

Product datasheet for **RC214834**

ZNF675 (NM_138330) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF675 (NM_138330) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF675
Synonyms:	TBZF; TIZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214834 ORF sequence, **codon optimized**.
Due to the complexity of NM_138330, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCCTGCTTACCTTTAGGGACGTGGCGATCGAGTTTAGCTTGGAGGAATGGCAGTGCTTGGATACAG
 CCCAGCGAAACCTCTATAAAGACGTCATTCTCGAGAACTACAGAAATCTGGTTTTCTCGGGATTGCAGT
 GAGTAAGCAGGACCTCATTACTTGTCTTGAACAGGAAAAAGAACCCCTGACCGTTAAGAGGCACGAGATG
 GTGAATGAGCCGCCAGTGATGTGCTCACACTTTGCCAGGAGTTTGGCCGGAGCAGAATATTAAGACA
 GCTTTGAAAAGGTGACATTGCGGCGATATGAGAAGTGCAGCAACGATAACTTTCAGCTCAAAGGATGCAA
 GTCAGTCGACGAGTGCAAGCTCCATAAAGGGGGCTATAACGGCCTCAATCAGTGCCTTCCCACCATGCGAG
 AGCAAAATGTTCCAGTGCATAAGTATGTGAAAGTCTTCAATAAGTTTAGTCATTCTGACCGGCACAAAA
 TTAAGCACATGGAAAAAAGCCTTTCAAGTGTAAGAATGCGGACGATCTTTTTGTATGTGCTCTCACCT
 GACACGGCAGCAAAAGAACTATACAAAGGTCAATTTTTGCAATGCGAGGAGTGCAAAAAGCCGTAAC
 CAGTCTCCAAGTTGACCAAACTATAAAGAATCTACACATGTGAGAAGCTCTATAAGTGCAGGAATGCG
 ATGTGAGGAATGTGGGAAGGCTTTAATCAGAGCTCCACCTTACCACCTACAAGATCATCCATACGGGG
 GAAAAGCCTTACAAGTGTGAGGAGTGCAGGAAAGCCTTCAACCAGTTTAGTAATTTGACTACTCACAAAG
 AGATCCATACTGGTGAGCAGCCGTATATCTGTGAGGAATGCGGTAAGGCATTTACACAGTCTTCTACCCT
 TACCACCTACAAACGCATACACACCGGCGAAAAGCCGTACAAGTGCAGGAATGCGGCAAAGCGTTTAAAC
 AGGTCTCTAAGCTTACAGAACAAGAACATTACACCGGCGAGCAGCCATATAAATGCGAAGAGTGTG
 GGAAGGCGTTTAAACCGCAGCAGCAACCTGACCGAACATCGAAAAATCCACACTGAAGAGAAGCCATAAA
 GTGTAAGAATGTGTAAGCATTCAAACACTCTTACAGCCCTCACAACTCATAAAGGATCCACACGGGA
 GAAAAACCTTACAAATGCGAGGAGTGCAGCAAGGCTTTCAACAGATCTTCAAAGCTGACCGAGCACAAGA
 AGCTTCATACAGGAAGAAGCCCTACAAGTGTGAGAATGTGAAAAGCTTTTATTCAAAGCTCTAAGCT
 GACAGAACAAAAAGATTCACTCCGGAGAGATCCCTATAAATGCGAGGAATGTGGGAAAAGCCTTCAAG
 CACTCCAGCAGCCTTACAACCCATAAACGCATCCACACAGGCGAGAAACCATATAAGTGCGAAGAGTGCG
 GCAAGGATTTTCCAGGAGTAGCAAGCTGACCGAGCAGCAAAATCATCCATACCGGGGAGAAAACCTTAA
 ATGCGAGCGCTGCGACAAGGCTTCAATCAATCCGCTAACCTGACCAAGCACAAGAAGATTCACACGGGA
 GAGAAATTGCAGAATTGGAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214834 representing NM_138330
Red=Cloning site Green=Tags(s)

MGLL TFRDV AIEFSL EEWQCL DTAQRNL YKNVILENYRNL VFLGIAVSKQDLITCLEQEKEPLTVKRHEM
 VNEPPVMCSHFAQEFWPEQNIKDSFEKVTLRRYEKCGDNFQLKGCKSVDECKLHKGGYNGLNQCLPTMQ
 SKMFQCDKYVKVFNKFSHSDRHKIKHMENKPFKCKEGRSFCMLSHLTRHERNYTKVNFCKCEECEKAVN
 QSSKLTKHKRIYTCEKLYKCQECDRTFNQFSNLTEYKDYAREKPYKCEECEGKAFNQSSHLTTHKIHTG
 EKPYKCEECEGKAFNQFSNLTTHKKIHTGEQPYICEEKGKAFQSSLTTHKRIHTGEKPYKCEECEGKAFN
 RSSKLTETHKNIHTGEQPYKCEECEGKAFNRSSNLTEHRKIHTEEKPYKCKEKGKAFKHSSALTTTHKRIHTG
 EKPYKCEECEGKAFNRSSKLTETHKLTHTGKPYKCEECEGKAFIQSSKLTETHKIIHSGEIPYKCEECEGKAFK
 HSSSLTTHKRIHTGEKPYKCEECEGKAFSRSSKLTETHKIIHTGEKPYKCEKCDKAFNQSANLTKHKIHTG
 EKLQNWNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_138330

ORF Size: 1704 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138330.1](#), [NM_138330.2](#), [NP_612203.1](#), [NP_612203.2](#)

RefSeq Size: 2209 bp

RefSeq ORF: 1707 bp

Locus ID: 171392

UniProt ID: [Q8TD23](#)

Cytogenetics: 19p12

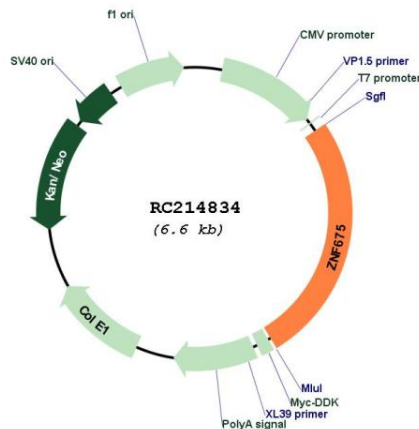
Domains: KRAB, zf-C2H2

Protein Families: Transcription Factors

MW: 66.3 kDa

Gene Summary: May be involved in transcriptional regulation. May play a role during osteoclast differentiation by modulating TRAF6 signaling activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC214834