

Product datasheet for RC204638

IL37 (NM_014439) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL37 (NM_014439) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL37
Synonyms:	FIL1; FIL1(ZETA); FIL1Z; IL-1F7; IL-1H; IL-1H4; IL-1RP1; IL-23; IL-37; IL1F7; IL1H4; IL1RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204638 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAAGGGCGCCGGGAATTCTCGACTGGATCCGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTTGCGGGGAGAACTCAGGAGTGAAATGGCTCTGAGGACTGGAAAAGATGAACCCCAGT
GCTGCTAGAACCGGCTGTAAGCCCCCTGAAACCAGGCCAAGCCTCCCCGCATGAATTGTTCA
CACAAGTCAAAGGTGAAGAACTTAAACCGAAGAAATTCACTGACCAGGATCACAAGTACTG
GTCTGGACTCTGGAATCTCATAGCAGTCCAGATAAAACTACATACGCCAGAGATCTTCTTGCAT
TAGCCTCATCCTTGAGCTCAGCCTCTGCCAGAAAGGAAGTCCGATTCTCCTGGGTCTCTAAAGGGGA
GTTTGTCTACTGTGACAAGATAAGGACAAAGTCATCCATCCCTCAGCTGAAGAAGGAGAAACTG
ATGAAGCTGGCTGCCAAAGGAATCAGCACGCCGGCCCTCATCTTATAGGCTCAGGTGGCTCCT
GGACATGCTGGAGTCGGCGGCTCACCCGGATGGTCATCTGCACCTCCTGCAATTGAAATGAGCCTGT
TGGGTGACAGATAATTGAGAACAGAACACATTGAATTTCATTCACCAACAGTTGCAAAGCTGAA
ATGAGCCCCAGTGAGGTAGCGAT

ACCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



Protein Sequence: >RC204638 protein sequence
 Red=Cloning site Green=Tags(s)

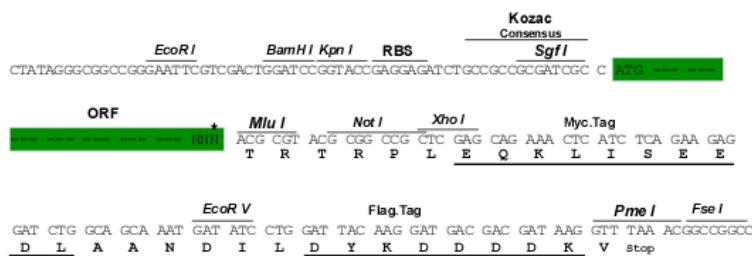
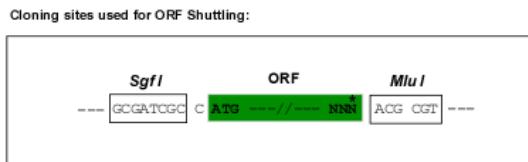
MSFVGENSEGVKMGSEDWEKDEPQCCLLEDPAVSPLEPGPSLPAMNFVHTSPKVKNLNPKKFSIHDQDHKVL
 VLDGNLIAVPDKNYIRPEIFFALASSLSSASAEGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKL
 MKLAAQKESARRPFIFYRAQVGWSNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAE
 MSPSEVSD

TRTRPLEQKLISEEDLAANDILDYKDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6172_b01.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_014439

ORF Size: 654 bp

OTI Disclaimer:

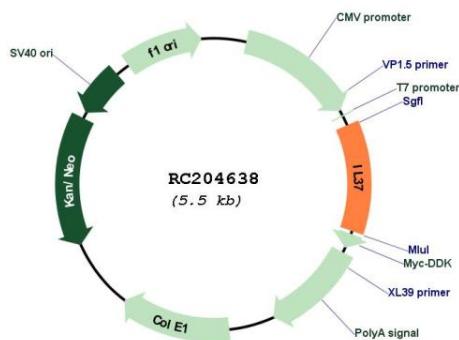
Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

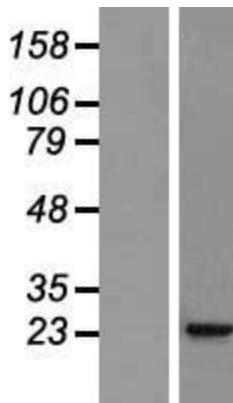
OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

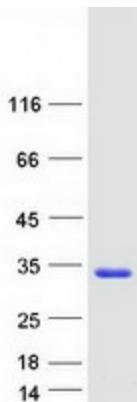
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open 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:	<u>NM_014439.3</u> , <u>NP_055254.2</u>
RefSeq Size:	787 bp
RefSeq ORF:	657 bp
Locus ID:	27178
UniProt ID:	<u>Q9NZH6</u>
Cytogenetics:	2q14.1
Protein Families:	Druggable Genome, Secreted Protein
MW:	24.1 kDa
Gene Summary:	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine can bind to, and may be a ligand for interleukin 18 receptor (IL18R1/IL-1Rrp). This cytokine also binds to interleukin 18 binding protein (IL18BP), an inhibitory binding protein of interleukin 18 (IL18), and subsequently forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL18. This gene along with eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. Five alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:

Circular map for RC204638



Western blot validation of overexpression lysate (Cat# [LY415287]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204638 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IL37 protein (Cat# [TP304638]). The protein was produced from HEK293T cells transfected with IL37 cDNA clone (Cat# RC204638) using MegaTran 2.0 (Cat# [TT210002]).