

Product datasheet for **RR213801**

Mras (NM_012981) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mras (NM_012981) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mras
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213801 representing NM_012981
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGACCAGCGCTGTCCCAGTGACAACCTTCCCACATATAAACTGGTAGTGGTGGGAGATGGCGGTG
TGGGCAAGAGTGCTCTCACTATTCAGTTTTTCCAGAAGATCTTCGTGCCTGACTACGACCCACCATTGA
AGACTCTACCTGAAGCATACAGAGATCGACAATCAATGGCCATCTTGGACGTTCTGGACACAGCTGGG
CAGGAGGAGTTTCAGTGCCATGCGGGAGCAATACATGCGCACAGGGGATGGCTTCCTCATTGTCTACTCTG
TCACCGACAAGGCCAGCTTCGAGCACGTGGACCGCTCCACCAGCTCATTCTGCGTGTCAAGGACAGGGA
GTCATTCCCAATGATCCTCGTGGCCAACAAAGTGGACCTGATGCACCTAAGGAAAATCACCAGGGACCAA
GGAAAAGAAATGGCGACCAATAACAATATCCCATATATAGAAACCAGTGCCAAGGACCCGCCTCTCAACG
TGGACAAAACCTTCCATGACCTAGTTAGAGTAATTAGGCAACAGGTTCCAGAGAAAACCAGAAGAAGAA
AAAGAAGACAAAATGGCGAGGGGACAGGGCCACCGGCACTCACAACACTACAGTGTGCATCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213801 representing NM_012981
Red=Cloning site Green=Tags(s)

MATSAVPSDNLPTYKLVVVGDDGGVGSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG
QEEFSAMREQYMRTGDGFLIVYSVTDKASFVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITRDQ
GKEMATKYNIPYIETSAKDPPLNVDKTFHDLVVRVIRQQVPEKNQKKKKKTKWRGDRATGTHKLQCVIL

TRTRPLEQKLISEEDLAANDILDYKDDDDDKV

Restriction Sites: Sgfl-MluI

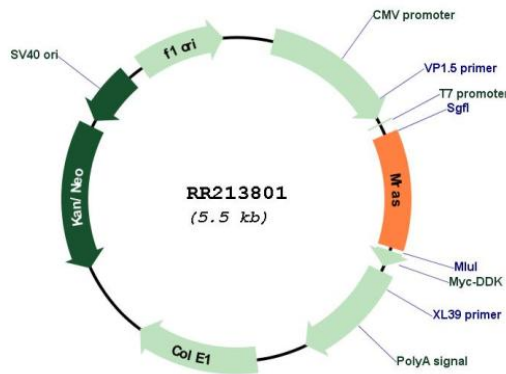


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Cloning Scheme:



Plasmid Map:



ACCN: NM_012981

ORF Size: 624 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:	<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_012981.2</u> , <u>NP_037113.2</u>
RefSeq Size:	3626 bp
RefSeq ORF:	627 bp
Locus ID:	25482
Cytogenetics:	8q31
MW:	23.9 kDa
Gene Summary:	small GTPase from skeletal muscle; may be involved in reorganization of the actin cytoskeleton [RGD, Feb 2006]