

Product datasheet for **MR230692**

Rasa1 (NM_001281999) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR230692 representing NM_001281999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTGTTGGAGCTGCGGGAGGCTCCGGGGACCACGTCCCGCTGCGAGTGGAACCTGCGGATTGGGA
 CATGGTGGGCAAGAATGACTTCCTGGGTGGAGTTCACCCACAGACCCTGCAGCAGAAGCCACCTAATGG
 CTGTTCCGGCTCCTGCCTTTCTAGAGCTGAGGATTCTGGGGGAGCCTGGGTGCCCTGCGGCTGAAG
 GTGCGCCTCACTGAGGACCGGTCTGCCTTCCAGTACTACCAGCCTCTCATGGAACCTGTTCTGGAGT
 CGGTGCAAGGGCCGGCTGAGGAGGACACCAGCCCCCTGGCTCTGCTAGAGGAGCTGGCCTCTGGGGA
 CTGTGCTCAGGACCTGCCACCAAGCTGGTGAAGCTGTTCTGGGCCGGGCTGGCCGGGCCCTTTCTA
 GATTATCTCACAAGGCGTGAGGTGGCTCGAACCAATGACCCCAACACCCTTCCGTTCTAACTCCTTGG
 CATCAAGTCGATGGAACAGTTCATGAAGCTCGTGGGCATGCGCTACCTGCACGAGGCTCTGAGGCCAGT
 GATCAGCCGCGTCTTCGAGGAGAAGAAATATATGGAACCTGGACCCTTGAAGATGGACCTGAACCCTCT
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 GATACCTAGGGTCCGTTGTGGACGCCATCGTGAGCTCTACAGGGCGCTGCCCACTTGCCCTTGCCTTGGC
 CTTAAGCAGCTCCAGCGGTGTGTGGAGAAGCGCTTCTCTGGGATAGAGCATCAGGATGTGAAGTACCTG
 GCCATCAGTGGCTTCTCTTTTGCCTTCTTTGCGCCTGCCATCCTCACACCGAAACTGTTTGACCTCA
 GAGACCAGCACGACAGCCCCAGACCAGCCGTTCCCTGCTGCTGCTCGCCAAGGCTGTGCAGAGCATTGG
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 AGCATCTACGTGTGAGGACTTCTGGACCAGCTGGTGGATGTGGACGAGGATGAGGAGGCCGGGGTCC
 CAGCTGCGCCCTGGTCCAACCCTCAACCATTGTTTCGAGAAGGCTTCTGCTGAAGCCGCAAGGAGGAGC
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 CCCAACCCGGGCAAGCTGGTTCCTGCCACCCTGGTGCCTTCCGACGCGGGCGCTGGACCTGCTGCCTCC
 AGGCTGAGCGCTCAGCTGCTGGTGTAGCCGCACACACTCAGCCATCACACTGGGAGACTGGAGTGACCC
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 AAAGTCTGGAGGATTCCAGCCTGGACACAGAAGTGGACCCTGGGAGGGACTCCAGTGCCACAGACGGGC
 CCTGTGCTGAGGTTCTGGCCAGCAGAGAGCAGCCACAACCCACCTGCTGCAGGTAATTGAAGACTTGGA
 GCAAGCCACGAGGAGTCCAGAAACGGGGA

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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

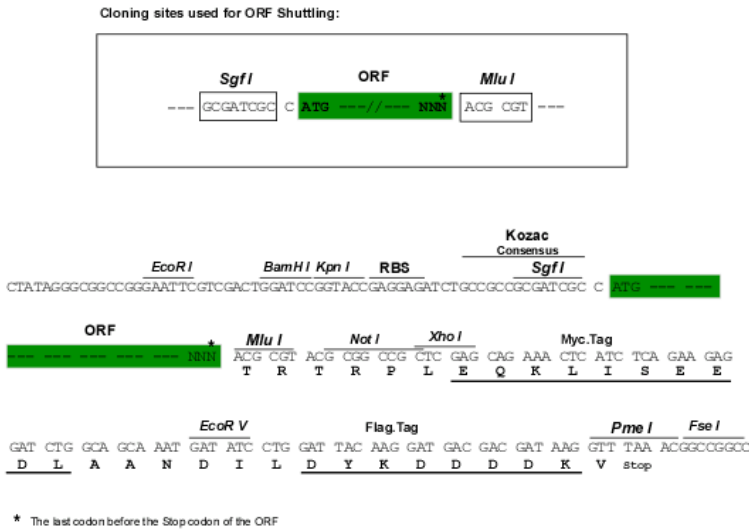
>MR230692 representing NM_001281999
 Red=Cloning site Green=Tags(s)

MRCWSCGRLRGRPRCEWNSGIGTWWARMTSWVEFTPQTLQKPPNGWFRLLPFPRAEDESSGSLGALRLK
 VRLTEDRVLPQQYQPLMELLLSVQGPAAEDTTSPLALLEELASGDCRQDLATKLVKFLGRGLAGPFL
 DYLTRREVARTNDPNTLFRSNLASKSMEQFMKLVGMRYLHEVLRPVISRVFEEKKYMELDPCKMDLNRS
 RRI SFKGTPTTEEQVRETSLLTGYLGSVVDIVSSTGRCPLALRLAFKQLQRCVEKRFSGIEHQDVKYL
 AISGFLFLRFFAPAILTPKLFDLRDQHADPQTSRSLLLAKAVQSIGNLGQQLGQKEQWLAPLHPFLLQ
 SISRVRDFLDQLVDVDEEAEAGGPACALVQPSTIVREGFLLKRKEEPGGLATRF AFKKRYFRLSGRDL
 SY SKTPEWQVHTSIPLSCIRAVEHVDEGAFQLPHVMQVVTQDGAGTSHTTYLQCKNVNDLNQWL SALRKASA
 PNPGLVACHPGAFRSGRWTCCLLQAERSAAGCSRTHSAITLGDWSDPLDPAEAQAVYRQLLLGRDQLRL
 KLLLEDSSLDTEVDPGRDSSATDGPACAEVLAQQRATTHLLQVLELDLEQAHEEFQKRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001281999

ORF Size: 1851 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.

RefSeq: [NM_001281999.2](#)

RefSeq Size: 3259 bp

RefSeq ORF: 1854 bp

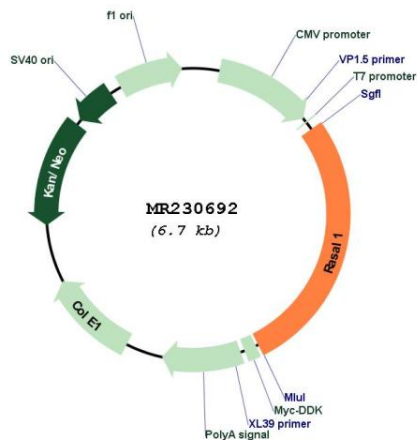
Locus ID: 19415

Cytogenetics: 5 F

MW: 69.7 kDa

Gene Summary: Probable inhibitory regulator of the Ras-cyclic AMP pathway. Plays a role in dendrite formation by melanocytes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230692