

Product datasheet for **RC206629**

Interleukin 34 (IL34) (NM_152456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Interleukin 34 (IL34) (NM_152456) 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:	>RC206629 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCCGGGCTTCACCTGGCTGCGCTATCTTGGGATCTTCTTGGCGTGGCCTTGGGGAATGAGCCTT
TGGAGATGTGGCCCTTGACGCAGAATGAGGAGTGCAGTGTACCGGTTTTCTGCGGGACAAGCTGCAGTA
CAGGAGCCGACTTCAGTACATGAAACACTACTTCCCCATCAACTACAAGATCAGTGTGCCTTACGAGGGG
GTGTTCAGAATCGCCAACGTACCAGGCTGCAGAGGGCCAGGTGAGCGAGCGGGAGCTGCGGTATCTGT
GGGTCTTGGTGAACCTCAGTGCCTGAGTCCGGTGCAGGACGTGCTGCTCGAGGGCCACCCATCCTGGAA
GTACCTGCAGGAGGTGCAGACGCTGCTGCTGAATGTCCAGCAGGGCCTCACGGATGTGGAGTGCAGCCCC
AAGGTGGAATCCGTGTTGTCCTCTTGAATGCCCCAGGGCCAAACCTGAAGCTGGTGCAGCCCCAAAGCCC
TGCTGGACAACCTGCTTCCGGGTGATGGAGCTGCTGACTGCTCCTGCTGTAACAAAGCTCCGTCCTAAA
CTGGCAGGACTGTGAGGTGCCAAGTCTCAGTCTTGCAGCCCAGAGCCCTCATTGCAGTATGCGGCCACC
CAGCTGTACCCTCCGCCCGTGGTCCCCCAGCTCCCCGCTCACTCCACGGGCTCGGTGAGGCCGGTCA
GGCACAGGGCGAGGGCTCTTGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206629 protein sequence
Red=Cloning site Green=Tags(s)

MPRGFTWLRYLGI FLGVALGNEPLEM WPLTQNEECTVTGFLRDKLQYRSRLQYMKHYFPIN YKISVPEYGVFR IANVTRLQRAQV SERELRYLWVLVSL SATESVQDVLLEGHPSWKYLQEVQ TLLLLNVQQGLTDVEVSPKVESVL SLLNAPGNLKLVRPKALLDNCFRVMELLYCSCCKQSSVLNWQDCEVPS PQSCSPEPSLQYAAT QLYPPPPWSPSSPPHSTG SVRPVRAQGEGLLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6135_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152456

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152456.1](#), [NP_689669.1](#)

RefSeq Size: 1796 bp

RefSeq ORF: 729 bp

Locus ID: 146433

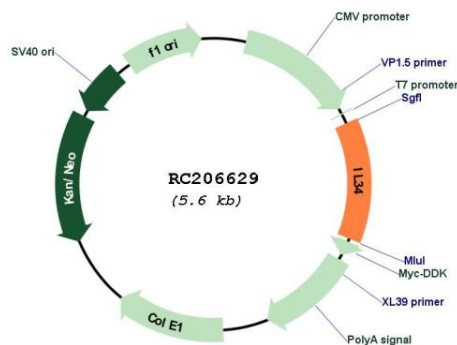
UniProt ID: [Q6ZMJ4](#)

Cytogenetics: 16q22.1

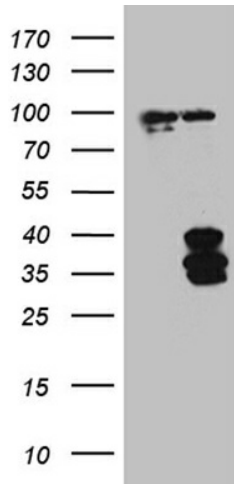
MW: 27.5 kDa

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]

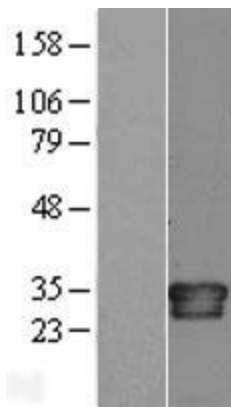
Product images:



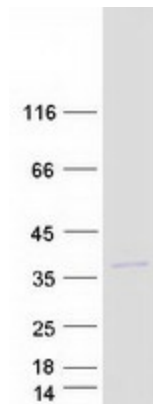
Circular map for RC206629



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IL34 (Cat# RC206629, 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-IL34 (Cat# [TA811737])(1:2000). Positive lysates [LY403469] (100ug) and [LC403469] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403469]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206629 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IL34 protein (Cat# [TP306629]). The protein was produced from HEK293T cells transfected with IL34 cDNA clone (Cat# RC206629) using MegaTran 2.0 (Cat# [TT210002]).