

Product datasheet for **RC210310**

IL4I1 (NM_152899) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_152899) 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:

>RC210310 representing NM_152899
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCCATTGGCCCTGCACCTCCTCGTCTCGTCCCATCCTCCTCAGCCTGGTGGCCTCCAGGACT
 GGAAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAA
 GGTGGTGACTGGGGCTCAATCGGACCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCC
 GGGCTGGTGGCCGCAAGGTGCTCAGCGATGCTGGACACAAGGTCAACCTCGAGGCAGATAACAGGA
 TCGGGGGCCGATCTTACCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCAT
 GCCCAGCTCTCACAGGATCCTCCACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCACCAG
 TACGACAAGAACCGTGGACGGAGGTGCACGAAGTGAAGTGCAGCAACTATGTGGTGGAGAAGGTGCCCG
 AGAAGCTGGGCTACGCCCTTGCCTCCCAGGAAAAGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCT
 CAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCAGAAAGGGCGATGAAGAAGTTTGAAGGCACACG
 CTCTTGAATATCTTCTCGGGGAGGGAACTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGACGTGATGT
 CCGAGGATGGCTTCTTCTATCTCAGCTTCCGCCAGGCCCTCCGGGCCACAGCTGCCTCAGCGACAGACT
 CAGTACAGCCGCATCGTGGTGGCTGGGACCTGCTGCCGCGCGCTGCTGAGCTCGTGTCCGGGCTT
 GTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCAGATCGAGACCT
 CTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACCGCGGT
 GAAGCGCATCACCTTCTCGCCGCGCTGCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGTG
 CCGGCCACCAAGTGTTCTAAGCTTCCGACGGCCCTTCTGGCGCGAGGAGCACATTGAAGCGGCCACT
 CAAACACCGATCGCCCGTCCGCGATGATTTTCTACCCCGCGCGAGGGCGCGCTGCTGGCTC
 GTACACGTGGTCCGACGCGCGGCGCAGCGTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTC
 GACGACGTGGCGCATTGCACGGCCTGTCTGCGCCAGCTCTGGGACGGCACCGCGCTGTCGAAGCGTT
 GGGCGGAGGACCAGCACAGCCAGGGTGGCTTTGTGGTACAGCCGCGCGCTCTGGCAAACCGAAAAGGA
 TGACTGGACGGTCCCTTATGGCCGATCTACTTTGCCGCGAGCACACCGCTACCCGACGCGTGGGTG
 GAGACGGCGTCAAGTCCGCGCTGCGCGCCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACA
 CGGCCAGCCCCGAGGGGACGCATCTGACATGGAGGGGACGGGCGATGTGCATGGGTGGCCAGCAGCCC
 CTCGATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCCAGTCCAAGGCCAGTTATCTCTCCAAAACAGC
 ACCCACAGGAGCCTCGCAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210310 representing NM_152899
 Red=Cloning site Green=Tags(s)

MAPLALHLLVLPILLSLVASQDWAERSQDPFEKCMQDPDYEQLLKVVVTWGLNRTLKPQRVIVVGAGVA
 GLVAAKVLSDAGHKVITILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSSHRIHLKLCQGLGNLTKFTQ
 YDKNTWTEVHEVKLRNYVVEKVPKLGALRPQEKGHSPEDIYQMALNQALKDLKALGCRKAMKKFERHT
 LLEYLLGEGNLSRPAVQLLDVMSDGGFFYLSFAEALRAHSCLSDRLQYSRIVGGWDLPRALLSSL SGL
 VLLNAPVVAMTQGPVHVQIETSPARNLKVLRKADVLLTASGPAVKRITFSPPLPRHMQEALRRLHYV
 PATKVFLSFRFPWREEHIEGGHSNDRPSRMIFYPPPREGALLASYTWSDAAAAFAGLSREEALRLAL
 DDVAALHGPVVRQLWDGTGVVWRWAEDQHSQGGFVVQPPALWQTEKDDWTVPYGRIFYAGEHTAYPHGWV
 ETAVKSALRAAIKINSRKGASDTSPEGHASDMEGQGHVHGVAASSPHDLAKEEGSHPPVQGLSLQNT
 THRTSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_152899

ORF Size: 1701 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_152899.2](#)

RefSeq Size: 1798 bp

RefSeq ORF: 1704 bp

Locus ID: 259307

UniProt ID: [Q96RQ9](#)

Cytogenetics: 19q13.33

Domains: Amino_oxidase

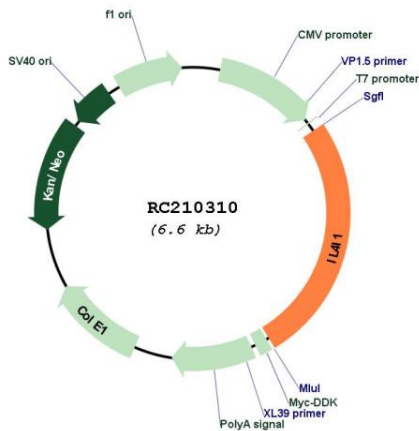
Protein Families: Druggable Genome

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: 60.7 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 RC210310