

Product datasheet for **RC229749**

Interleukin 34 (IL34) (NM_001172771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Interleukin 34 (IL34) (NM_001172771) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Interleukin 34
Synonyms:	C16orf77; IL-34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229749 representing NM_001172771 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGGCTTACCTGGCTGCGCTATCTTGGGATCTTCTTGGCGTGGCCTTGGGGAATGAGCCTT
TGGAGATGTGGCCCTTGACGCAGAATGAGGAGTGCAGTGTACCGGTTTTCTGCGGGACAAGCTGCAGTA
CAGGAGCCGACTTCAGTACATGAAACACTACTTCCCCATCAACTACAAGATCAGTGTGCCTTACGAGGGG
GTGTTCAGAATCGCCAACGTACCAGGCTGCAGAGGGCCAGGTGAGCGAGCGGGAGCTGCGGTATCTGT
GGGTCTTGGTGAACCTCAGTGCCTGAGTCCGGTGCAGGACGTGCTGCTCGAGGGCCACCCATCCTGGAA
GTACCTGCAGGAGGTGCAGACGCTGCTGCTGAATGTCCAGCAGGGCCTCACGGATGTGGAGGTGAGCCCC
AAGGTGGAATCCGTGTTGTCCCTCTTGAATGCCCCAGGGCCAAACCTGAAGCTGGTGCAGGGCCAAAGCCC
TGCTGGACAACCTGCTTCCGGGTGATGGAGCTGCTGACTGCTCCTGCTGTAACAAAGCTCCGTCCTAAA
CTGGCAGGACTGTGAGGTGCCAAGTCTCAGTCTTGCAGCCCAGAGCCCTCATTGCAGTATGCGGCCACC
CAGCTGTACCCTCCGCCCGTGGTCCCCAGCTCCCCGCTCACTCCACGGGCTCGGTGAGGCCGGTCA
GGGCACAGGGCGAGGGCCTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229749 representing NM_001172771
Red=Cloning site Green=Tags(s)

MPRGFTWLRYLGI FLGVALGNEPLEMWP L TQNEECTVTGFLRDKLQYRSRLQYMKHYFPIN YKISVPEYEG
 VFR IANVTRLQRAQV SERELRYLWV L VSL SATESVQDVLLEGHPSWKYLQEVQ T L L L N V Q Q L T D V E V S P
 K V E S V L S L L N A P G P N L K L V R P K A L L D N C F R V M E L L Y C S C C K Q S S V L N W Q D C E V P S P Q S C S P E P S L Q Y A A T
 Q L Y P P P P W S P S P P H S T G S V R P V R A Q G E G L L P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1484_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001172771

ORF Size: 726 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_001172771.1](#), [NP_001166242.1](#)

RefSeq ORF: 726 bp

Locus ID: 146433

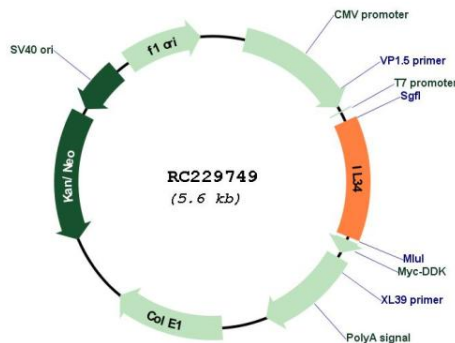
UniProt ID: [Q6ZMJ4](#)

Cytogenetics: 16q22.1

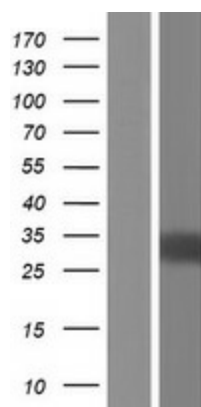
MW: 27.8 kDa

Gene Summary: Interleukin-34 is a cytokine that promotes the differentiation and viability of monocytes and macrophages through the colony-stimulating factor-1 receptor (CSF1R; MIM 164770) (Lin et al., 2008 [PubMed 18467591]).[supplied by OMIM, May 2008]

Product images:



Circular map for RC229749



Western blot validation of overexpression lysate (Cat# [LY432749]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229749 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).