

## Product datasheet for **RG216299**

### **RASSF2 (NM\_014737) Human Tagged ORF Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | RASSF2 (NM_014737) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | RASSF2  |
| Synonyms:                 | CENP-34; RASFADIN   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG216299 representing NM_014737<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTACAGCCACCAAACGTCCTAGTCCCATGTGGACAAGATAAATACATTTCCAAAAATGAACTTC  
TCTTGCACTGAAGACCTACAACCTGTACTATGAAGGCCAGAATTTACAGCTCCGGCACCAGGAGGAAGA  
AGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCTGGGGCCTGCGCCGGCCATTGCGCTGCAGATG  
CAGGATGACAACGAACGCATTCGACCCCTCCATCCTCCTCCTGCACTCTGGCTGTAACTGGGG  
CTCAGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTCAGAGGTGGATGCCCGCCGGA  
GGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGCCTGAAGCCCTGCAGGAGGACACCCACAGCTG  
ATGCGCACACGCAGTGATGTTGGGTGCGTCGCGTGGCAATGTGAGGACGCCTAGTGACCAGCGCGGAA  
TCAGAGCCACCGCTTCTCCATCAACGGCCATTCTACAACCATAAAGACATCCGTGTTACACACGACCTA  
TGGCTCTGTACCAACGTCGCAATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAAC  
AAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTTGTACGTGGTCCATACGAGTGGTGAAGAAACA  
AGCTGAAGGCCACCGATTACCCGCTGATTGCCGAATCCTCAGGGCCATGTGAGCAGATCTCAAAGT  
GTTCTAATGGAGAAGGACCAGGTGGAGGAAGTCACTACGACGTGGCCAGTATATAAAGTTCGAGATG  
CCGGTACTTAAAAGCTTCATTAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCA  
AGTACACCGTGTCCGGTAATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216299 representing NM\_014737  
 Red=Cloning site Green=Tags(s)

MDYSHQTSLVPCGQDKYISKNELLLHLKTYNLYYEQNLQLRHREEEDEFIVEGLLNI SWGLRRP IRLQM  
 QDDNERIRPPSSSSWHSGCNLGAQGTTKPLTPVKVQISEVDAPPEGDQMPSSSTDSRGLKPLQEDTPQL  
 MRTRSDVGVRRRGNVVRTPSDQRRIRRRHRFSINGHFYNHKT SVFTPAYGSVTNVRINSTMTTPQVLKLLLN  
 KFKIENSAEEFALYVVHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEM  
 PVLKSF IQKLQEEEDREVKKLMRKYTVLRLMIRQRLLEEIAETPATI

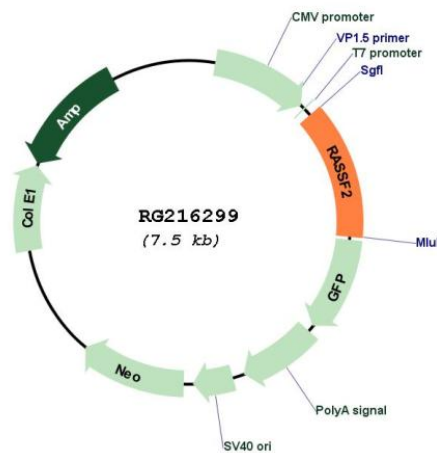
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_014737

**ORF Size:** 978 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_014737.3</a>   |
| <b>RefSeq Size:</b>           | 5426 bp   |
| <b>RefSeq ORF:</b>            | 981 bp  |
| <b>Locus ID:</b>              | 9770  |
| <b>UniProt ID:</b>            | <a href="#">P50749</a>  |
| <b>Cytogenetics:</b>          | 20p13   |
| <b>Domains:</b>               | RA  |
| <b>Gene Summary:</b>          | 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]  |