

Product datasheet for RC232039

IL18 (NM_001243211) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IL18 (NM_001243211) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: IL18
Synonyms: IGIF; IL-1g; IL-18; IL1F4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232039 representing NM_001243211
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTGAACCAGTAGAAGACAATTGCATCAACTTTGTGGCAATGAAATTTATTGACAATACGCTTT
 ACTTTATAGAAAACCTGGAATCAGATTACTTTGGCAAGCTTGAATCTAAATTATCAGTCATAAGAAATTT
 GAATGACCAAGTTCTCTTCATTGACCAAGGAAATCGGCCTCTATTTGAAGATATGACTGATTCTGACTGT
 AGAGATAATGCACCCCGGACCATATTTATTATAAGTATGTATAAAGATAGCCAGCCTAGAGGTATGGCTG
 TAACTATCTCTGTGAAGTGTGAGAAAATTTCAACTCTCTCTGTGAGAACAAAATTTTCCTTTAAGGA
 AATGAATCCTCTGATAACATCAAGGATACAAAAGTGACATCATATTCTTTAGAGAAGGTGCCAGGA
 CATGATAATAAGATGCAATTTGAATCTTCATCATACGAAGGATACCTTTAGCTTGTGAAAAAGAGAGAG
 ACCTTTTTAAACTCATTTTGAAAAAGAGGATGAATTGGGGGATAGATCTATAATGTTCACTGTTCAAAA
 CGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232039 representing NM_001243211
 Red=Cloning site Green=Tags(s)

MAAEPVEDNCINFVAMKFDNTLYFIENLESDYFGKLESKLSVIRNLNDQVLFIDQGNRPLFEDMTDSDC
 RDNAPRTIFIISMYSQPRGMAVTISVKCEKISTLSCENKIIISFKEMNPPDNIKDTSIIFFQRSVPG
 HDNKMQFESSYEGYFLACEKERDLFKLILKKEDELGDRSIMFTVQNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243211

ORF Size: 567 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_001243211.2](#)

RefSeq Size: 1151 bp

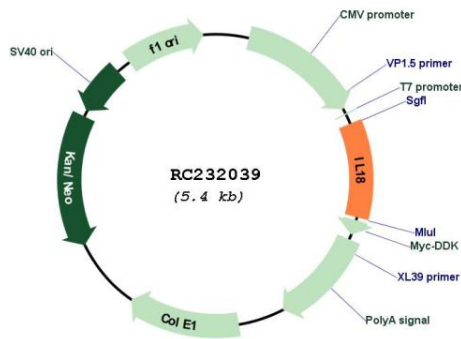
RefSeq ORF: 570 bp

Locus ID: 3606

UniProt ID: [Q14116](#)

Cytogenetics:	11q23.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, NOD-like receptor signaling pathway
MW:	22.3 kDa
Gene Summary:	The protein encoded by this gene is a proinflammatory cytokine of the IL-1 family that is constitutively found as a precursor within the cytoplasm of a variety of cells including macrophages and keratinocytes. The inactive IL-18 precursor is processed to its active form by caspase-1, and is capable of stimulating interferon gamma production, and of regulating both T helper (Th) 1 and Th2 responses. This cytokine has been implicated in the injury of different organs, and in potentially fatal conditions characterized by a cytokine storm. In humans, IL-18 gene is located on chromosome 11. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2020]

Product images:



Circular map for RC232039