

Product datasheet for RC216001

IL32 (NM_004221) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL32 (NM_004221) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IL32
Synonyms: IL-32alpha; IL-32beta; IL-32delta; IL-32gamma; NK4; TAIF; TAIFa; TAIFb; TAIFc; TAIFd
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC216001 representing NM_004221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGTGCTTCCCGAAGGTCTCTCTGATGACATGAAGAAGCTGAAGGCCGAATGCACCAGGCCATAGAAA
 GATTTTATGATAAAATGCAAAATGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGA
 GGACGACTTCAAAGAGGGCTACCTGGAGACAGTGGCGGCTTATTATGAGGAGCAGCACCCAGAGCTCACT
 CCTCTACTTGAAAAGAAAGAGATGGATTACGGTCCGAGGCAACAGATCCCCTGTCCCGGATGTTGAGG
 ATCCCGCAACCGAGGAGCCTGGGAGAGCTTTTGTGACAAGGTCATGAGATGGTCCAGGCCATGCTGCA
 GCGGCTGCAGACCTGGTGGCACGGGTTCTGGCCCTGGGTGAAGGAGAAGGTGGTGGCCCTGGTCCATGCA
 GTGCAGGCCCTCTGAAAACAGTTCAGAGTTTCTGCTGCTCTCTGTGAGACTCTTCATGTCTCTTTCC
 AGTCTACGGAGCCCCACGGGGGACAAGGAGGAGCTGACACCCAGAAGTGTCTGAAACCCCAATCCTC
 AAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216001 representing NM_004221
 Red=Cloning site Green=Tags(s)

MCFPKVLSDDMKLKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELDDFKEGYLETVAAAYEEQHPPELT
 PLLEKERDGLRCRGNRSPVPDVEDPATEEPGESFCDKVMRWFQAMLQRLQTWWHGVLAWVKEKVVVALVHA
 VQALWKQFQSFCCSLSELFMSSFQSYGAPRGDKEELTPQKCEPQSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6112_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004221

ORF Size: 564 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_004221.7](#)

RefSeq Size: 1090 bp

RefSeq ORF: 567 bp

Locus ID: 9235

UniProt ID: [P24001](#)

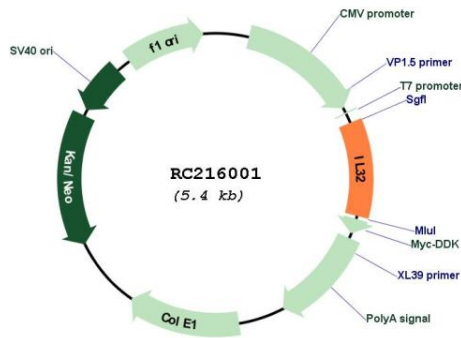
Cytogenetics: 16p13.3

Protein Families: Secreted Protein

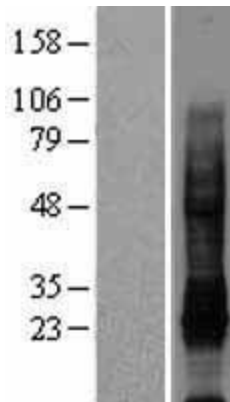
MW: 21.6 kDa

Gene Summary: This gene encodes a member of the cytokine family. The protein contains a tyrosine sulfation site, 3 potential N-myristoylation sites, multiple putative phosphorylation sites, and an RGD cell-attachment sequence. Expression of this protein is increased after the activation of T-cells by mitogens or the activation of NK cells by IL-2. This protein induces the production of TNFalpha from macrophage cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC216001



Western blot validation of overexpression lysate (Cat# [LY401352]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216001 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).