

Product datasheet for **RG228333**

RASSF8 (NM_001164748) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF8 (NM_001164748) 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:	>RG228333 representing NM_001164748 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTAAAGTATGGGTGGATGGAGTTCAGAGGATTGTTTGTGGAGTCACTGAAGTCACAACCTGCC
AGGAGGTTGTCTAGCCTTAGCTCAAGCAATAGGTCGAAGTACACCCTTATAGAGAAATGGAG
AGATACTGAAAGACACTTAGCACCTCATGAAAATCCTATCATATCCTTAAACAAATGGGGCAGTATGCT
AGTGATGTGCAGCTCATTCTACGACGAAGTGGCCGCTCTCTCAGTGAGCGACCCACTTCAGACAGTGTGG
CTCGAATTCCTGAAAGAAGTTTATACAGGCAGAGTCTGCCCCCTTAGCTAAACTGAGGCCTCAGATTGA
CAAATCAATCAAAGGAGGGAACCGAAAAGGAAATCACTGACATTTACAGGAGGTGCCAAAGGATTAATG
GACATTTTTGGAAAAGGTAAGAAAAGTGAAGTAAAGCAAAAGGTGCTGAATAACTGCAAAAACAACAGCAG
ATGAGTTGAAGAAGCTAATCCGTCTGCAGACAGAGAAGCTTCAATCCATTGAGAAACAGCTGGAATCTAA
TGAAATAGAAAAGATTTGGGAGCAAAAGTATAATTCACACCTTGAAGAGGAAATGTCCGTCTAGAG
CAAAAGATCAAAGAAACGATGTAGAAATGAGGAGGAAGAAATCTGGGAAAATGAATTACAGATTGAAC
AGGAAAATGAAAACAGCTGAAGGATCACTTCAAGAAAATAGACAGAAAATAACAGAATGTGAAAACAA
ATTAAGGACTATTTGGCACAGATCCGGACTATGGAAAGTGGTCTTGAAGCAGAAAATGCAACGGGAA
GTTCAAGAGGCACAGGTCAATGAGGAAGAGTTAAGGAAAGTGGTAAAGGTAAGGTCAAAGGGGAGATTGACA
TTCAAGGCCAGCAGAGTCTGAGGTTGGAAAATGGCATCAAAGCTGTGAAAAGATCTCTGGACAAGCCAC
CAAACGCTTACAGGACAAAGAACAGGAAGTGGAGCAGTTGACTAAGGAGTTGCGGCAAGTCAATCTCCAG
CAGTTTATCCAGCAGACAGGGACAAAAGTTACCGTTTTGCGCAGCGGAGCCATTGAAATAGAGGCCTCAC
ATGCAGACATTGAAAGGGAGGCACCATTCAGTCTGGTCCCTGAAGCGACCTGGTTTATCTCGGCAGCT
CCCCAGTAATCTCCGATTCTGCAGAATCTATCTCATCTGGTTTTAATCCTGAAGGCATATATGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228333 representing NM_001164748
 Red=Cloning site Green=Tags(s)

MELKVVVDGVQRIVCGVTEVTTTCQEVVIALAQAIGRTGRYTLIEKWRDTERHLAPHENPIISLNKWGQYA
 SDVQLILRRTGPSLSERPTS DSVARIPERTLYRQSLPPLAKLRPQIDKSIKRREPKRKSLTFTGGAKGLM
 DIFGKGKETEFKQKVLNNCKTTADELKKLIRLQTEKLQSIKQLESNEIEIRFWEQKYNLSLEEEIVRLE
 QKIKRNDVEIEEEEFWENELQIEQENKQLKDQLQEIRQKITECENKLDYLAQIRTMESGLEAEKLRQ
 VQEAQVNEEEVKGIKVKGEIDIQGQQLRLENGIKAVERSLGQATKRLQDKEQELEQLTKELRQVNLQ
 QFIQQTGKVTVLPAPPIEIEASHADIEREAPFQSGSLKRPSSRQLPSNLRILQNPISSGFNPEGIYY

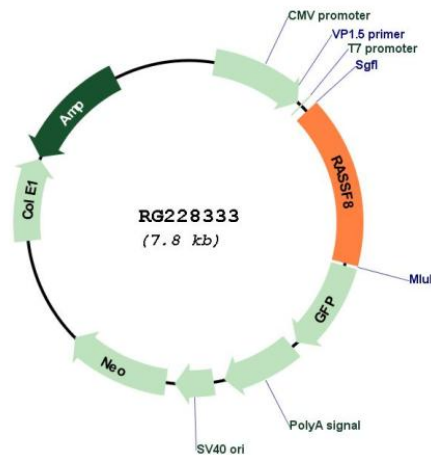
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]