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Product datasheet for RC212844

RASSF7 (NM_003475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF7 (NM_003475) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASSF7
Synonyms:	C11orf13; CFAP88; FAP88; HRAS1; HRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC212844 representing NM_003475
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGTTGGGACTGGCGGCCATGGAGCTGAAGGTGTGGGTGGATGGCATCCAGCGTGTGGTCTGTGGGG
TCTCAGAGCAGACCACCTGCCAGGAAGTGGTCATCGCACTAGCCCAAGCAATAGGCCAGACTGGCCGCTT
TGTGCTTGTGCAGCGGCTTCGGGAGAAGGAGCGGCAGTTGCTGCCACAAGAGTGTCCAGTGGGCGCCCAG
GCCACCTGCGGACAGTTTGCCAGCGATGTCCAGTTTGTCCTGAGGCGCACAGGGCCCAGCCTAGCTGGGA
GGCCCTCCTCAGACAGCTGTCCACCCCCGGAACGCTGCCTAATTCGTGCCAGCCTCCCTGTAAAGCCACG
GGCTGCGCTGGGCTGTGAGCCCCGCAAAACACTGACCCCCGAGCCAGCCCCCAGCCTCTCACGCCCTGGG
CCTGCGGCCCCTGTGACACCCACACCAGGCTGCTGCACAGACCTGCGGGGCCTGGAGCTCAGGGTGCAGA
GGAATGCTGAGGAGCTGGGCCATGAGGCCTTCTGGGAGCAAGAGCTGCGCCGGGAGCAGGCCCGGGAGCG
AGAGGGACAGGCACGCCTGCAGGCACTAAGTGCGGCCACTGCTGAGCATGCCGCCCGGCTGCAGGCCCTG
GACGCTCAGGCCCGTGCCCTGGAGGCTGAGCTGCAGCTGGCAGCGGAGGCCCCTGGGCCCCCCTCACCTA
TGGCATCTGCCACTGAGCGCCTGCACCAGGACCTGGCTGTTCAGGAGCGGCAGAGTGCGGAGGTGCAGGG
CAGCCTGGCTCTGGTGAGCCGGGCCCTGGAGGCAGCAGAGCGAGCCTTGCAGGCTCAGGCTCAGGAGCTG
GAGGAGCTGAACCGAGAGCTCCGTCAGTGCAACCTGCAGCAGTTCATCCAGCAGACCGGGGCTGCGCTGC
CACCGCCCCCACGGCCTGACAGGGGCCCTCCTGGCACTCAGGGCCCTCTGCCTCCAGCCAGAGAGGAGTC
CCTCCTGGGCGCTCCCTCTGAGTCCCATGCTGGTGCCCAGCCTAGGCCCCGAGGTGGCCCCCATGACGCA
GAACTCCTGGAGGTAGCAGCAGCTCCTGCCCCAGAGTGGTGTCCTCTGGCAGCCCAGCCCCAGGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC212844 representing NM_003475
Red=Cloning site Green=Tags(s)

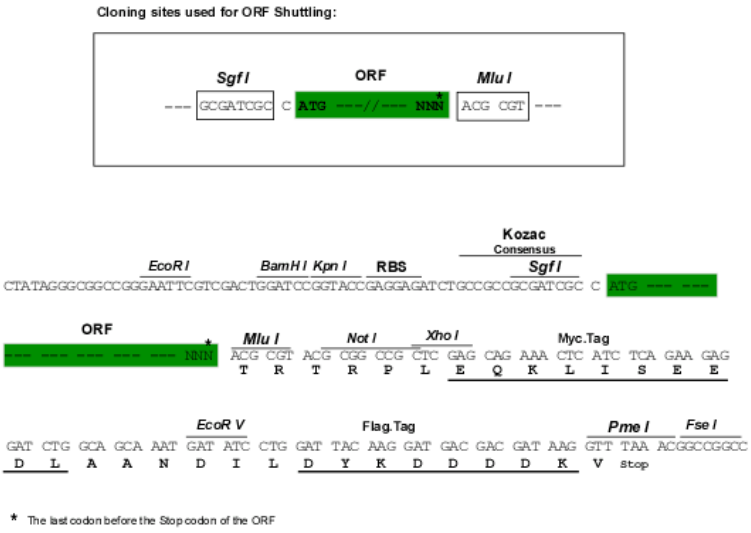
MLLGLAAMELKVWVDGIQRVVCGVSEQTTCQEVVIALAQAIGQTGRFVLVQRLREKERQLLPQECPVGAQ
ATCGQFASDVQFVLRRTGPSLAGRPSSDSCPPPERCLIRASLPVKPRAALGCEPRKTLTPEPAPSLSRPG
PAAPVTPTPGCCTDLRGLELRVQRNAEELGHEAFWEQELRREQARELREGQARLQALSAATAEHAARLQAL
DAQARALEAELQLAAEAPGPPSPMASATERLHQDLAVQERQSAEVQGSLALVSRALEAAERALQAQAQEL
EELNRELRQCNLQQFIQQTGAALPPPPRPDRGPPGTQGPLPPAREESLLGAPSESHAGAQPRPRGGPHDA
ELLEVAAAPAPEWCPLAAQPQAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8023_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003475

ORF Size: 1119 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_003475.4

RefSeq Size: 1539 bp

RefSeq ORF: 1122 bp

Locus ID: 8045

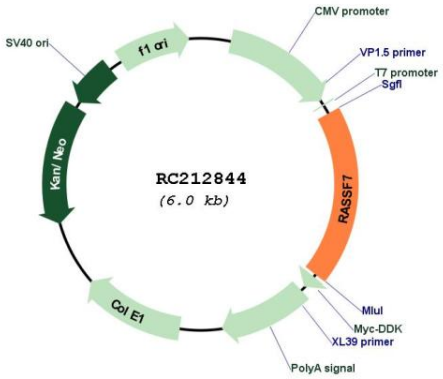
UniProt ID: Q02833

Cytogenetics: 11p15.5

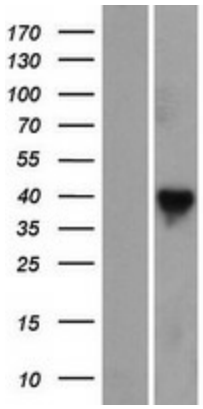
MW: 39.8 kDa

Gene Summary: Negatively regulates stress-induced JNK activation and apoptosis by promoting MAP2K7 phosphorylation and inhibiting its ability to activate JNK. Following prolonged stress, anti-apoptotic effect stops because of degradation of RASSF7 protein via the ubiquitin-proteasome pathway. Required for the activation of AURKB and chromosomal congression during mitosis where it stimulates microtubule polymerization.[UniProtKB/Swiss-Prot Function]

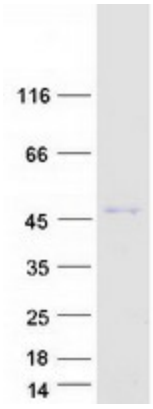
Product images:



Circular map for RC212844



Western blot validation of overexpression lysate (Cat# [LY418659]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RASSF7 protein (Cat# [TP312844]). The protein was produced from HEK293T cells transfected with RASSF7 cDNA clone (Cat# RC212844) using MegaTran 2.0 (Cat# [TT210002]).