

# **Product datasheet for RC210715**

# RASSF1 (NM 170712) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** RASSF1 (NM\_170712) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: RASSF1

Synonyms: 123F2; NORE2A; RASSF1A; RDA32; REH3P21

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC210715 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAGCTTGAACAAGGACGGTTCTTACACAGGCTTCATCAAGGTTCAGCTGAAGCTGGTGCGCCCTGTCT
CTGTGCCCTCCAGCAAGAAGCCACCCTCCTTGCAGGATGCCCGGCGGGGCCCAGGACGGGGCACAAGTGT
CAGGCGCCCGCACTTCCTTTTACCTGCCCAAGGATGCTGTCAAGCACCTGCATGTGCTGTCACGCACAAGG
GCACGTGAAGTCATTGAGGCCCTGCTGCGAAAGTTCTTGGTGGTGGATGACCCCCGCAAGTTTGCACTCT
TTGAGCGCGCTGAGCGTCACGGCCAAGTGTACTTGCGGAAGCTGTTGGATGATGAGCAGCCCCTGCGGCT
GCGGCTCCTGGCAGGGCCCAGTGACAAGGCCCTGAGCTTTGTCCTGAAGGAAAATGACTCTGGGGAGGTG
AACTGGGACGCCTTCAGCATGCCTGAACTACATAACTTCCTACGTATCCTGCAGCGGGAGGAGGAGGAGC
ACCTCCGCCAGATCCTGCAGAAGTACTCCTATTGCCGCCAGAAGATCCAAGAGGCCCTGCACCCTGCCC

**CCTTGGG** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC210715 protein sequence

Red=Cloning site Green=Tags(s)

MSLNKDGSYTGFIKVQLKLVRPVSVPSSKKPPSLQDARRGPGRGTSVRRRTSFYLPKDAVKHLHVLSRTR AREVIEALLRKFLVVDDPRKFALFERAERHGQVYLRKLLDDEQPLRLRLLAGPSDKALSFVLKENDSGEV

NWDAFSMPELHNFLRILQREEEEHLRQILQKYSYCRQKIQEALHACPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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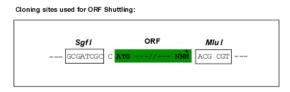
#### RASSF1 (NM\_170712) Human Tagged ORF Clone - RC210715

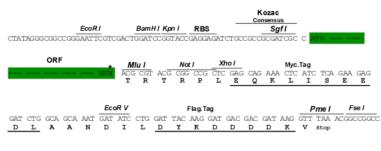
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6679">https://cdn.origene.com/chromatograms/mk6679</a> b06.zip

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_170712

ORF Size: 567 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.

**RefSeg:** NM 170712.3

RefSeq Size: 1676 bp
RefSeq ORF: 570 bp
Locus ID: 11186

### RASSF1 (NM\_170712) Human Tagged ORF Clone - RC210715

UniProt ID: Q9NS23

Cytogenetics: 3p21.31

**Protein Families:** Druggable Genome

**Protein Pathways:** Bladder cancer, Non-small cell lung cancer, Pathways in cancer

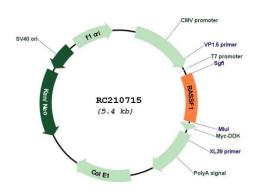
**MW:** 21.9 kDa

**Gene Summary:** This gene encodes a protein similar to the RAS effector proteins. Loss or altered expression of

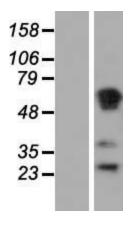
this gene has been associated with the pathogenesis of a variety of cancers, which suggests the tumor suppressor function of this gene. The inactivation of this gene was found to be correlated with the hypermethylation of its CpG-island promoter region. The encoded protein was found to interact with DNA repair protein XPA. The protein was also shown to inhibit the accumulation of cyclin D1, and thus induce cell cycle arrest. Several alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by

RefSeg, May 2011]

## **Product images:**



Circular map for RC210715



Western blot validation of overexpression lysate (Cat# [LY406891]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210715 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).