

Product datasheet for RC216048

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IL32 (NM_001012633) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IL32 (NM_001012633) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: IL32

Synonyms: IL-32alpha; IL-32beta; IL-32delta; IL-32gamma; NK4; TAIF; TAIFa; TAIFb; TAIFc

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001) **E. coli Selection:** Kanamycin (25 ug/mL)

ORF Nucleotide >RC216048 representing NM_001012633
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTGCTTCCCGAAGGTCCTCTCGATGACATGAAGAAGCTGAAGGCCCGAATGCACCAGGCCATAGAAA GATTTTATGATAAAATGCAAAATGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGA GGACGACTTCAAAGAGGGCTACCTGGAGACAGTGGCGGCTTATTATGAGGAGCACCCAGAGCTCACT CCTCTATTTGAAAAAGAAAGAAGAGTGGATTACGGTGCCGAGGCAACAGATCCCCTGTCCCGGATGTTGAGG ATCCCGCAACCGAGGCCTGGGGGAGAGCTTTTGTGACAAGTCCTACGGAGCCCCACGGGGGGACAAGGA GGAGCTGACACCCCAGAAGTGCTCTGAACCCCAATCCTCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216048 representing NM_001012633

Red=Cloning site Green=Tags(s)

MCFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELEDDFKEGYLETVAAYYEEQHPELT

PLFEKERDGLRCRGNRSPVPDVEDPATEEPGESFCDKSYGAPRGDKEELTPQKCSEPQSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

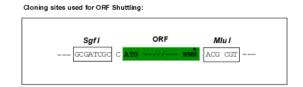
Chromatograms: https://cdn.origene.com/chromatograms/mk6488 g05.zip

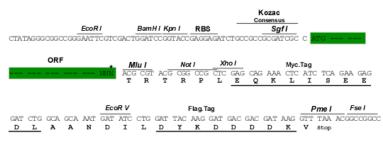
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001012633

ORF Size: 393 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: <u>NM 001012633.1, NP 001012651.1</u>

 RefSeq Size:
 919 bp

 RefSeq ORF:
 396 bp

 Locus ID:
 9235

 UniProt ID:
 P24001



Cytogenetics: 16p13.3

Protein Families: Secreted Protein

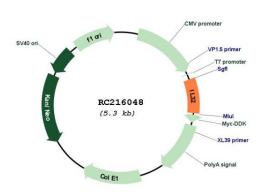
MW: 14.7 kDa

Gene Summary: This gene encodes a member of the cytokine family. The protein contains a tyrosine sulfation

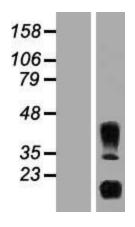
site, 3 potential N-myristoylation sites, multiple putative phosphorylation sites, and an RGD cell-attachment sequence. Expression of this protein is increased after the activation of T-cells by mitogens or the activation of NK cells by IL-2. This protein induces the production of TNFalpha from macrophage cells. Alternate transcriptional splice variants, encoding different

isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:

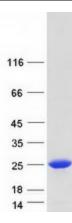


Circular map for RC216048



Western blot validation of overexpression lysate (Cat# [LY422886]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216048 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified IL32 protein (Cat# [TP316048]). The protein was produced from HEK293T cells transfected with IL32 cDNA clone (Cat# RC216048) using MegaTran 2.0 (Cat# [TT210002]).