

## Product datasheet for **SC313040**

### RASSF1 (NM\_170714) Human Untagged Clone

#### Product data:

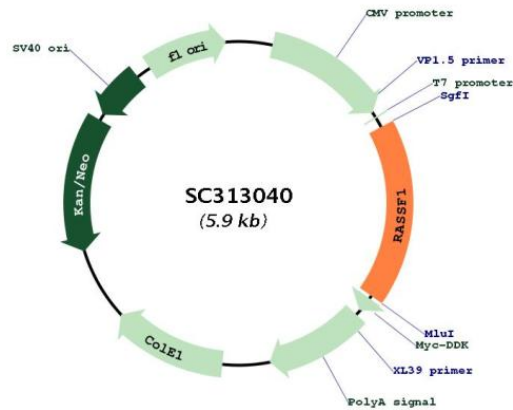
Product Type:	Expression Plasmids
Product Name:	RASSF1 (NM_170714) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASSF1
Synonyms:	123F2; NORE2A; RASSF1A; RDA32; REH3P21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313040 representing NM_170714. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTGGGGGAGCCTGAGCTCATTGAGCTGCGGGAGCTGGCACCCGCTGGGCGCGCTGGGAAGGGCCGC
ACCCGGCTGGAGCGTGCCAACGCGCTGCGCATCGCGGGGGCACCGCTGCAACCCACACGGCAGCTG
GTCCCTGGCCGTGGCCACCGCTCCAGCCCGGGGGCCGCCACGCACACGTGGTGCACCTCTGTGGC
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TGCCACTACCGCTGCCGCGCTCGTCTGCCTGGACTGTTGCGGGCCCCGGGACCTGGGCTGGGAACCC
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GGTTCTTACACAGGCTTCATCAAGGTTAGCTGAAGCTGGTGCAGCCCTGTCTGTGCCCTCCAGCAAG
AAGCCACCTCCTTGAGGATGCCCGGGGGGGCCAGGACGGGGCACAAGTGTGAGGCGCCGCACTTCC
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GAGGCCCTGTGCGAAAGTCTTGGTGGTGGATGACCCCCGCAAGTTGCACTCTTTGAGCGCGCTGAG
CGTCACGGCAAGTGTACTTGGGAAGCTGTTGGATGATGAGCAGCCCTGCGGCTGCGGCTCCTGGCA
GGGCCCAGTGACAAGGCCCTGAGCTTTGCCTGAAGGAAAATGACTCTGGGGAGGTGAAGTGGGACGCC
TTCAGCATGCCTGAACTACATAACTTCTACGTATCCTGCAGCGGGAGGAGGAGGACACCTCCGCCAG
ATCCTGCAGAAGTACTCCTATTGCCGCCAGAAGATCCAAGAGGCCCTGCAGCCTGCCCCCTTGGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_170714

**Insert Size:** 1035 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_170714.1](#)

**RefSeq Size:** 1979 bp

**RefSeq ORF:** 1035 bp

**Locus ID:** 11186

UniProt ID:	<u>Q9NS23</u>
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
Protein Pathways:	Bladder cancer, Non-small cell lung cancer, Pathways in cancer
MW:	39.2 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (D) encodes isoform D, which is one of the two longest isoforms.</p>