

Product datasheet for **RC234504**

IL4I1 (NM_001258017) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_001258017) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IL4I1
Synonyms:	FIG1; hIL4I1; LAAO; LAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234504 representing NM_001258017
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAACGATGACTTCTGTCCTGGGCTAACCATAAAGGCCATGGGTGCTGAGAGAGCCCCCAGAGGC
 AGCCATGCACCCTGCACCTCCTCGTCTCGTCCCCTCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGAA
 GGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTG
 GTGACCTGGGGCTCAATCGGACCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGC
 TGGTGGCCGCAAGGTGCTCAGCGATGCTGGACACAAGGTACCATCCTGGAGGCAGATAACAGGATCGG
 GGGCCGCATCTTACCTACCGGGACCAGAACATGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCC
 AGCTCTCACAGGATCCTCCACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCACCCAGTACG
 ACAAGAACACGTGGACGGAGGTGCACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAA
 GCTGGGCTACGCCTTGCCTCCCCAGGAAAAGGGCCACTCGCCGAAGACATCTACCAGATGGCTCTCAAC
 CAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCAGAAAGGCGATGAAGAAGTTTAAAGGCACACGCTCT
 TGGAAATCTTCTCGGGAGGGGAACCTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGACGTGATGTCGA
 GGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCCACAGCTGCCTCAGCGACAGACTCCAG
 TACAGCCGCATCGTGGGTGGTGGGACCTGCTGCCGCGCGCGCTGCTGAGCTCGCTGTCCGGCTTGTGC
 TGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCAGATCGAGACCTCTCC
 CCCGGCGCGGAATCTGAAGGTGCTGAAGCCGACGTGGTGTGCTGCTGACGGCGAGCGGACCGCGGTGAAG
 CGCATCACCTTCTCGCCCGCGTGCCTCCGACATGCAGGAGCGCTGCGGAGGCTGCACACTCGTCCGCCG
 CCACAAGGTGTTCTCAAGCTTCCGAGGCCCTTCTGGCGGAGGAGCACATTGAAGCGGCCACTCAA
 CACCGATCGCCCGTCCGCGATGATTTCTACCCGCGCGCGGAGGGCGCGCTGCTGCTGGCTCGTAC
 ACGTGGTTCGACGCGCGGCGAGCGTTCCGCGGCTTGGCCGGAAGAGGCGTTGCGCTTGGCGCTCGACG
 ACGTGGCGGCAATTGCACGGGCTGCTGTCGCCAGCTCTGGGACGGCACCGGCGTCAAGCGTTGGGC
 GGAGGACCAGCACAGCCAGGGTGGCTTTGGTACAGCCGCGCGCTCTGGCAAACGAAAAGGATGAC
 TGGACGGTCCCTTATGGCCGCATCTACTTTCGCGGCGAGCACACCGCCTACCCGACGGCTGGTGGAGA
 CGGCGGTCAAGTCGGCGCTGCGCGCCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGC
 CAGCCCCGAGGGGACGCATCTGACATGGAGGGGACGGGCGATGTGCATGGGTGGCCAGCAGCCCTCG
 CATGACCTGGCAAAGGAAGAAGGCACCCCTCCAGTCAAGGCCAGTTATCTCTCAAACACGACCC
 ACACGAGGACCTCGCAT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234504 representing NM_001258017
 Red=Cloning site Green=Tags(s)

MPNDDFCPLTIKAMGAERAPQRQPCTLHLLVLPILLSLVAQDWAERSQDPFEKCMQDPDYEQLLKV
 VTWGLNRTLKQPRVIVVGAGVAGLVAAKVLS DAGHKVTILEADNRIGGRIFTYRDQNMGWIGELGAMRMP
 SSTRILHKL CQGLGLNL TKFTQYDKNTWTEVHEVKLRNYVVEKVPEKLGALRPQEKHSPEDIYQMALN
 QALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPAVQLLDVMSDGFYLSFAEALRAHSCLSDRLQ
 YSRIVGGWDLPRALLSSL SGLVLLNAPVVAMTQPHDVHVQIETSPARNLKV LKADVLLTASGPAVK
 RITFSPPLPRHMQEALRRLHYVPATKVFLSFRPFWREEHIEGGHSNTDRPSRMIFYPFPREGALLASY
 TWSDAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVVRWAEDQHSQGGFVVQPPALWQTEKDD
 WTPYGRIFYAGEHTAYPHGWVETAVKLSALRAATKINSRKGPSDASPEGHASDMEGQGHVHGVAASSPS
 HDLAKEEGSHPPVQQLSLQNTTHTRTSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6558_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258017

ORF Size: 1767 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_001258017.1](#), [NP_001244946.1](#)

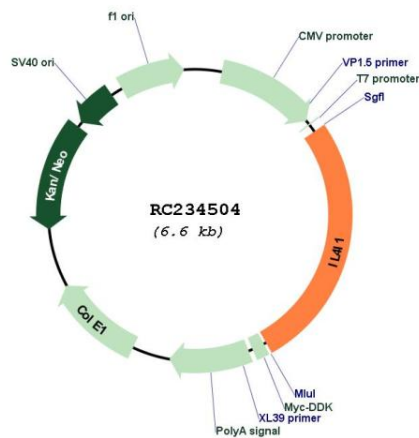
RefSeq Size: 2335 bp

RefSeq ORF: 1770 bp

Locus ID: 259307

UniProt ID: [Q96RQ9](#)
Cytogenetics: 19q13.33
Protein Families: Druggable Genome
Protein Pathways: Alanine, aspartate and glutamate metabolism, Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tryptophan metabolism, Tyrosine metabolism, Valine, leucine and isoleucine degradation
MW: 65.4 kDa
Gene Summary: This gene encodes a secreted L-amino acid oxidase protein which primarily catabolizes L-phenylalanine and, to a lesser extent, L-arginine. The expression of this gene is induced by the cytokine interleukin 4 in B cells. This gene is also expressed in macrophages and dendritic cells. This protein may play a role immune system escape as it is expressed in tumor-associated macrophages and suppresses T-cell responses. This protein also contains domains thought to be involved in the binding of flavin adenine dinucleotide (FAD) cofactor. Multiple transcript variants encoding different isoforms have been found for this gene. Some transcripts of this gene share a promoter and exons of the 5' UTR with the overlapping NUP62 gene. [provided by RefSeq, Jul 2020]

Product images:



Circular map for RC234504