

Product datasheet for **SC110176**

RNF22 (TRIM3) (NM_006458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNF22 (TRIM3) (NM_006458) Human Untagged Clone
Tag:	Tag Free
Symbol:	RNF22
Synonyms:	BERP; HAC1; RNF22; RNF97
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC110176 sequence for NM_006458 edited (data generated by NextGen Sequencing)

```

ATGGCAAAGAGGGAGGACAGCCCTGGCCCAGAGGTCCAGCCAATGGACAAGCAGTTCCTG
GTATGCAGCATCTGCCTGGATCGGTACCAAGTGCCTCAAGTTCTTCTTGCCTGCACACC
TTCTGTGAGAGATGTCTCCAAAATATATCCCTGCCAGAGCCTGACGCTATCCTGTCCA
GTATGCCGGCAGACGTCATCTCCAGAGCAGGGCGTCTCGGCACTGCAGAACAACTTC
TTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTGATGGGGCCCCACGACCCGGAG
GACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCTGCCCAACCATGAAGGC
AAGACGATGGAGTTTTACTGTGAGGCTGTGAGACGGCCATGTGTGGTGTAGTGCCGCGCC
GGGAGCATCGTGTGAGCATGGCACAGTGTGCTGAGGGATGTGGTGGAGCAGCACAAAGCG
GCCCTGCAGCGCCAGCTCGAGGCTGTGCGTGGCCGATTGCCACAGCTGTCCGAGCAATT
GCCTTAGTCGGGGCATCAGCCAGCAGCTGCAGGAGCGCAAGGCAGAGGCCCTGGCCAG
ATCAGTGCAGCGTTCGAGGACCTGGAGCAAGCACTGCAGCAGCGCAAGCAGGCTCTGGTC
AGCGACCTGGAGACCATTGTGGGGCCAAACAGAAGGTGTGCAAAGCCAGCTGGACACA
CTGCGCCAGGGTCAGGAACACATCGGCAGTAGTGCAGCTTTCAGAGCAGGCAGCTGCGC
CTGGGCTCGGCCCGGAGGTGTTGCTGGTGCAGCAAGCACATGCGAGAGCGGCTGGCTGCA
TTGGCGGCACAGGCCCTCCCGGAGCGGCCACATGAGAATGCACAGCTGGAAGTGGTCCTT
GAGGTGGACGGTCTGCGGCGATCGGTGCTCAATCTGGGCGCACTGCTCACCACGAGCGCC
ACTGCACACGAAACGGTGGCCACGGGAGAGGGCTGCGCCAGGCGCTAGTGGGCCAGCCT
GCCTCGCTCACTGCTACTACAAAGACAAGGACGGGCGGTTGGTGCACAGGCAGCGCT
GAGCTGCGTGCAGAGATCACCAGGCGGACGGCACGCGCCTTCCGGTCCAGTGGTGGAC
CACAAGAATGGACATATGAGCTAGTGTACACAGCGCGCACGGAAGGCGAGCTGCTCCTC
TCGGTGTGCTCTACGGACAGCCAGTGGCGGCAGCCCCCTCCGCGTGGTGGCCCTGCGT
CCGGGGGACCTGCCACCTTCCCGGACGATGTGAAGCGCCGTGTCAAGTCCCCTGGCGGC
CCCGGCAGCCATGTGCGCCAGAAGGCAGTGCCTAGGCCAGCTCCATGTACAGCACAGGC
GGCAAACGAAAGGACAACCCAATTGAGGATGAGCTCGTCTTCCGTGTTGGCAGTCGTGGA
AGGGAGAAAGGTGAATTCACCAATTTACAAGGTGTGTCAGCAGCCAGCAGCGGCCGCATC
GTGGTAGCAGACAGCAACAACCAAGTGTATTGAGTGTTCCTCAATGAGGGCCAGTTCAAG
TTCCGTTTTGGGGTCCGAGGACGCTCACCTGGGCGCTGCAGCGCCACAGGTGTGGCA
GTGGACACCAATGGAGACATAATTGTGGCAGACTATGACAACCGTTGGGTGAGCATCTTC
TCCCCTGAGGGCAAGTTCAGACCAAGATTGGAGCTGGCCGCTCATGGGCCCAAGGGA
GTGGCCGTAGACCGGAATGGACATATCATTGTGGTGCACAACAAGTCTTGTGCTGCTCTT
ACCTTCCAGCCCAATGGCAAAGTGGTGGCCGTTTTGGGGCCGTTGGGGCCACTGACCGC
CACTTTGCAAGGGCCCCATTTGTGGCTGTGAACAACAAGAATGAAATGTAGTAACGGAC
TTCCATAACCAATTCAGTGAAGGTGTACAGTGCAGTGGAGAGTTCCTCTTCAAGTTTGGC
TCCCATGGCGAGGGCAATGGGCAGTTCAATGCCCCACAGGAGTAGTGTGGACTCCAAT
GGAAACATCATTGTGGCTGACTGGGGCAACAGCCGCATCCAGGTATTTCAGAGCTCTGGC
TCCTTCTGTCTATATCAACACATCTGCAGAACCACTGTATGGTCCACAGGGCCTGGCA
CTGACCTCGGATGGCCATGTGGTGGTGGCTGATGCTGGCAACCACTGCTTTAAAGCCTAT
CGCTACCTCCAGTAG

```

Clone variation with respect to NM_006458.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006458 unedited
 GACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGAGGCTGGTGTGAGTGGCGGGA
 GCCATCTGTGGGCGCCATGGCAAAGAGGGAGGACAGCCCTGGCCCAGAGGTCCAGCCAAT
 GGACAAGCAGTTCCTGGTATGCAGCATCTGCCTGGATCGGTACCAGTGCCCAAGTTCT
 TCCTTGCTGCACACCTTCTGTGAGAGATGTCTCCAAACTATATCCCTGCCAGAGCCT
 GACGCTATCCTGTCCAGTATGCCGGCAGACGTCCATCCTCCCAGAGCAGGGCGTCTCGGC
 ACTGCAGAACAACCTTCTCATCAGCAGCCTCATGGAGGCAATGCAGCAGGCACCTGATGG
 GGCCACGACCCGGAGGACCCCAACCCCTCAGTGTAGTGGCTGGCCGCCCTCTCTCCTG
 CCCCACCATGAAGGCAAGACGATGGAGTTCTACTGTGAGGCCTGTGACACGGCCATGTG
 TGGTGAGTGCCGCGCCGNGAGCATCGTGAGCATGGCACAGTGCTGCTGANGGATGTGGT
 GGAGCAGCACAAGGCGGCCCTGCATCGCCAGCTCGAGGCTGTGCGTGGCCGATTGCCACA
 GCTGTCCGCAACAATTGCCTTAGTCGNGGCATCANCCANCANCTGCATGAGCGCAAGGC
 AAAGGCCNTGCCAGATCAGTGCANCGTTCGAGGACCTGAAGCAAGCACTGCATCAGCG
 CAAGCAGGCTCTGGTCANCGACCTGGAGCCATTTGTGGGACAAACAGAATGTGTTGCAA
 GCCAGCTGGACCACTGCGCCAGGTCANGACACATCGGCAGTAGCTGCACCTTGCAAGCA
 GCACTGCGCCTGGCTCGCCCGGAGTTGTGCTGTTGCCAGCCATGAANAGCGCTGCCTGA
 TTGCGGACAGCTTCCCGACGNCAATGAAATGCACTGGACTGTCTCTGAGNAGACGCTGGCA
 ATCGTGCTATCTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006458 unedited
 AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCTTGGTGAAGACATTTATTTAATATGGG
 GGGTGGGTATTGCTGTCTGTGTCAGTGTATAGGGTGTAGGGAGACAAGTAGAGGGA
 CTCTGTCTGGGTAGGCTGTTCTGGCCCAGGCTGGGGATGGGGAGCAGACTGACAG
 GGGTGGGAGGTGTGAAAAAGGGTAGGGTGAAGCTCTGCACACATCCTTGGGACCACAG
 TCCAGGCTCACCCAGTCACCAAAGCAAGAACCGAATAAATAAAGTGAACCGTGGGGGTG
 GGGTAGGAGAGGGGAGGGCACCTGTTGCACCCATGCCACAGCCACATTCAGTGTGCC
 AGGACTGGCCACCTACCATCCATACCCCTTTGTACAATTTCCCAATGTGGGTCCTTCC
 ACAAGCCATGCAAGGCCTCTGTACAGTTACTGGAGGCATCGATTGGCTTTAAAGCACTGG
 TGTGGCAGAATCTGCCACCACAGATGTCCATGCGACGTTAGTGCCAGGCCCTGCGGACA
 TACAGGGGCANTCTAGATGTGTATGTACATGACTGGAACGTTCCAGGACTGTCACATACT
 TTGGTTCTGTTGCTGGCCGATGCACTCAGGATGAAAGGGCCCTTGGAGTCCACAACACT
 TGTGGTGTGGAGGCCACTTGCAATTGCTCTCGCCATGGGATGCCCTTTGAAAAGAATT
 TTTGCGCTACTTTGTACCACTTTAGGGAAGGGTTTTCTTTGCGGGATGCAGCTCTTT
 TTTGGTATGGACCCCTCCTAAAAGAGGTCCTCCAAGGAGCTAGCCACACCCACCCGGT
 GCGGAATGCGGCAACCAGCTGGGAAGTGGTAATATGTTTAAAGACGTTCTTTTTTTTTG
 ACCGGGAATTCCTTTCAAATCTGAGCCACGCCCTCTTGGGCAATAAGCCACAAGAC
 ACTTCACATAATTGACTTATATCTTGAGCTAAACACTTCATTCTTTGATATTGGGCAAT
 GTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_006458

Insert Size:

2840 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_006458.2](#), [NP_006449.2](#)

RefSeq Size: 3059 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 (1) represents the longest transcript. Variants 1, 2 and 4 encode the same protein (isoform 1).