

Product datasheet for **SC329866**

RASSF1 (NM_001206957) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RASSF1 (NM_001206957) Human Untagged Clone
Tag: Tag Free
Symbol: RASSF1
Synonyms: 123F2; NORE2A; RASSF1A; RDA32; REH3P21
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329866 representing NM_001206957.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGCTTGAACAAGGACGGTTCTTACACAGGCTTCATCAAGGTCAGCTGAAGCTGGTGCGCCCTGTC
TCTGTGCCCTCCAGCAAGAAGCCACCCTCCTTGCAGGATGCCCGCGGGGCCAGGACGGGGCACAAGT
GTCAGGCGCCGCACTTCCTTTTACCTGCCCAAGGATGCTGTCAAGCACCTGCATGTGCTGTCACGCACA
AGGGCACGTGAAGTCATTGAGGCCCTGCTGCGAAAGTTCTTGGTGGTGGATGACCCCGCAAGTTTGCA
CTCTTTGAGCGCGCTGAGCGTCACGGCCAAGTGTACTTGCAGGAGCTGTTGGATGATGAGCAGCCCTG
CGGCTGCGGCTCCTGGCAGGGCCAGTGACAAGGCCCTGAGCTTTGTCTGAAGGAAAATGACTCTGGG
GAGGTGAACTGGGACGCTTCAGCATGCCTGAACCTACATAACTTCCTACGTATCCTGCAGCGGGAGGAG
GAGGAGCACCTCCGCCAGATCCTGCAGAAGTACTCCTATTGCCGCCAGAAGATCCAAGAGGCCCTGCAC
GCCTGCCCCCTTGGGTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001206957
Insert Size: 570 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).
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. 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_001206957.1

RefSeq Size: 1859 bp

RefSeq ORF: 570 bp

Locus ID: 11186

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 RefSeq, May 2011]

Transcript Variant: This variant (H) lacks an alternate coding exon compared to variant D, that causes a frameshift. The resulting isoform (B) is shorter at the N-terminus compared to isoform D. Variants B and H both encode the same isoform (B).