

Product datasheet for MR222330

Rassf5 (NM_018750) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rassf5 (NM_018750) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rassf5
Synonyms:	1300019G20Rik; Maxp1; Nore1; Nore1A; Nore1B; Rap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222330 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCCGGCCATCGGGCAACGTCCCTACCCGCTGCTCCTAGATCCCAGCCGCCGGTATCTGC
AGAGTCTGGGTGGCACCAGCCGCCACCTCCCGCCGGCCGCGCCGCTGCATCCCACGGCCCTGATCCC
CGCGGCCGGGGTGTAGAGGATCGCGGTGGCAGGAGGAGTGGCCGGAGGGACCCGAACCCACGCCCGGA
GACTGCCGACACGCTCGCCCTGTCCGGCCGGTCTGCAGCCGAGACTGCGGCTGCGACCTGGGTACACC
GACCCCGCAGCTGAGGAGCATCTTCGAGCAGCCGAGGATCCCGCGTCTTGGCCGAGAGAGGCGAGGG
GCACCGTTTCGTGGAACCTGGCGCTGCGGGCGGTCCGGGCTGGTGTGACCTGTGCGGACGAGAGGTGCTG
CGGCAGGCGCTGCGCTGCGCTAATTGTAATTCACCTGCCACTCGGAGTGCCGACGCTGATCCAGCTGG
ACTGCAGACAGAAGGGGGCCCTGCCCTGGATAGACGCTCTCCAGAAAGCACCCCTCACCCAACTTGAA
CCAGAATGTCTGTAAAGCAGTGGAGGAGACACAGCACCCGCCACGATACAGGAGATCAAGCAGAAGATT
GACAGCTAACAGCAGGGAGAAGCACTGCCTGGGCATGAAGCTGAGTGAAGATGGCACCTACACAGGTT
TCATCAAAGTGCATTTGAAGCTCCGACGGCCAGTGACGGTGGCCGCTGGGATCCGGCCCCAGTCCATCTA
TGATGCCATTAAGGAAGTGAACCTGCAGCCACCACAGACAAGCGGACTTCCTTCTACCTGCCATCGAT
GCCATCAAGCAGCTACATATCAGCAGCACCACCAGGTTAGTGAGGTCATCCAGGGCTGCTCAAGAAAT
TCATGGTTGTGGACAACCCACAGAAGTTTGCACCTTTTAAAGCGGATACACAAAGATGGACAAGTGCTCTT
CCAGAACTCTCATTGCTGACTATCCTCTCTACCTTCGCTGCTGCTGCGCTGGGCTGACACCGATGTTCTC
AGCTTTGTGCTAAAGGAGAATGAACTGGAGAGGTGGAGTGGGATGCCTTTTCCATTCTGAACTCCAGA
ACTTTTAACTATCCTGGAAAAAGAGGAGCAGGACAAGATCCATCAACTGCAAAAGAAAGTACAACAAATT
CCGTCAGAACTGGAAGAGGCATTACGAGAGTCCCAAGGGAAGCCGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222330 protein sequence
 Red=Cloning site Green=Tags(s)

MASPAIGQRPYPLLLDPEPPRYLQSLGGTEPPPARPRRCIPTALIPAAGASEDRGGRSRRDPEPTPR
 DCRHARVVRPGLQPRRLRPGSHRPRDVSIFEQPDPRVLAEREGHRFVELALRGGPGWCDLCGREVL
 RQALRCANCKFTCHSECRSLIQLDCRQKGGPALDRRSPESTLTPTLNQNVC KAVEETQHPPTIQEIKQKI
 DSYNSREKHCLGMKLSDEGTYTGFIKVHLKLRPVTVPAGIRPQSIYDAIKEVNPAAATTDKRTSFYLPD
 AIKQLHISSTTTVSEVIQGLLKKFMVVDNPQKFALFKRIHKDGGVLFQKLSIADYPLYRLLAGPDTDVL
 SFVLKENETGEVEWDAFSIPELQNF LTILEKEEQDKIHQLQKKYNKFRQKLEEALRESQGKPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018750

ORF Size: 1242 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_018750.4](#), [NP_061220.2](#)

RefSeq Size: 3421 bp

RefSeq ORF: 1242 bp

Locus ID: 54354

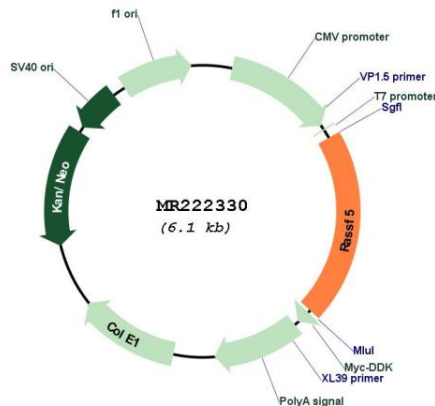
UniProt ID: [Q5EBH1](#)

Cytogenetics: 1 56.91 cM

MW: 46.7 kDa

Gene Summary: Potential tumor suppressor. Seems to be involved in lymphocyte adhesion by linking RAP1A activation upon T-cell receptor or chemokine stimulation to integrin activation. Isoform 2 stimulates lymphocyte polarization and the patch-like distribution of ITGAL/LFA-1, resulting in an enhanced adhesion to ICAM1. Together with RAP1A may participate in regulation of microtubule growth. The association of isoform 2 with activated RAP1A is required for directional movement of endothelial cells during wound healing (By similarity). May be involved in regulation of Ras apoptotic function. The RASSF5-STK4/MST1 complex may mediate HRAS and KRAS induced apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222330