

Product datasheet for **RG212844**

RASSF7 (NM_003475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF7 (NM_003475) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASSF7
Synonyms:	C11orf13; CFAP88; FAP88; HRAS1; HRC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212844 representing NM_003475 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTTGTTGGGACTGGCGCCATGGAGCTGAAGGTGTGGGTGGATGGCATCCAGCGTGTGGTCTGTGGG
TCTCAGAGCAGACCACCTGCCAGGAAGTGGTCATCGCACTAGCCCAAGCAATAGGCCAGACTGGCCGCTT
TGTGCTTGTGCAGCGCTTCGGGAGAAGGAGCGGCAGTTGCTGCCACAAGAGTGTCCAGTGGGCGCCAG
GCCACCTGCGGACAGTTTGCCAGCGATGTCCAGTTTGTCTGAGGCGCACAGGGCCAGCCTAGCTGGGA
GGCCCTCCTCAGACAGCTGTCCACCCCGGAACGCTGCCTAATTCGTGCCAGCCTCCCTGTAAGCCACG
GGCTGCGCTGGGCTGTGAGCCCCGAAAACACTGACCCCGAGCCAGCCCCAGCCTCTCACGCCCTGGG
CCTGCGGGCCCTGTGACCCACACACAGGCTGTGCACAGACCTGCGGGGCTGGAGCTCAGGGTGCAGA
GGAATGCTGAGGAGCTGGGCCATGAGGCCCTTCTGGGAGCAAGAGCTGCGCCGGGAGCAGGCCCGGAGCG
AGAGGGACAGGCACGCCTGCAGGCACTAAGTGCGGCCACTGCTGAGCATGCCGCCGGCTGCAGGCCCTG
GACGCTCAGGCCCGTGCCTGGAGGCTGAGCTGCAGCTGGCAGCGGAGGCCCTGGGCCCCCTCACCTA
TGGCATCTGCACTGAGCGCCTGCACAGGACCTGGCTGTTTCCAGGAGCGGAGTGCAGGAGGTGCAGGG
CAGCCTGGCTCTGGTGAAGCGGGCCCTGGAGGCAGCAGAGCGAGCCTTGCAGGCTCAGGCTCAGGAGCTG
GAGGAGCTGAACGAGAGCTCCGTAGTCAACCTGCAGCAGTTTCCAGCAGACCGGGGCTGCGCTGC
CAGCGCCCCACGCGCTGACAGGGGCCCTCTGGCACTCAGGGCCCTCTGCCTCCAGCCAGAGAGGAGTC
CCTCTGGGCGCTCCCTCTGAGTCCCATGCTGGTGCCAGCCTAGGCCCCAGGTGGCCCCCATGACGCA
GAACTCTGGAGGTAGCAGCAGCTCCTGCCCCAGAGTGGTGTCTCTGGCAGCCAGCCCCAGGCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG212844 representing NM_003475
 Red=Cloning site Green=Tags(s)

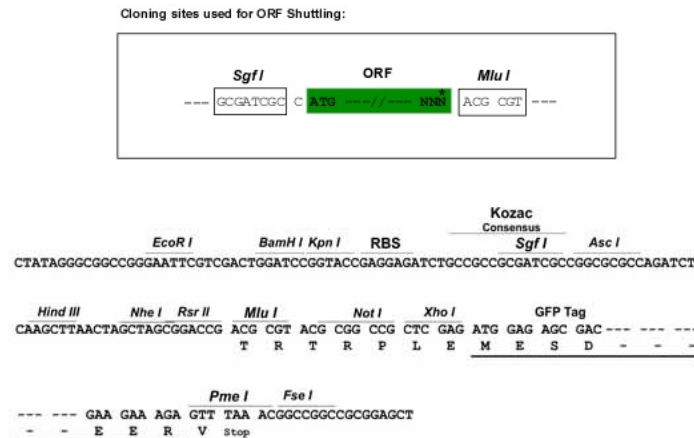
MLLGLAAMELVVDGIQRVVCGVSEQTTCQEVVIALAQAIGQTGRFVLVQRLREKERQLLPQCEPVGAAQ
 ATCGQFASDVQFVLRRTGPSLAGRPSSDSCPPPERCLIRASLPVKPRAALGCEPRKLTPEPAPSLSRPG
 PAAPVTPTPGCCTDLRGLRLVQRNAEELGHEAFWEQELRREQAREREGQARLQALSAATAEHAARLQAL
 DAQARALEAELQLAAEAPGPPSPMASATERLHQDLAVQERQSAEVQGSALVSRALAAERLQAQAQEL
 EELNRELQCNLQQFIQQTGAALPPPPRDRGPPGTQGPLPPAREESLLGAPSESHAGAQP RPGRGPHDA
 ELLEVAAPAEWCPLAAQPQAL

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_003475.4](#)

RefSeq Size: 1539 bp

RefSeq ORF: 1122 bp

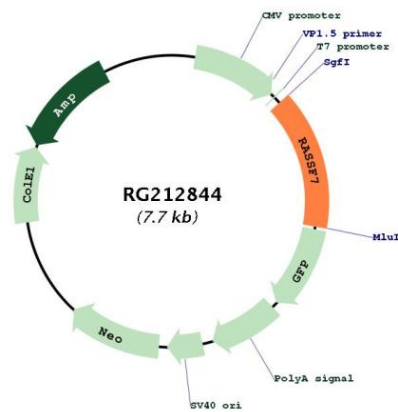
Locus ID: 8045

UniProt ID: [Q02833](#)

Cytogenetics: 11p15.5

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 RG212844