

Product datasheet for **RC234505**

IL4I1 (NM_001258018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_001258018) 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)



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ORF Nucleotide Sequence:

>RC234505 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

RCATGCCAACGATGACTTCTGTCTGGGCTAACCATAAAGGCCATGGGTGCTGAGAGAGCCCCCAGAG
 GCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGG
 AAGGCTGAACGCAGCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGG
 TGGTGACTGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTATTGTGGTTGGCGCTGGTGTGGCCGG
 GCTGGTGGCCCAAGGTGCTCAGCGATGCTGGACACAAGGTACCATCCTGGAGGCAGATAACAGGATC
 GGGGGCCGCATCTTACCTACCGGGACCAGAACATGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGC
 CCAGCTCTCACAGGATCCTCCACAAGCTCTGCCAGGGCCTGGGGCTCACCTGACCAAGTTCACCCAGTA
 CGACAAGAACACGTGGACGGAGGTGCACGAAGTGAAGTGCGCAACTATGTGGTGGAGAAGGTGCCCGAG
 AAGCTGGGCTACGCTTTCGCTCCCAGGAAAAGGGCCACTCGCCGAAGACATCTACCAGATGGCTCTCA
 ACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCAGAAAAGGCGATGAAGAAGTTTGAAAGGCACACGCT
 CTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGACGTGATGTCC
 GAGGATGGCTTCTTATCTCAGCTTCGCCGAGGCCCTCCGGGCCACAGCTGCCTCAGCGACAGACTCC
 AGTACAGCCGCATCGTGGGTGGCTGGGACTGCTGCCGCGCGCTGCTGAGCTCGCTGTCCGGCTTGT
 GCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCACAGTGTGCACGTGCAGATCGAGACTCT
 CCCCCGGCGGGAATCTGAAGGTGCTGAAGGCCACGTGGTGTGCTGACGGCGAGCGGACCGCGCGTGA
 AGCGCATCACCTTCTCGCCGCGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGTGCC
 GGCCACCAAGGTGTTCTAAGCTTCGCGAGGCCCTTCTGGCGGAGGAGCACATTAAGGCGGCCACTCA
 AACACCGATCGCCGTCGCGCATGATTTTCTACCGCCGCGCGGAGGGCGCGCTGCTGCTGCCCTCGT
 ACACGTGGTGGACGCGCGCGCAGCGTTTCGCGGCTTGAAGCCGGAAGAGGCGTTGCGCTTGGCGCTCGA
 CGACGTGGCGGCATTGCACGGCCCTGTCGTGCGCCAGCTCTGGGACGGCACCGGCGTGTCAAGCATTGG
 GCGGAGGACCAGCACAGCCAGGGTGGCTTGTGGTACAGCCGCGCGCTCTGGCAAACCGAAAAGGATG
 ACTGGACGGTCCCTTATGGCCGCATCTACTTTCGCGGCGAGCACACCGCCTACCCGACGGCTGGTGG
 GACGGCGTCAAGTCGGCGCTGCGCGCCCATCAAGTCAACAGCCGGAAGGGGCTGCATCGGACACG
 GCCAGCCCCGAGGGGCACGCATCTGACATGGAGGGGCAGGGGCATGTGCATGGGGTGGCCAGCAGCCCT
 CGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCCAGTCCAAGGCCAGTTATCTCTCCAAACACGAC
 CCACACGAGGACCTCGCAT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234505 protein sequence
 Red=Cloning site Green=Tags(s)

XCPTMTSVLG*P*RPWVLRPPRGSHAPCTSSSSSPSSAWPPRTGRLNAAKTPSRNACRILTMSSCSR
 W*PGGSIGP*SPRG*LWLALVWPGWPPRCSAMLDTRSPSWRQITGSGAASSPTGTRTWAGLGSWEPCAC
 PALTGSSSTSSARAWGST*PSSPSTRTRGRRTK*SCATMWWRRCPRSWATPCVPRKRATRPKTSTRWLS
 TRPSKTSRHAAERR*RSLKGTRSWNIFSGRGT*AGRPCSFWET*CPRMASSISASPRPSGPTAASATDS
 STAASWVAGTCCRARC*ARCPGLCC*TRPWW*PRDRMTCTCRSRPLPRRGI*RC*RPTWCC*RRADRR*
 SASPSRRRCPATCRRRCGGCTTCRPPRCS*ASAGPSGARSTLKAATQTPIARRA*FSTRRRARACCWPR
 TRGRTRRQRSPA*AGKRRCAWRSTTWRHCTGLSCASSGTAPASSVGRRTSTARVALWYSRRRSRGPKRM
 TGRSLMAASTLPASTPPTRTAGWRRRSSRRCAPPSSRSTAGRGLHRTRPAPRGTHL TWRGRGCMGMPAAP
 RMTWQRKKAATLQSKASYLSKTRPTRGPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258018

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_001258018.1](#), [NP_001244947.1](#)

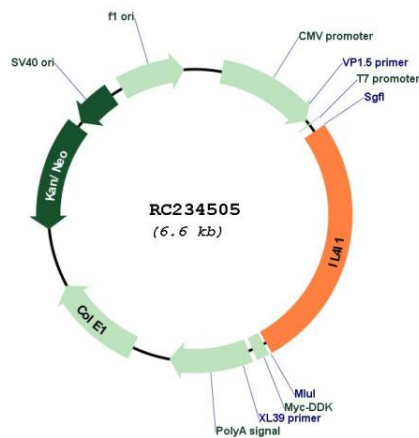
RefSeq Size: 2417 bp

RefSeq ORF: 1770 bp

Locus ID: 259307

UniProt ID:	<u>Q96RQ9</u>
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 RC234505