

Product datasheet for RC216299

RASSF2 (NM_014737) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASSF2 (NM_014737) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASSF2
Synonyms:	CENP-34; RASFADIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216299 representing NM_014737 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACTACAGCCACCAAACGTCCTAGTCCCATGTGGACAAGATAAATACATTTCCAAAAATGAACTTC
 TCTTGCACTCTGAAGACCTACAATTGTACTATGAAGGCCAGAATTTACAGCTCCGGCACCAGGAGGAAGA
 AGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCTGGGGCTGCGCCGGCCATTGCGCTGCAGATG
 CAGGATGACAACGAACGCATTGACCCCTCCATCCTCCTCCTGCGACTCTGGCTGTAACTGGGGG
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 GGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGAGGACACCCACAGCTG
 ATGCGCACACGCAGTGATGTTGGGTGCGTCGCGGTGGCAATGTGAGGACGCCTAGTGACCAGCGCGGAA
 TCAGACGCCACCGCTTCTCCATCAACGGCCATTCTACAACCATTAAGACATCCGTGTTACACACGCGCTA
 TGGCTCTGTCAACCAACGTCGCTCAACAGCACCATGACCACCCACAGGTCTGAAGCTGCTGCTCAAC
 AAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTTGACGTGGTCCATACGAGTGGTGAGAAACAGA
 AGCTGAAGGCCACCGATTACCGCTGATTGCCGAATCCTCCAGGGCCATGTGAGCAGATCTCCAAAGT
 GTTCCTAATGGAGAAGGACAGGTGGAGGAAGTCACTACGACGTGGCCAGTATATAAAGTTCGAGATG
 CCGGTACTTAAAGCTTCATTAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCA
 AGTACACCGTGCTCCGGCTAATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC216299 representing NM_014737
 Red=Cloning site Green=Tags(s)

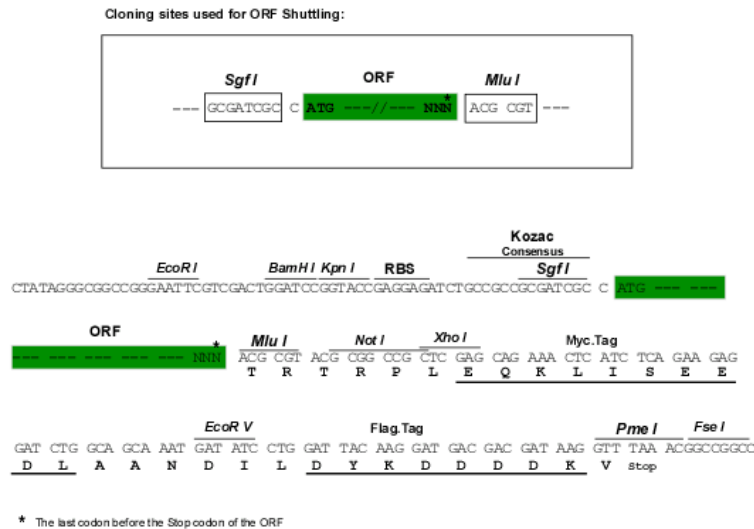
MDYSHQTSLVPCGQDKYISKNEILLHLKTYNLYYEQNLQLRHREEDEFIVEGLLNISWGLRRPIRLQM
 QDDNERIRPPSSSSWHSGCNLGAQGTTKPLTPVKVQISEVDAPPEGDQMPSSSDSRGLKPLQEDTPQL
 MRTRSDVGVRNRGNVTPSDQRRIRRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLN
 KFKIENSAEEFALYVVHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEM
 PVLKSF IQKLQEEEDREVKKLMRKYTTLRLMIRQLLEEIAETPATI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6610_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014737

ORF Size: 978 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014737.3](#)

RefSeq Size: 5426 bp

RefSeq ORF: 981 bp

Locus ID: 9770

UniProt ID: [P50749](#)

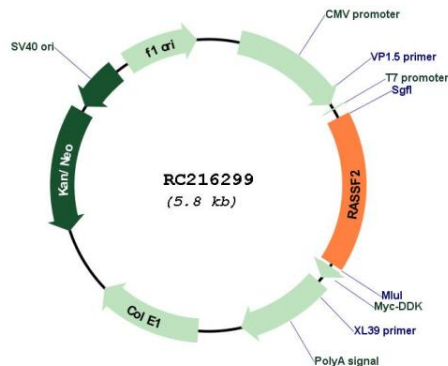
Cytogenetics: 20p13

Domains: RA

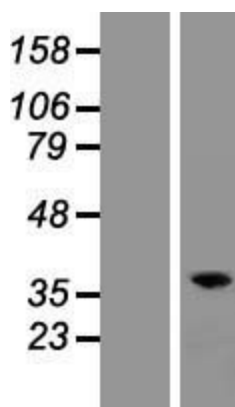
MW: 37.6 kDa

Gene Summary: This gene encodes a protein that contains a Ras association domain. Similar to its cattle and sheep counterparts, this gene is located near the prion gene. Two alternatively spliced transcripts encoding the same isoform have been reported. [provided by RefSeq, Jul 2008]

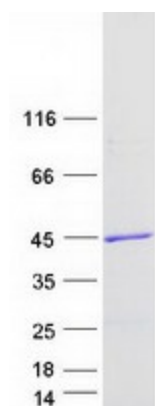
Product images:



Circular map for RC216299



Western blot validation of overexpression lysate (Cat# [LY406875]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC217404] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RASSF2 protein (Cat# [TP316299]). The protein was produced from HEK293T cells transfected with RASSF2 cDNA clone (Cat# RC216299) using MegaTran 2.0 (Cat# [TT210002]).