

Product datasheet for **RG206104**

RASSF8 (NM_007211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF8 (NM_007211) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASSF8
Synonyms:	C12orf2; HOJ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206104 representing NM_007211 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTAAAGTATGGGTGGATGGAGTTCAGAGGATTGTTTGTGGAGTCACTGAAGTCACAACCTGCC
AGGAGGTTGTCTAGCCTTAGCTCAAGCAATAGGTGCAACTGGAAGGTACACCCTTATAGAGAAATGGAG
AGATACTGAAAGACACTTAGCACCTCATGAAAATCCTATCATATCCTTAAACAAATGGGGCAGTATGCT
AGTGATGTCAGCTCATTCTACGACGAAGTGGCCGCTCTCTCAGTGAGCGACCCACTTCAGACAGTGTGG
CTCGAATTCCTGAAAGAAGTTTATACAGGCAGAGTCTGCCCCCTTAGCTAAACTGAGGCCTCAGATTGA
CAAATCAATCAAAAGGAGGGAACCGAAAAGGAAATCACTGACATTTACAGGAGGTGCCAAAGGATTAATG
GACATTTTTGAAAAGGTAAAGAAAAGTGAATTTAAGCAAAAGGTGCTGAATAACTGCAAAAACAACAGCAG
ATGAGTTGAAGAAGCTAATCCGTCTGCAGACAGAGAAGCTTCAATCCATTGAGAAACAGCTGGAATCTAA
TGAAATAGAAAAGATTTTGGGAGCAAAAAGTATAATTCACACCTTGAAGAGGAAATGTCCGTCTAGAG
CAAAAGATCAAAAGAACGATGTAGAAATTGAGGAGGAAGAAATCTGGGAAAATGAATTACAGATTGAAC
AGGAAAATGAAAACAGCTGAAGGATCAACTTCAAGAAAATAGACAGAAAATAACAGAATGTGAAAACAA
ATTAAGGACTATTTGGCACAGATCCGGACTATGGAAAGTGGTCTTGAAGCAGAAAATGCAACGGGAA
GTTCAAGAGGCACAGGTCAATGAGGAAGAGTTAAAGGAAAGTTCGGTAAGGTCAAAGGGGAGATTGACA
TTCAAGGCCAGCAGAGTCTGAGGTTGGAAAATGGCATCAAAGCTGTGAAAAGATCTCTGGACAAGCCAC
CAAACGCTTACAGGACAAAGAACAGGAAGTGGAGCAGTTGACTAAGGAGTTGCGGCAAGTCAATCTCCAG
CAGTTTATCCAGCAGACAGGGACAAAAGTTACCGTTTTGCGCAGCGGAGCCATTGAAATAGAGGCCTCAC
ATGCAGACATTGAAAGGGGGATCATCATTCTTTCTGATAAGCAGGAGTGTAAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206104 representing NM_007211
Red=Cloning site Green=Tags(s)

MELKVVVDGVRIVCGVTEVTTTCQEVVIALAQAIGRTGRYTLIEKWRDTERHLAPHENPIISLNKWGQYA
SDVQLILRRTGPSLSERPTSDSVARIPERTLYRQSLPPLAKLRPQIDKSIKRREPKRKSLTFTGGAKGLM
DIFGKGKETEFKQKVLNNCKTTADELKKLIRLQTEKLQSIKQLESNEIEIRFWEQKYNLNLEEEIVRLE
QKIKRNDVEIEEEEFWENELQIEQENKQLKDQLQEIRQKITECENKLDYLAQIRTMESGLEAEKLRQRE
VQEAQVNEEEVKGIKVKGEIDIQGGQSLRLENGIKAVERSLGQATKRLQDKEQLEQLTKELRQVNLQ
QFIQQTGKVTVLPAPPIEIEASHADIERGIIILSDKQECKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007211

ORF Size: 1176 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_007211.5](#)

RefSeq Size: 2337 bp

RefSeq ORF: 1179 bp

Locus ID: 11228

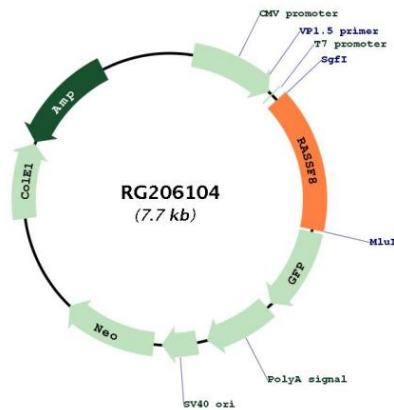
UniProt ID: [Q8NHQ8](#)

Cytogenetics: 12p12.1

Domains: RA

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 RG206104