

## Product datasheet for **MR210724**

### Rasa1 (NM\_013832) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rasa1 (NM_013832) 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:**

>MR210724 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCAAGAGCGGCTCGCTGAGTATCCGCGTGGTGGAGGGACGAGCACTGCCCGCAAGGACGTGTCTG  
 GAAGCAGTGACCCCTATTGTCTGGTAAAAGTGGATGACCAAGTGGTGGCCAGGACAGCAACCATCTGGAG  
 GAGCCTGAGCCCTTTTGGGGGAGGAGTACACCGTTCACCTTCCATTGACTTCCACCACCTGGCCTTC  
 TACGTGCTGGATGAGGACACCGTTGGACACGATGACATCATTGGGAAGATCTCATTGAGCAAAGAGGCGA  
 TCACAGCCGACCCCTCGAGGGATCGACAGCTGGATCAACCTGAGCCGAGTGGATCCAGACGCTGAAGTACA  
 GGGTGAGGTCTGCCTGGATGTGAAGCTATTGGAGGATGCTCGGGGCCGCTGCCTCCGCTGCCACGTGAGA  
 CAGGCCAGGGACCTGGCCCCCGGGACATCTCTGGCACATCGGACCCATTTGCCCGTGTGTTCTGGGGCA  
 ACCATAGTTTGGAACTTCGACCATCAAGAAGACCCGCTTCCACACTGGGATGAGGTGTTGGAGCTGCC  
 GGAGGCTCCGGGGACCAGTCCCGCTGCGAGTGAAGTCTGGGATTGGGACATGGTGGCAAGAATGAC  
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 GGACCGGGTCTGCCTTCCAGTACTACCAGCCTCTCATGGAAGTCTTCTGGAGTCCGTGCAAGGGCCG  
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 GAACAGTTCATGAAGCTCGTGGCATGCGCTACCTGCAGAGTCTGAGGCCAGTATCAGCCCGCTCT  
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 GTTGTGGACGCCATCGTGAAGTCTACAGGGCGCTGCCACTTGCCTTGGCCTTGGCCTTTAAGCAGCTCC  
 AGCGGTGTGTGGAGAAGCGCTTCTCTGGGATAGAGCATCAGGATGTGAAGTACTGGCCATCAGTGGCTT  
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 CAACTGCCACACGTCATGCAGGTGGTGACACAGGATGGCGCCGGGACGTACACACCACCTACCTCCAGT  
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 CTGGCCCAGCAGAGAGCAGCCACAACCCACCTGCTGCAGTACTTGAAGACTTGGAGCAAGCCCACGAGG  
 AGTTCCAGAAACGGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR210724 protein sequence

Red=Cloning site Green=Tags(s)

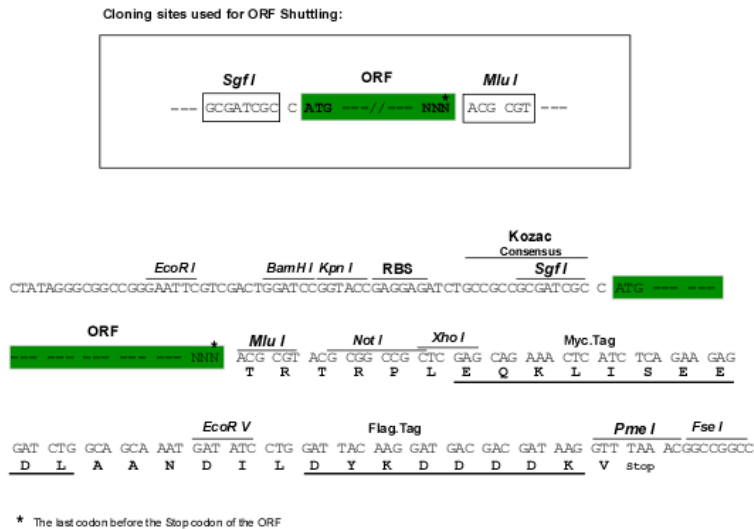
MAKSGSL SIRVVEGRALPAKDVSGSSDPYCLVKVDDQVVARTATIWRSLSPFWGEEYTVHLPDFHHLAF  
YVLDEDTVGHDDIIGKISLSKEAITADPRGIDSWINLSRVDPDAEVQGEVCLDVKLLDARGRCLRCHVR  
QARDLAPRDISGTSDFARVFWGNHSLETSTIKKTRFPHWDEVLELREAPGTTSPLRVELWDWDMVGKND  
FLGMVEFTPQTLQKPPNGWFRLPPFRAEDSGGSLGALRLKVRLTEDRVLP SQYYQPLMELLLESVQGP  
AEEDTTSPLALLEELASGDCRQDLATKLVKFLGRGLAGPFLDYLTRREVARTNDPNTLFRSNSLASKSM  
EQFMKLVGMRYLHEVLRPVISRVFEEKYMELDPCKMDLNRSRRISFKGTPTEEQVRETSLGLLTGYLGS  
VYDAIVSSTGRCLALRLAFKQLQRCVEKRFSGIEHQDVKYLAISGFLFRFFAPAILTPKLFDLRDQHA  
DPQTSRSLLLAKAVQSIGNLGQQLGQKEQWLAPLHPFLLQSI SRVRDFLDQLVDVDEDEEAGGPACAL  
VQPSTIVREGFLLKRKEEPGLATRF AFKKRYFRLSGRDL SYSKTPEWQVHTSIPLSCIRAVEHVDEGAF  
QLPHVMQVVTQDGAGTSHTTYLQCKNVNDLNQWLSALRKASAPNPGKLVACHPGAFRSGRWTCCCLAERS  
AAGCSRTHSAITLGDWSDPLDPDAEAQAVYRQLLLGRDQLRLKLLDSSLDTEVDPGRDSSATDGPCEV  
LAQQRATTHLLQVLEDLEQAHEEFQKRG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_013832

ORF Size: 2400 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\\_013832.5](#)

**RefSeq Size:** 3235 bp

**RefSeq ORF:** 2400 bp

**Locus ID:** 19415

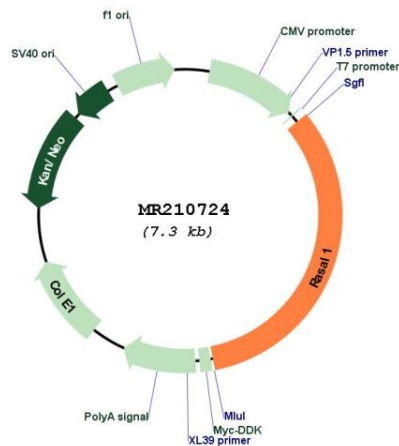
**UniProt ID:** [Q9Z268](#)

**Cytogenetics:** 5 F

**MW:** 89.4 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 MR210724