

Product datasheet for **RC228332**

RASSF8 (NM_001164747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF8 (NM_001164747) 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:	>RC228332 representing NM_001164747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTAAAGTATGGGTGGATGGAGTTCAGAGGATTGTTTGTGGAGTCACTGAAGTCACAACCTGCC
AGGAGGTTGTATAGCCTTAGCTCAAGCAATAGGTCGAAGTACACCCTTATAGAGAAATGGAG
AGATACTGAAAGACACTTAGCACCTCATGAAAATCCTATCATATCCTTAAACAAATGGGGCAGTATGCT
AGTGATGTGCAGCTCATTCTACGACGAAGTGGCCGCTCTCAGTGAGCGACCCACTTCAGACAGTGTGG
CTCGAATTCCTGAAAGAAGTATACAGGCAGAGTCTGCCCCCTTAGCTAAACTGAGGCCTCAGATTGA
CAAATCAATCAAAAGGAGGGAACCGAAAAGGAAATCACTGACATTTACAGGAGGTGCCAAAGGATTAATG
GACATTTTTGGAAAAGGTAAGAAAAGTAAAGCAAAAGGTGCTGAATAACTGCAAAAACAACAGCAG
ATGAGTTGAAGAAGCTAATCCGTCTGCAGACAGAGAAGCTTCAATCCATTGAGAAACAGCTGGAATCTAA
TGAAATAGAAAATAGATTTTGGGAGCAAAAGTATAATTCACACCTTGAAGAGGAAATGTCCGTCTAGAG
CAAAAGATCAAAAGAACGATGTAGAAATGAGGAGGAAGAAATCTGGGAAAATGAATTACAGATTGAAC
AGGAAAATGAAAACAGCTGAAGGATCAACTTCAAGAAAATAGACAGAAAATAACAGAATGTGAAAACAA
ATTAAGGACTATTTGGCACAGATCCGGACTATGGAAAGTGGTCTTGAAGCAGAAAATGCAACGGGAA
GTTCAAGAGGCACAGGTCAATGAGGAAGAGGTTAAGGAAAGTTCGGTAAGGTCAAAGGGGAGATTGACA
TTCAAGGCCAGCAGAGTCTGAGGTTGGAAAATGGCATCAAAGCTGTGAAAAGATCTCTGGACAAGCCAC
CAAACGCTTACAGGACAAAGAACAGGAAGTGGAGCAGTTGACTAAGGAGTTGCGGCAAGTCAATCTCCAG
CAGTTCATCCAGCAGACAGGGACAAAAGTTACCGTTTTGCCAGCGGAGCCATTGAAATAGAGGCCTCAC
ATGCAGACATTGAAAGGGAGGCACCATTCAGTCTGGTCCCTGAAGCGACCTGGTTTCATCTCGGCAGCT
CCCCAGTAATCTCCGATTCTGCAGAATCTATCTCATCTGGTTTTAATCCTGAAGGCATATATGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228332 representing NM_001164747
Red=Cloning site Green=Tags(s)

MELKVVWDGVQRIVCGVTEVTTCCQEVVIALAQAIGRTGRYTLIEKWRDTERHLAPHENPIISLNKYGQYA
SDVQLILRRTGPSLSERPTSDSVARIPERTLYRQSLPPLAKLRPQIDKSIKRREPKRKSLTFTGGAKGLM
DIFGKGKETEFGKQKVLNNCKTTADELKKLIRLQTEKLQSIKQLESNEIEIRFWEQKYNLNLEEEIVRLE
QKIKRNDVEIEEEEFWENELQIEQENKQLKDQLQEIRQKITECENKLDYLAQIRTMSGLEAEKLRQRE
VQEAQVNEEEVKGKIGKVKGEIDIQGQQLRLENGIKAVERSLGQATKRLQDKEQLEQLTKELRQVNLQ
QFIQQTGKVTVLPAPPIEIEASHADIEREAPFQSGSLKRPSSRQLPSNLRILQNPISSGFNPEGIYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164747

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_001164747.2](#)

RefSeq Size: 5627 bp

RefSeq ORF: 1260 bp

Locus ID: 11228

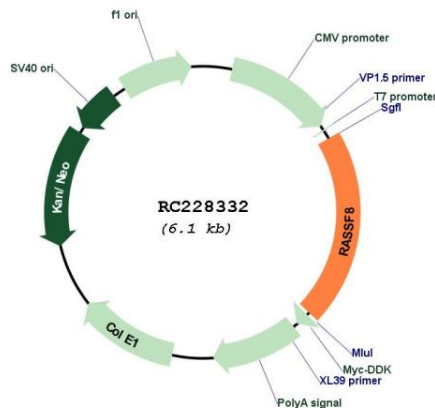
UniProt ID: [Q8NHQ8](#)

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 RC228332