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Product datasheet for MR203599

Rassf1 (NM_019713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rassf1 (NM_019713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rassf1
Synonyms:	123F2; AA536941; AU044980; NORE2A; Rassf1A; Rassf1B; Rassf1C; RDA32; REH3P21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203599 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGAGGCTGAAACACCTTCCTTCGAAATGACCTGGAGCAGCACAACCAGCAGTGGCTACTGCAGCC
AGGAGGACTCGGACTCGGAGCTCGAGCAGTACTTCACGGCGCGTACCTCGCTGGTTCGCAGACCGCGTCG
GGACCAGGATGAGGCTGTAGAGCGGGAGACACCCGATCTTTCTCAAGCTGAGACTGAGCAGAAAATCAAG
GACTACAATGGCCAGATCAACAGCAACCTCTTCATGAGCCTGAATAAGGATGGCTCCTACACAGGCTTCA
TCAAGGTTCAGCTGAAACTAGTGCGTCCTGTTTCAGTGCCTTCCAGCAAGAAACCACCTTCCTTACAGGA
TGCCCGGAGAGGTACGGGGCGGAGCACAGCCGTGAAGCGCCGCACCTCTTTTTACTTGCCTAAGGATGCT
ATTAAGCATCTGCATGTTCTATCACGAACACGGGCACGTGAGGTCATTGAGGCCCTGCTTCGAAAATTCA
TGGTCGTAGATGATCCTCGCAAGTTTGCACTCTTTGAGCGAACTGAACGGCATGGCCAAGTATACCTCCG
GAAGCTGTCGGATGACGAGCAGCCCTTGAAGCTGCGGCTTCTTGCAGGGCCCAGTGAAAAAGCCCTGAGC
TTTGTCCTGAAGGAAAATGACTCGGGAGAGGTGAACTGGGATGCCTTCAGCATGCCTGAACTGCACAATT
TCCTACGAATCCTGCAGCGGGAAGAAGAGGAACACCTTCGCCAGATCCTGCAGAAGTATTCTCGTTGTCG
CCAGAAGATCCAGGAGGCTCTGCACGCCTGTCCTTTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

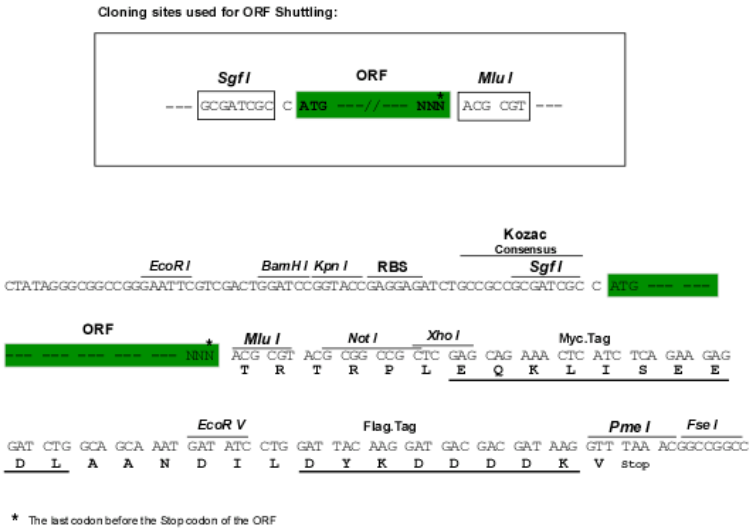
>MR203599 protein sequence
Red=Cloning site Green=Tags(s)

MGEAETPSFEMTWSSTTSSGYCSQEDSDSELEQYFTARTSLVRRPRRDQDEAVERETPDLSQAETEQKIK
DYNGQINSNLFMSLNKDGSYTGFIKVQLKLVRPVSVPSSKKPPSLQDARRGTGRSTAVKRRTSFYLPKDA
IKHLHVLSRTRAREVIEALLRKFMVVDDPRKFALFERTERHGQVYLRKLSDDEQPLKLRLLAGPSEKALS
FVLKENDSGEVNWDAFSMPELHNFLRILQREEEEHLRQILQKYSRCRQKIQEALHACPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019713

ORF Size: 813 bp

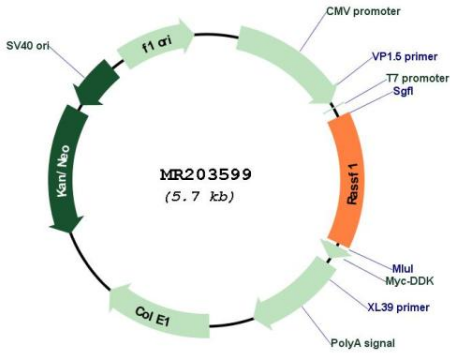
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_019713.2
RefSeq Size:	1731 bp
RefSeq ORF:	813 bp
Locus ID:	56289
UniProt ID:	Q99MK9
Cytogenetics:	9 F1
MW:	31.2 kDa
Gene Summary:	Potential tumor suppressor. Required for death receptor-dependent apoptosis. Mediates activation of Mediates activation of STK3/MST2 and STK4/MST1 during Fas-induced apoptosis by preventing their dephosphorylation. When associated with MOAP1, promotes BAX conformational change and translocation to mitochondrial membranes in response to TNF and TNFSF10 stimulation. Isoform A interacts with CDC20, an activator of the anaphase-promoting complex, APC, resulting in the inhibition of APC activity and mitotic progression. Inhibits proliferation by negatively regulating cell cycle progression at the level of G1/S-phase transition by regulating accumulation of cyclin D1 protein. Isoform C has been shown not to perform these roles, no function has been identified for this isoform. Isoform A disrupts interactions among MDM2, DAXX and USP7, thus contributing to the efficient activation of TP53 by promoting MDM2 self-ubiquitination in cell-cycle checkpoint control in response to DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203599