

Product datasheet for **RC228333**

RASSF8 (NM_001164748) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF8 (NM_001164748) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASSF8
Synonyms:	C12orf2; HOJ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228333 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTAAAGTATGGGTGGATGGAGTTCAGAGGATTGTTTGTGGAGTCACTGAAGTCACAACCTGCC
AGGAGGTTGTCATAGCCTTAGCTCAAGCAATAGGTCGAACTGGAAGGTACACCCTTATAGAGAAATGGAG
AGATACTGAAAGACACTTAGCACCTCATGAAAATCCTATCATATCCTTAAACAAATGGGGCAGTATGCT
AGTGATGTGCAGCTCATTCTACGACGAAGTGGCCGCTCTCTCAGTGAGCGACCCACTTCAGACAGTGTGG
CTCGAATTCCTGAAAGAAGTATACAGGCAGAGTCTGCCCCCTTAGCTAAACTGAGGCCTCAGATTGA
CAAATCAATCAAAAGGAGGGAACCGAAAAGGAAATCACTGACATTTACAGGAGGTGCCAAAGGATTAATG
GACATTTTTGGAAAAGGTAAGAAAAGTAAAGAAAAGTAAAGAAAAGGTTGCTGAATAACTGCAAAACAACAGCAG
ATGAGTTGAAGAAGCTAATCCGTCTGCAGACAGAGAAGCTTCAATCCATTGAGAAACAGCTGGAATCTAA
TGAAATAGAAAAGATTTGGGAGCAAAAGTATAATTCCAACCTTGAAGAGGAAATGTCCGTCTAGAG
CAAAAGATCAAAAGAACGATGTAGAAATGAGGAGGAAGAAATCTGGGAAAATGAATTACAGATTGAAC
AGGAAAATGAAAACAGCTGAAGGATCAACTTCAAGAAAATAGACAGAAAATAACAGAATGTGAAAACAA
ATTAAGGACTATTTGGCACAGATCCGGACTATGGAAAGTGGTCTTGAAGCAGAAAATGCAACGGGAA
GTTCAAGAGGCACAGGTCATGAGGAAGAGGTTAAGGAAAGTAAAGGAAAGTAAAGGTAAGGTCAAAGGGGAGATTGACA
TTCAAGGCCAGCAGAGTCTGAGGTTGGAAAATGGCATCAAAGCTGTGAAAAGATCTCTGGACAAGCCAC
CAAACGCTTACAGGACAAAGAACAGGAAGTGGAGCAGTTGACTAAGGAGTTGCGGCAAGTCAATCTCCAG
CAGTTCATCCAGCAGACAGGGACAAAAGTTACCGTTTTGCGCAGCGGAGCCATTGAAATAGAGGCCTCAC
ATGCAGACATTGAAAGGGAGGCACCATTCAGTCTGGTCCCTGAAGCGACCTGGTTCATCTCGGCAGCT
CCCCAGTAATCTCCGATTCTGCAGAATCTATCTCATCTGGTTTTAATCCTGAAGGCATATATGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC228333 protein sequence
Red=Cloning site Green=Tags(s)

MELKVVWDGVQRIVCGVTEVTTCCQEVVIALAQAIGRTGRYTLIEKWRDTERHLAPHENPIISLNKWGQYA
SDVQLILRRTGPSLSERPTSDSVARIPERTLYRQSLPPLAKLRPQIDKSIKRREPKRKSLTFTGGAKGLM
DIFGKGKETEFKQKVLNCKTTADELKKLIRLQTEKLQSIKQLESNEIEIRFWEQKYNLNLEEEIVRLE
QKIKRNDVEIEEEEFWENELQIEQENKQLKDQLQEIRQKITECENKLDYLAQIRTMESGLEAEKLRQRE
VQEAQVNEEEVKGKIGKVKGEIDIQGGQSLRLENGIKAVERSLGQATKRLQDKEQLEQLTKELRQVNLQ
QFIQQTGKVTVLPAPPIEIEASHADIEREAPFQSGSLKRPGSSRQLPSNLRILQNPISSGFNPEGIYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8058_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001164748

ORF Size: 1257 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_001164748.2](#)

RefSeq Size: 5561 bp

RefSeq ORF: 1260 bp

Locus ID: 11228

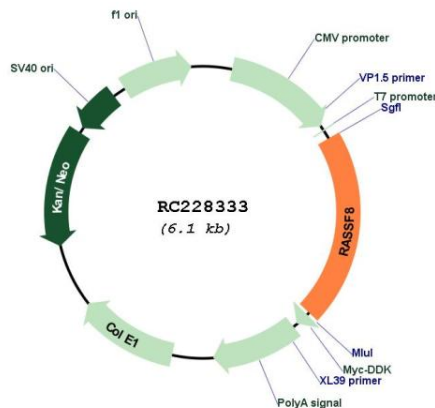
UniProt ID: [Q8NHQ8](#)

Cytogenetics: 12p12.1

MW: 48.3 kDa

Gene Summary: This gene encodes a member of the Ras-association domain family (RASSF) of tumor suppressor proteins. This gene is essential for maintaining adherens junction function in epithelial cells and has a role in epithelial cell migration. It is a lung tumor suppressor gene candidate. A chromosomal translocation t(12;22)(p11.2;q13.3) leading to the fusion of this gene and the FBLN1 gene is found in a complex type of synpolydactyly. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]

Product images:



Circular map for RC228333