

Product datasheet for **RC207456**

RASSF4 (NM_032023) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF4 (NM_032023) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASSF4
Synonyms:	AD037
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207456 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGAAGACTGTCTGCCGAGTTCTCACGTGCCATCAGTGACAGCAAGTCCATTCAGAAGTCGGAGC
TCTTAGGCCTGCTGAAAACCTACAACCTGCTACCATGAGGGCAAGAGCTTCCAGCTGAGACACCGTGAGGA
AGAAGGGACTCTGATCATCGAGGGGCTCCTCAACATTGCCTGGGGCTGAGGCGGCCATCCGGCTGCAG
ATGCAGGATGACCGGGAGCAGGTGCACCTCCCTCCACCTCATGGATGCCAGACGGCCTAGCTGCCCTC
TAAAGGAGCCATCGCCCAGAACGGGAACATCACAGCCAGGGGCAAGCATTAGCCAGTGCACAAGGC
TGAGAGTTCACAGACAGCTCGGGGCCCTGGAGGAGGCAGAGGAGGCCCCAGCTGATGCGGACCAAG
AGCGACGCCAGTTGCATGAGCCAGAGGAGGCCAAGTGCCGCGCCCCGGTGAGGCCAGCGCATCCGGC
GACACCGGTTCTCTATCAACGGCCACTTCTACAATCATAAGACCTCCGTGTTACTCCAGCCTATGGATC
CGTGACCAATGTGAGGGTCAACAGCACCATGACAACCCTGCAGGTGCTCACCCCTGCTGCTGAACAAATTT
AGGGTGAAGATGGCCCCAGTGAGTTCGCACTCTACATCGTTCACGAGTCTGGGGAGCGGACAAAATTA
AAGACTGCGAGTACCCGCTGATTTCCAGAATCTGCATGGCCATGTGAGAAGATCGCCAGGATCTTCT
GATGGAAGCTGACTTGGGCGTGAAGTCCCCATGAAGTCGTCAGTACATTAAGTTTGAATGCCGGTG
CTGGACAGTTTTGTTGAAAAATTAAGAAGAGGAAGAAAGAGAAATAATCAAACCTGACCATGAAGTTCC
AAGCCCTGCGTCTGACGATGCTGCAGCGCCTGGAGCAGCTGGTGGAGGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207456 protein sequence
Red=Cloning site Green=Tags(s)

MKEDCLPSSHVPISDSKSIQKSELLGLLKTYNCYHEGKSFQLRHREEEGTLIIIEGLLNIAWGLRRPIRLQ
 MQDDREQVHLPSTSWMPRRPSCP LKEPSPQNGNITAQGPSIQPVHKAESSTDSSGPL EEAEEAPQLMRTK
 SDASCMSQRRPKCRAPGEAQRIRRRHRSINGHFYNHKT SVFTPAYGSVTNVRVNSMTTLQVLTLLLNKF
 RVEDGPSEFALYIVHESGERTKLDCEYPLISRILHGPCCKIARIFLMEADLGV EVPHEVAQYIKFEMPV
 LDSFVEKLKEEEEREIIKLTMKFQALRLTMLQRLEQLVEAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6021_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032023

ORF Size: 963 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_032023.4](#)

RefSeq Size: 2509 bp

RefSeq ORF: 966 bp

Locus ID: 83937

UniProt ID: [Q9H2L5](#)

Cytogenetics: 10q11.21

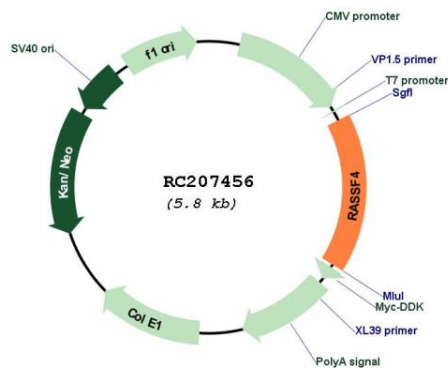
Domains: RA

Protein Families: Druggable Genome

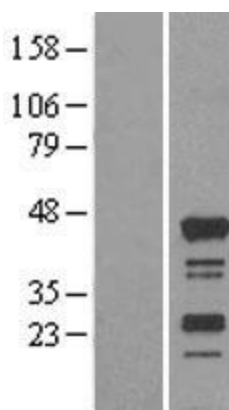
MW: 36.7 kDa

Gene Summary: The function of this gene has not yet been determined but may involve a role in tumor suppression. Alternative splicing of this gene results in several transcript variants; however, most of the variants have not been fully described. [provided by RefSeq, Jul 2008]

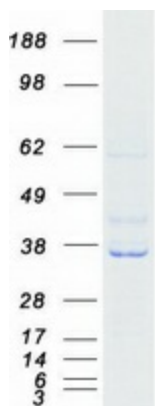
Product images:



Circular map for RC207456



Western blot validation of overexpression lysate (Cat# [LY403139]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207456 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RASSF4 protein (Cat# [TP307456]). The protein was produced from HEK293T cells transfected with RASSF4 cDNA clone (Cat# RC207456) using MegaTran 2.0 (Cat# [TT210002]).