

## Product datasheet for **RG234812**

### **RNF22 (TRIM3) (NM\_001248006) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | RNF22 (TRIM3) (NM_001248006) Human Tagged ORF Clone |
| Tag:                      | TurboGFP  |
| Symbol:                   | TRIM3   |
| Synonyms:                 | BERP; HAC1; RNF22; RNF97                            |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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ORF Nucleotide  
Sequence:

>RG234812 representing NM\_001248006  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAAAGAGGGAGGACAGCCCTGGCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTGGTATGCAGCA  
TCTGCCTGGATCGGTACCAAGTTCCTTCCCTTGCTGCACACCTTCTGTGAGAGATGTCTCCA  
AAACTATATCCCTGCCAGAGCCTGACGCTATCCTGTCCAGTATGCCGGCAGACGTCCATCCTCCCAGAG  
CAGGGCGTCTCGGCACTGCAGAACAACTTCTTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTG  
ATGGGGCCACGACCCGGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCTGCCCAA  
CCATGAAGGCAAGACGATGGAGTTTTACTGTGAGGCTGTGAGACGGCCATGTGTGGTGTGAGTCCCGGCC  
GGGAGCATCGTGTGAGTGGCAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAGGCGGCCCTGCAGC  
GCCAGCTCGAGGCTGTGCTGAGGATTGCCACAGCTGTCCGAGCAATTGCCTTAGTCGGGGGCATCAG  
CCAGCAGCTGCAGGAGCGCAAGGCAGAGCCCTGGCCAGATCAGTGCAGCGTTCGAGGACCTGGAGCAA  
GCACTGCAGCAGCGCAAGCAGGCTCTGGTCAGCGACCTGGAGACATTTGTGGGGCCAAACAGAAGGTGT  
TGCAAAGCCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCA  
GGCACTGCGCCTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAAGCAGTGCAGAGCGGCTGGTGC  
TTGGCGGCACAGGCCCTCCCGGAGCGGCCACATGAGAAATGCACAGCTGGAAGTGGTCTTGGAGTGGACG  
GTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGC  
CACGGGAGAGGGCTGCGCCAGGCGCTAGTGGCCAGCCTGCCTCGTCACTGTCACTACCAAAGACAAG  
GACGGGCGGTTGGTGCAGCAGGCGCTGAGCTGCGTGCAGAGATCACCGCCCGGACGGCACGGCCG  
TTCCGGTGCCAGTGGTGGACCAAGAATGGCACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGA  
GCTGCTCCTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCCGGTGCGTGCCTGCGT  
CCGGGGGACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGCCCGGACGCC  
ATGTGCGCCAGAAGGCAAGTGCAGTGGCCAGCTCCATGTACAGCAGAGCGGCAACGAAAGGACAACCC  
AATTGAGGATGAGCTCGTCTTCCGTGTTGGCAGTGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAA  
GGTGTGTCAGCAGCCAGCAGCGGCCGATCGTGGTAGCAGACAGCAACAACCAAGTGTATTCAGGTTTTCT  
CCAATGAGGGCCAGTTCAGTTCCTGTTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCAC  
AGGTGTGGCAGTGGACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTGGGTGAGCATCTTC  
TCCCTGAGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAG  
ACCGGAATGGACATATCATTGTGGTGCAGAACAAAGTCTTGTGCTGCTTTACCTCCAGCCCAATGGCAA  
ACTGTTGGCCGTTTTGGGGCCGTGGGGCCACTGACCGCCACTTTGCAGGGCCCAATTTGTGGTGTG  
AACAAAGAAGTGAATGTAGTAACGGACTTCCATAACCAATTCAGTGAAGGTGTACAGTCCGATGGAG  
AGTTCTCTTCAAGTTGGCTCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGCTGT  
GGACTCCAATGGAACATCATTGTGGCTGACTGGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGC  
TCCTTCTGTCTATATCAACACATCTGCAGAACCACTGTATGGTCCACAGGGCCTGGCACTGACCTCGG  
ATGGCCATGTGGTGGTGGCTGATGCTGGCAACCACTGCTTAAAGCCTATCGCTACCTCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234812 representing NM\_001248006  
 Red=Cloning site Green=Tags(s)

MAKREDSPGPEVQPMKQFLVCSICLDRYQCPKVL PCLHTFCERCLQNYIPAQSL TLSCPVCRQTSILPE  
 QGVSALQNNFF ISSLMEAMQQAPDGAHDPEDPHPL SVVAGRPL SCPNHEGKTM EFYCEACETAMCGECRA  
 GEHREHGTVLL RDVVEQHKAAALQRQLEAVRGRLPQL SAAIALVGGISQQLQERKAEALAQI SAAFEDLEQ  
 ALQQRKQALVSDLETICGAKQKVLQSQDLTLRQGQEHIGSSCSFAEQALRLGSAPEVLL VRKHMRLERLAA  
 LAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDK  
 DGRLVRTGSAELRAEITGPDGTRL PVPVVDHKNGTYEL VYTARTEGELLSVLL YGQPVRGSPFRVRALR  
 PGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIEDELVFRVGSRGREKGEFTNLQ  
 GVSAASSGRIVVADSNNQIQVFSNEGQFKFRFGVGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIF  
 SPEGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVTFQPNGKLVGRFGGRGATDRHFAGPHFVAV  
 NNKNEIVVTFDHNHNSVKVVSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIIVADWGNRIQVFDSSG  
 SFLSYINTSAEPLYGPQGLALTSDGHVVADAGNHCFKAYRYLQ

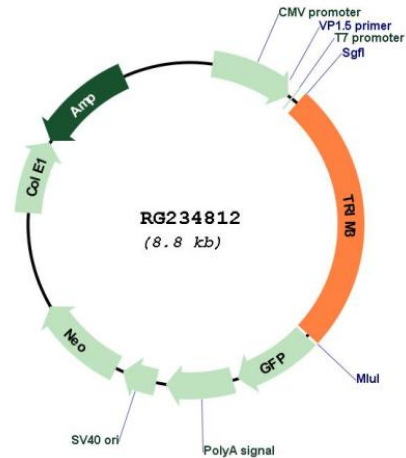
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001248006

**ORF Size:** 2232 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\\_001248006.1](#), [NP\\_001234935.1](#)

**RefSeq Size:** 3067 bp

**RefSeq ORF:** 2235 bp

**Locus ID:** 10612

UniProt ID: [O75382](#)

Cytogenetics: 11p15.4

**Gene Summary:** The protein encoded by this gene is a member of the tripartite motif (TRIM) family, also called the 'RING-B-box-coiled-coil' (RBCC) subgroup of RING finger proteins. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein localizes to cytoplasmic filaments. It is similar to a rat protein which is a specific partner for the tail domain of myosin V, a class of myosins which are involved in the targeted transport of organelles. The rat protein can also interact with alpha-actinin-4. Thus it is suggested that this human protein may play a role in myosin V-mediated cargo transport. Alternatively spliced transcript variants encoding the same isoform have been identified. [provided by RefSeq, Jul 2008]