

Product datasheet for **SC127687**

RNF22 (TRIM3) (NM_033278) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | RNF22 (TRIM3) (NM_033278) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RNF22 |
| Synonyms: | BERP; HAC1; RNF22; RNF97 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_033278, the custom clone sequence may differ by one or more nucleotides

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ATGGCAAAGAGGGAGGACAGCCCTGGCCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTGGTATGCAGCA
TCTGCCTGGATCGGTACCAAGTTCCTTCTGCCTGCACACCTTCTGTGAGAGATGTCTCCA
AAACTATATCCCTGCCAGAGCCTGACGCTATCCTGTCCAGTATGCCGGCAGACGTCATCCTCCCAGAG
CAGGGCGTCTCGGCACTGCAGAACAACCTTTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTG
ATGGGGCCACGACCCGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTGCCCCAA
CCATGAAGGCAAGACGATGGAGTTTACTGTGAGGCCTGTGAGACGGCCATGTGTGGTGTAGTCCCGCC
GGGAGCATCGTGTGAGTGGCACAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAGGGCCCTGCAGC
GCCAGCTCGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCCGACGCAATTGCCTTAGTCGGGGCATCAG
CCAGCAGCTGCAGGAGCAGGCAAGGCAGAGGCCCTGGCCAGATCAGTGCAGCGTTCGAGGACCTGGAGCAA
GCACTGCAGCAGCGCAAGCAGGCTCTGGTCAAGCAGCTGGAGACCAATTTGTGGGGCCAAACAGAAGGTGT
TGCAAAGCCAGCTGGACACACTGCGCCAGGGTCAGGAACACATCGGCAGTGTGAGCTGTGAGCTTGCAGAGCA
GGCACTGCGCCTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAGCAGTGCAGAGCGGCTGGCTGCA
TTGGCGGCACAGGCCCTCCCGGAGCGGCCACATGAGAATGCACAGCTGGAAGTGGTCTTGGAGTGGACG
GTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCCACTGCACACGAAACGGTGGC
CACGGGAGAGGGCCTGCGCCAGGCGCTAGTGGGCCAGCCTGCCTCGTCACTGTCACTACCAAGACAAG
GACGGGCGGTGGTGGCACAGGCGCGTGTGAGCTGCGTGCAGAGATCACCGGCCGACGGCACGCGCC
TTCCGGTGCCAGTGGTGGACCACAAGAATGGCACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGA
GCTGCTCTCTCGGTGCTGCTCTACGGACAGCCAGTGCAGCGCAGCCCTTCCCGGTGCGTGGCCGCGT
CCGGGGACCTGCCACCTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCTGGCGGGCCCGGCAGCC
ATGTGCGCCAGAAGGCAGTGCAGTGGCCAGCTCCATGTACAGCACAGGCGGCAACGAAAGGACAACCC
AATTGAGGATGAGCTCGTCTTCCGTGTTGGCAGTGTGGAAGGGAGAAAGGTGAATTCACCAATTTACAA
GGTGTGTCGCGCAGCCAGCAGCGCCGATCGTGGTAGCAGACAGCAACAACCAAGTGTATTAGGTTTTCT
CCAATGAGGGCCAGTTCAAGTCCGTTTTGGGGTCCGAGGACGCTCACCTGGGCAGCTGCAGCGCCAC
AGGTGTGGCAGTGGACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTC
TCCCCTGAGGGCAAGTTCAAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGAGTGGCCGTAG
ACCGAATGGACATATCATTGTGGTGCACAACAAGTCTTGTGCGTCTTACCTCCAGCCCAATGGCAA
ACTGTTGGCCGTTTTGGGGCCGTGGGGCCACTGACCGCCACTTGCAGGGCCCAATTTGTGGCTGTG
AACAAACAAGAATGAAATTGTAGTAACGGACTTCCATAACCATTAGTGAAGGTGTACAGTCCCGATGGAG
AGTTCTCTTCAAGTTTGGCTCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGCTGT
GGACTCCAATGGAAACATCATTGTGGTGTGACTGGGGCAACAGCCGATCCAGGTATTCGACAGCTCTGGC
TCCTTCTGTCTATATCAACACATCTGCAGAACCAGTGTATGGTCCACAGGGCCTGGCACTGACCTCGG
ATGGCCATGTGGTGGTGGCTGATGCTGGCAACCACTGCTTAAAGCCTATCGCTACCTCCAGTAG
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_033278 unedited</p> <pre>GCCGGGCGGACGGGCGCTGGCAGCAGTAGCAGCGCCGCGGGCCCTTCAGAGTGGCCGCAG TCCGAGCTTTGCCCTCGCATCCTGTTCCAACGCGAGGCTGGTGTGAGTGGCGGGAGCCAT CTGTGGGCGCCATGGCAAAGAGGGAGGACAGCCCTGGCCCAGAGGTCCAGCCAATGGACA AGCAGTTCTTGGTATGCAGCATCTGCCTGGATCGGTACCAAGTCCCAAGGTTCTTCTT GCCTGACACACCTTCTGTGAGAGATGTCTCCAAAATATATCCCTGCCAGAGCCTGACGC TATCCTGTCCAGTATGCCGCGAGACGTCCATCCTCCCAANAGCAGGGCGTCTCGGCACTG CAGAACAACCTTCTCATCAGCAGCCTCATGGAGGCAAGNCAGCAGGCACCTGGATGGGGC CCACACCCCGNAGGACCCCGCCCTCAGTGGAAATGGGGCTGGNCGCCCTCTCTCTCTG CCCACCATGAAGCAGAGATGGGAGTTTTACTGTGGCCTGTGAGACGCATGTGTGGGGAA GTGCCGCGCCGGGAGCATCGTGAGCTGGCACAGGCTGCTGAGGAATTTGNGGTGNANAG CACAGGGGGCCCTGCAGCGCCACTTAAGCTTGGCGTGGCCGATGCCCAAAGTGTGCGAGA ATGCTTTAATTCGGGGCATCACCANCACTGCAGGACGCAGGGCAAAGGCCTGGCCAAATA TGGCACGGTTTGAGGACTGAGCAGCACTGACACGCAGCAGGCTCTGTAAGGACTGAACAT TTTGGGGGCAAAAAAAGGGTGAACCCTGACCTGGCCCA</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_033278 unedited</p> <pre>NNNCCCTGCTCTGNNACCGCGCCGCAATCTANGATCGGTTTTTTTTTTTTTTTTTTTTTTT CTTGGGAAGACATTTATTTAATATGGGGGTGGGGTATTGCTGTCTCTGTCAAGTGTGA TAGGGTGGTAGGGAGACAAGTAGAGGGACTCCTGTCTGGGGTAGGCTGTTCTGGCCCA GGCTGGGGATGGGGAGCAGACTGACAGGGGTGGGGAGGTGTGAANAAGGTAGGGNGA AGCTCTGCGCACATCCTTGCTACCTCTGTCCAGGCTCACCACTACCAAAGCTAGAACC GAATAACCAAAGGCACCCGTGGGGCGCGGGCAGGACGTCCCTCCCTCCCTTCTCTCCC CCTCCCCCTCCCCCCCCCTTCCCCCCCCCCTCCCCCTCCCTCGTTTTCTCGGCCTC CCTTTATTCACCCCTCCCTCCCTTTCCCTCTCTCCTTCCCTCCCTCTCCCTCCCTT CTTTCTTCCCGTCTGCCCCCCACCCCAACAGCACCCCCCCCTCCTCCCGCGCC CTCCCCCTCGTTCGCCCTCCTCCCCCTGTCTCTCTCTTTCTCGTCGCCCTACCCA CCCGCGCCCTCTCATACCCCTCCCTGCCTCCTCCCTCCTCCTTCTCCTCCTCCTCCT CCTCCTCCTTCTCCTTTCCCTCCGCCCTTTCCGCCCTCAGCGTCCCCTACTCCCCC ACTCCTCGCACACCTCTGAACCCTTCTTCTCTCCTCGCCCGCTCCCTTTCCGCCCTCC TTCTTCTCCCTCTACATCCCCCTCATATTTCCCTCCCTCTTCCCTCTCTCCCAGGCC CTCCCCCTCCCTTGCCTCTCCGTTCCAGTCCCTTCTCTTTCCCTCCCGTTCACCTC CTACCTACTCCCTTTTTTACCACT</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_033278 |
| Insert Size: | 3060 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_033278.2](#), [NP_150594.2](#)

RefSeq Size: 2894 bp

RefSeq ORF: 2235 bp

Locus ID: 10612

UniProt ID: [O75382](#)

Cytogenetics: 11p15.4

Domains: zf-B_box, NHL, Filamin, RING, BBC

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same protein (isoform 1).