

## Product datasheet for **RG234595**

### **RNF22 (TRIM3) (NM\_001248007) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RNF22 (TRIM3) (NM_001248007) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RNF22
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:**

>RG234595 representing NM\_001248007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGACGATGGAGTTTTACTGTGAGGCCTGTGAGACGGCCATGTGTGGTGAAGTCCCGCCGGGGAGC  
 ATCGTGAGCATGGCACAGTGCTGCTGAGGGATGTGGTGGAGCAGCACAAGGCGGCCCTGCAGCGCCAGCT  
 CGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCCGACGCAATTGCCTTAGTCGGGGGCATCAGCCAGCAG  
 CTGCAGGAGCGCAAGGCAGAGGCCCTGGCCAGATCAGTGCAGCGTTCGAGGACCTGGAGCAAGCACTGC  
 AGCAGCGCAAGCAGGCTCTGGTCAGCGACTGGAGACATTTGTGGGGCCAAACAGAAGGTGTTGCAAAAG  
 CCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTAGCTGCAGCTTTGCAGAGCAGGCACTG  
 CGCTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAGCAGTGCAGAGCGGCTGGCTGCATTGGCGG  
 CACAGGCTTCCCGGAGCGGCCACATGAGAATGCACAGCTGGAAGTGGTCTTGAAGTGGACGGTCTGCC  
 GCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGCCACGGGA  
 GAGGGCTGCGCCAGGCGCTAGTGGGCCAGCCTGCCTCGCTCACTGTCACTACCAAAGACAAGGACGGGC  
 GTTGGTGCACAGGCAGCGCTGAGCTGCGTGCAGAGATCACCGGCCGGACGGCACCGCCCTCCGGT  
 GCCAGTGGTGGACCACAAGAATGGCACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGAGCTGCTC  
 CTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCGCGTGCCTGCCCTCGCTCCGGGG  
 ACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCTGGCGGCCCGGCAGCCATGTGCC  
 CCAGAAGCAGTGCAGTGGCCAGCTCCATGTACAGCACAGGCGGCAACGAAAGGACAACCAATTGAG  
 GATGAGCTCGTCTCCGTGTTGGCAGTGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAAGGTGTGT  
 CCGCAGCCAGCAGCGGCCGATCGTGGTAGCAGACAGCAACAACCAAGTGTATTGAGTCTTCTCCAATGA  
 GGGCCAGTTCAGTTCCTGTTGGGGTCCGAGGACGCTCACCTGGGACGCTGCAGCGCCACAGGTGTG  
 GCAGTGGACACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTCTCCCTG  
 AGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAGACCGGAA  
 TGGACATATCATTGTGGTGCACAACAAGTCTTGTGCGTCTTTACCTTCCAGCCCAATGGCAAAGTGGT  
 GGCCGTTTTGGGGCCGTGGGGCCACTGACCGCCACTTTCAGGGCCCCATTTTGTGGCTGTGAACAACA  
 AGAATGAAATTGTAGTACGGACTTCCATAACCATTCAGTGAAGGTGTACAGTCCGATGGAGAGTCTCT  
 CTTCAAGTTTGGCTCCCATGGCAGGGCAATGGCAGTTCATGCCCCACAGGAGTAGCTGTGGACTCC  
 AATGGAACATCATTGTGGCTGACTGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGCTCCTTCC  
 TGTCTATATCAACACATCTGCAGAACCACTGTATGGTCCACAGGCGCTGGCACTGACCTCGGATGGCCA  
 TGTGGTGGTGGCTGATGCTGGCAACCACTGCTTTAAAGCCTATCGCTACCTCCAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234595 representing NM\_001248007  
 Red=Cloning site Green=Tags(s)

MKTMEFYCEACETAMCGECRAGEHREHGTVLLRDVVEQHKAAALQRQLEAVRGRPLQLSAAIALVGGISQQ  
 LQERKAEALAQISAAFEDLEQALQQRKQALVSDLETICGAKQKVLQSQLDTRLRQGGQEHIGSSCSFAEQAL  
 RLGSAPEVLLVRKHMRLAALAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATG  
 EGLRQALVGQPASLTVTTKDKDGRVVRTGSAELRAEITGPDGTRLVPPVVDHKNGTIELVYARTEGELL  
 LSVLLYGPVVRGSPFRVRLRPGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKNPIE  
 DELVFRVGRGREKGEFTNLQGVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVGRSPGQLQRPTGV  
 AVDTNGDIIVADYDNRWVSIFSPGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVFTFQPNGKLV  
 GRFGGRGATDRHFAGPHFVAVNNKNEIVVDFHNHVKVYSADGEFLFKFGSHGEGNGQFNAPTGVAVDS  
 NGNIIVADWGNRIQVFDSSGSFLSYINTSAEPLYGPQGLALTSDGHVVVADAGNHCFKAYRYLQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001248007

**ORF Size:** 1875 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\\_001248007.1](#), [NP\\_001234936.1](#)

**RefSeq Size:** 2730 bp

**RefSeq ORF:** 1878 bp

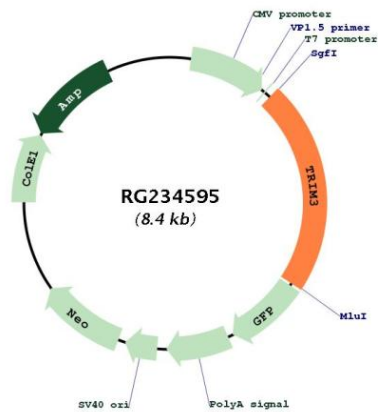
**Locus ID:** 10612

**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]

### Product images:



Circular map for RG234595