (NM_001281999) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rasa1
Synonyms:	MRASAL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228481 representing NM_001281999
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGTGTTGGAGCTGCGGGAGGCTCCGGGGACCACGTCCCGCTGCGAGTGGAACCTGCGGATTGGGA
 CATGGTGGGCAAGAATGACTTCCTGGGTGGAGTTCACCCACAGACCCTGCAGCAGAAGCCACCTAATGG
 CTGTTCCGGCTCCTGCCCTTCTAGAGCTGAGGATTCTGGGGGAGCCTGGGTGCCCTGCGGCTGAAG
 GTGCGCCTCACTGAGGACCGGTCTGCCTCCAGTACTACCAGCCTCTCATGGAACCTGTTCTGGAGT
 CGGTGCAAGGGCCGGCTGAGGAGGACACCAGCCCCCTGGCTCTGCTAGAGGAGCTGGCTCTGGGGA
 CTGTGCTCAGGACCTGCCACCAAGCTGGTGAAGCTGTTCTGGGCCGGGCTGGCCGGGCCCTTTCTA
 GATTATCTCACAAGGCGTGAGGTGGCTCGAACCAATGACCCCAACACCCTTCCGTTCTAACTCCTTGG
 CATCCAAGTCGATGGAACAGTTCATGAAGCTCGTGGGCATGCGCTACCTGCACGAGGTCTGAGGCCAGT
 GATCAGCCCGCTTCGAGGAGAAGAAATATATGGAACCTGGACCCTTGAAGATGGACCTGAACCGCTCT
 CGGAGGATCTCCTTCAAGGGCACGCCACAGAGGAGCAGGTACGGGAGACCAGCCTGGGGCTGCTGACCG
 GATACCTAGGGTCCGTTGTGGACGCCATCGTGAGCTCTACAGGGCGCTGCCACTTGCCCTTGCCTTGGC
 CTTAAGCAGCTCCAGCGGTGTGTGGAGAAGCGCTTCTCTGGGATAGAGCATCAGGATGTGAAGTACCTG
 GCCATCAGTGGCTTCTCTTTGCGGTTCTTTGCGCCTGCCATCCTCACACCGAAACTGTTTGACCTCA
 GAGACCAGCACGACACCCAGACCAGCCGTTCCCTGCTGCTGCTCGCCAAGGCTGTGCAGAGCATTGG
 GAACCTGGGCCAGCAGCTGGGCCAGGGCAAGGAGCAGTGGCTAGCCCCGCTCCATCCCTTCTGCTGCAG
 AGCATCTACGTGTGAGGACTTCCTGGACCAGCTGGTGGATGTGGACGAGGATGAGGAGCCGGGGGTC
 CAGCTGCGCCCTGGTCCAACCCTCAACCATTGTTGAGAAGGCTTCTGCTGAAGCGCAAGGAGGAGCC
 TGGAGGCTGGCCACGCGCTTTCCTTCAAGAAGCGCTACTTCCGGCTGAGTGGGCGGGACCTCTCTAC
 TCCAAGACTCCGGAGTGGCAGGTTACACATCCATCCCGCTGTCCTGCATCCGGGCTGTGGAGCATGTGG
 ACGAGGGTGCCTTTCAACTGCCACACGTATGCAGGTGGTACACAGGATGGCGCCGGGCGTACACACAC
 CACCTACCTCCAGTGAAGAAGTGAATGACCTCAACCAATGGCTGTGAGCCCTGCGCAAAGCCAGTGGC
 CCCAACCCGGGCAAGCTGGTTCCTGCCACCCTGGTGCCTTCCGACGCGGGCGCTGGACCTGCTGCCTCC
 AGGCTGAGCGCTCAGCTGCTGGTGTAGCCGCACACACTCAGCCATCACACTGGGAGACTGGAGTGAACC
 ACTGGATCCTGACGCCGAGGCCAGGCAGTGTATGCCAGCTGCTCTGGGGCGGGACCAGCTCAGGCTG
 AAAGTCTGGAGGATTCCAGCCTGGACACAGAAGTGGACCCTGGGAGGGACTCCAGTGCCACAGACGGGC
 CCTGTGCTGAGGTTCTGGCCAGCAGAGAGCAGCCACAACCCACCTGCTGCAGGTAATTGAAGACTTGA
 GCAAGCCACGAGGAGTCCAGAAACGGGGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001281999
- Insert Size:** 1854 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:

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_001281999.1](#), [NP_001268928.1](#)

RefSeq Size: 3259 bp

RefSeq ORF: 1854 bp

Locus ID: 19415

Cytogenetics: 5 F

Gene Summary: Probable inhibitory regulator of the Ras-cyclic AMP pathway. Plays a role in dendrite formation by melanocytes.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, initiates translation at an alternate start codon, and uses an alternate splice site in its 5' coding region compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus 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.