

## Product datasheet for **RC227985**

### RASSF7 (NM\_001143993) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF7 (NM_001143993) 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:	>RC227985 representing NM_001143993 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGTTGGGACTGGCGGCCATGGAGCTGAAGGTGTGGGTGGATGGCATCCAGCGTGTGGTCTGTGGG  
TCTCAGAGCAGACCCTGCCAGGAAGTGGTCATCGCACTAGCCCAAGCAATAGGCCAGACTGGCCGCTT  
TGTGCTTGTGCAGCGCTTCGGGAGAAGGAGCGGCAGTTGCTGCCACAAGAGTGTCCAGTGGCGCCAG  
GCCACCTGCGGACAGTTTGCCAGCGATGTCCAGTTTGTCTGAGGCGCACAGGGCCAGCCTAGCTGGGA  
GGCCCTCCTCAGACAGCTGTCCACCCCGAACGCTGCCTAATTCGTGCCAGCCTCCCTGTAAGCCACG  
GGCTGCGCTGGGCTGTGAGCCCCGAAAACACTGACCCCGAGCCAGCCCCAGCCTCTCAGCCCTGGG  
CCTGCGGCCCTGTGACACCCACACCAGGCTGCTGCACAGACCTGCGGGGCTGGAGCTCAGGGTGCAGA  
GGAATGCTGAGGAGCTGGGCCATGAGGCCTTCTGGGAGCAAGAGCTGCGCCGGGAGCAGGCCCGGGAGCG  
AGAGGGACAGGCACGCCTGCAGGCACTAAGTGCAGGCACTGCTGAGCATGCCGCCGGCTGCAGGCCCTG  
GACGCTCAGGCCCGTGCCTGGAGGCTGAGCTGCAGCTGGCAGCGGAGGCCCTGGGCCCCCTCACCTA  
TGGCATCTGCACTGAGCGCCTGCACCAGGACCTGGCTGTTTCAGGAGCGGAGAGTGCAGGAGTGCAGGG  
CAGCCTGGCTCTGGTGAAGCGGCCCTGGAGGCAGCAGAGCGAGCCTTGCAGGCTCAGGCTCAGGAGCTG  
GAGGAGCTGAACCGAGAGCTCCGTCAGTGCAACCTGCAGCAGTTTCAGCAGACCGGGGCTGCGCTGC  
CACCGCCCCACGGCTGACAGGGGCCCTCTGGCACTCAGGTCGGAGTGGTTCTGGGGGAGGCTGGGA  
GGTGAGGACTGGCCAGCCCCACTCCAAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227985 representing NM\_001143993  
Red=Cloning site Green=Tags(s)

MLLGLAAMELKVWVDGIQRVVCVSEQTTCQEVVIALAQAIGQTGRFVLVQRLREKERQLLPQCEPVGAQ  
 ATCGQFASDVQFVLRRTGPSLAGRPSSDSCPPPERCLIRASLPVKPRAALGCEPRKLTPEPAPSLSRPG  
 PAAPVTPTPGCCTDLRGLLELRVQRNAEELGHEAFWEQELRREQAREREGQARLQALSAATAEHAARLQAL  
 DAQARALEAELQLAAEAPGPPSPMASATERLHQDLAVQERQSAEVQGLALVSRALAAERLQAQAQEL  
 EELNRELRCNLQQFIQQTGAALPPPPRPDRGPPGTQVGVVLGGWEVRTWPSPTPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1281\\_a09.zip](https://cdn.origene.com/chromatograms/ja1281_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001143993

**ORF Size:** 1011 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\\_001143993.2](#)

**RefSeq ORF:** 1014 bp

**Locus ID:** 8045

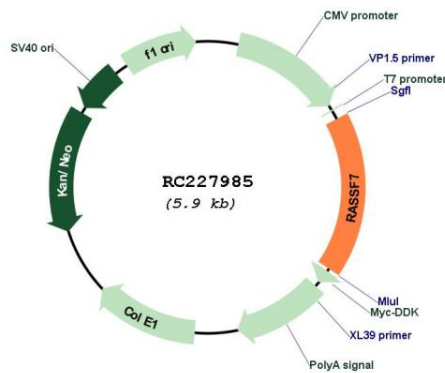
**UniProt ID:** [Q02833](#)

**Cytogenetics:** 11p15.5

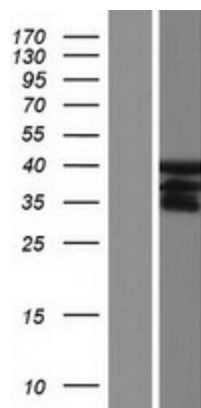
**MW:** 36.2 kDa

**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 RC227985



Western blot validation of overexpression lysate (Cat# [LY428453]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227985 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).