

Product datasheet for RC212843

RASSF1 (NM_170713) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RASSF1 (NM_170713) 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 >RC212843 representing NM_170713.

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

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGCCCCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT

TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Protein Sequence: >Peptide sequence encoded by RC212843

Blue=ORF Red=Cloning site Green=Tag(s)

MGEAEAPSFEMTWSSTTSSGYCSQEDSDSELEQYFTARTSLARRPRRDQDEPVEWETPDLSQAEIEQKI KEYNAQINSNLFMSLNKDGSYTGFIKVQLKLVRPVSVPSSKKPPSLQDARRGPGRGTSVRRRTSFYLPK DAVKHLHVLSRTRAREVIEALLRKFLVVDDPRKFALFERAERHGQVYLRKLLDDEQPLRLRLLAGPSDK ALSFVLKENDSGEVNWDAFSMPELHNFLRILQREEEEHLRQILQKYSYCRQKIQEALHACPLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3596 a01.zip

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:



CTATAGGGOGGO	cgg	EcoR AATT	_	gact	Bam 'GGAT	HI KI		RB GAGG	_	- CTGC				: c 2	VTG -		
ORF *	AGŌ S	Rs. GGA G			llu I GGT R	ACC T	No CGC R		_	hol GAG E	CAG Q	AA/		.Tag : AT	TCF S	A GAA E	GAG E
GAT CTG GCA D L A	GCA A	AAT N	Ecc GAT D	ATC	CTG L	GAT D		Flag.Ta AAG K	-	GAC D	GAC D	GAT D	AAG K	GTT V	me I TAA stop	ACGG	se / COGGC

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_170713

ORF Size: 810 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).

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Reconstitution Method: 1.0

- 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: <u>NM 170713.3</u>

RefSeq Size: 1825 bp
RefSeq ORF: 813 bp
Locus ID: 11186
UniProt ID: Q9NS23

Cytogenetics: 3p21.31

Domains: RA

Protein Families: Druggable Genome

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

MW: 31.2 kDa

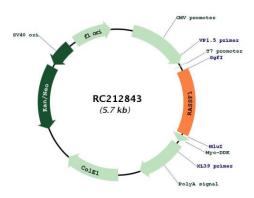
Gene Summary: This gene encodes a protein similar to the RAS effector proteins. Loss or altered expression of

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

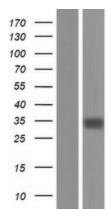
RefSeq, May 2011]



Product images:



Circular map for RC212843



Western blot validation of overexpression lysate (Cat# [LY406892]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212843 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).