

Product datasheet for RC220051

IL17B (NM_014443) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL17B (NM_014443) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IL17B
Synonyms: IL-17B; IL-20; NIRF; ZCYTO7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220051 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTGGCCTCACAACCTGCTGTTTCTTCTTACCATTCCATCTTCTGGGGCTGGGCCAGCCAGGA
 GCCCAAAGCAAGAGGAAGGGCAAGGGCGGCCTGGCCCTGGCCCTACCAGGTGCCACT
 GGACCTGGTGTACGGATGAAACCGTATGCCCGCATGGAGGAGTATGAGAGGAACATCGAGGAGATGGT
 GCCCAGCTGAGGAACAGCTCAGAGCTGGCCAGAGAAAGTGTGAGGTCACTTGCAGCTGTGGATGTCCA
 ACAAGAGGAGCCTGTCTCCTGGGGCTACAGCATCAACCAGACCCAGCCGTATCCCCGTGGACCTGCC
 GGAGGCACGGTGCCTGTGTCTGGGCTGTGTGAACCCCTTACCATGCAGGAGGACCGCAGCATGGTGAGC
 GTGCCGGTGTTCAGCCAGGTTCTGTGCGCCGCCCTCTGCCCGCCACCGCCCGCACAGGGCCTTGCC
 GCCAGCGCGCAGTCATGGAGACCATCGCTGTGGGCTGCACCTGCATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220051 protein sequence
 Red=Cloning site Green=Tags(s)

MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGQGRPGPLAPGPHQVPLDLVSRMKPYARMEEYERNIEEMV
 AQLRNSSELAQRKCEVNLQLWMSNKRSLSPWGYINHDPSRIPVDLPEARCLCLGCVNPFMTQEDRSMVS
 VPVFSQVPVRRRLCPPPPRTGPCRQRAVMETIavgctcIF

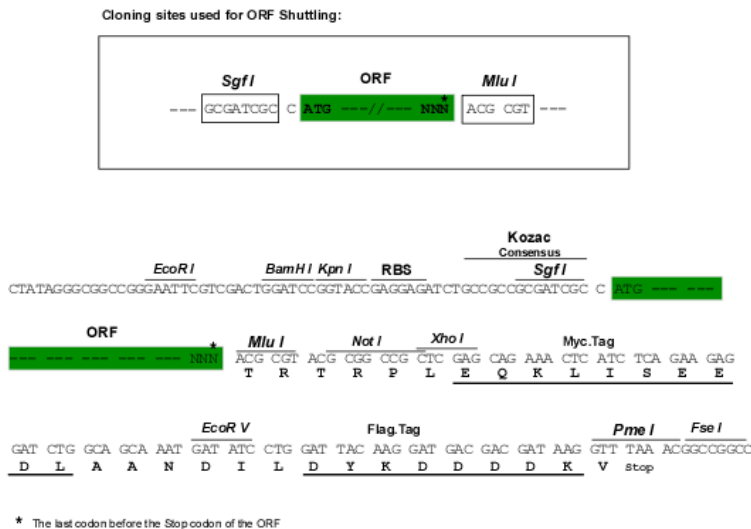
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6444_d12.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014443

ORF Size: 540 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_014443.3](#)

RefSeq Size: 711 bp

RefSeq ORF: 543 bp

Locus ID: 27190

UniProt ID: [Q9UHF5](#)

Cytogenetics: 5q32

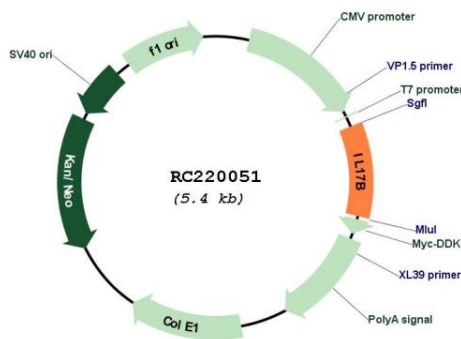
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction

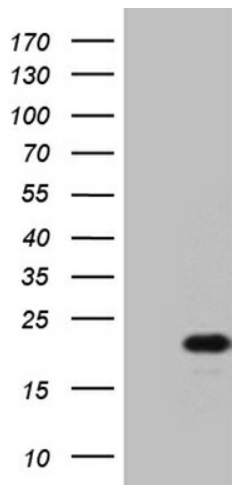
MW: 20.4 kDa

Gene Summary: The protein encoded by this gene is a T cell-derived cytokine that shares sequence similarity with IL17. This cytokine was reported to stimulate the release of TNF alpha (TNF) and IL1 beta (IL1B) from a monocytic cell line. Immunohistochemical analysis of several nerve tissues indicated that this cytokine is primarily localized to neuronal cell bodies. Alternative splicing results in multiple splice variants. [provided by RefSeq, Dec 2015]

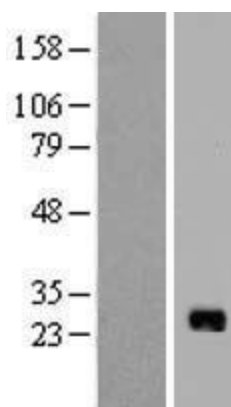
Product images:



Circular map for RC220051



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IL17B (Cat# RC220051, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IL17B (Cat# [TA811134])(1:2000). Positive lysates [LY415268] (100ug) and [LC415268] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415268]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220051 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).