

Product datasheet for **SC101062**

IL4I1 (NM_152899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_152899) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL4I1
Synonyms:	FIG1; hIL4I1; LAAO; LAO
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC101062 sequence for NM_152899 edited (data generated by NextGen Sequencing)

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ATGGCCCCATTGGCCCTGCACCTCCTCGTCCCTCGTCCCCATCCTCCTCAGCCTGGTGGCC
TCCCAGGACTGGAAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCT
GACTATGAGCAGCTGCTCAAGGTGGTGAACCTGGGGCTCAATCGGACCCTGAAGCCCCAG
AGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGCTGGTGGCCCAAGGTGCTCAGCAG
GCTGGACACAAGTCCACATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCACC
TACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATTGCCAGCTCT
CACAGGATCCTCCACAAGCTCTGCCAGGGCTGGGGCTCAACCTGACCAAGTTCACCCAG
TACGACAAGAACACGTGGACGGAGGTGCACGAAGTGAAGCTGCGCAACTATGTGGTGGAG
AAGGTGCCGAGAAGCTGGGCTACGCCTTGCCTCCCCAGAAAAGGGCCACTCGCCCGAA
GACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCAGA
AAGGCGATGAAGAAGTTTAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAAC
CTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGACGTGATGTCGAGGATGGCTTCTTCTAT
CTCAGCTTCGCCGAGGCCCTCCGGGCCACAGCTGCCTCAGCGACAGACTCCAGTACAGC
CGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCTGCTGAGCTCGCTGTCGGGCTT
GTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCAG
ATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTG
ACGGCGAGCGGACCGGGCTGAAGCGCATCACCTTCTCGCCGCGCTGCCCGCCACATG
CAGGAGGCGCTGCGGAGGCTGCACTACGTGCCGGCCACCAAGGTGTTCTAAGCTTCCGC
AGGCCCTTCTGGCGGAGGAGCACATTGAAGCGGCCACTCAAACACCGATCGCCCGTGC
CGCATGATTTTCTACCCGCCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTGG
TCGGACGCGCGCGCAGCTTTCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTC
GACGACGTGGCGCATTGCACGGGCTGTCGTGCGCCAGCTCTGGGACGGCACCGGCGTC
GTCAAGCGTTGGGCGGAGGACCAGCACAGCCAGGGTGGCTTGTGGTACAGCCGCGCGCG
CTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCGCATCTACTTTGCCGGC
GAGCACACCGCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGCC
GCCATCAAGATCAACAGCCGGAAGGGCCCTGCATCGGACACGGCCAGCCCCGAGGGGCAC
GCATCTGACATGGAGGGGAGGGGCATGTGCATGGGTGGCCAGCAGCCCCTCGCATGAC
CTGGCAAAGGAAGAAGGCAGCCACCCTCCAGTCCAAGGCCAGTTATCTCTCCAAAACAGC
ACCCACACGAGGACCTCGCATTA
    
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Clone variation with respect to NM_152899.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM_152899 unedited

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GATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGGCACACCGCGCTGTCTT
GCTGTACCAAGAGCTGGAGACACCATCTCCACCGAGAGTCATGGCCCCATTGGCCCTG
CACCTCCTCGTCTCGTCCCATCTCCTCAGCCTGGTGGCTCCAGGACTGGAAGGCT
GAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTC
AAGGTGGTGAACCTGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTATTGTGGTTGGC
GCTGGTGTGGCCGGGCTGGTGGCCGCAAGGTGCTCAGCGATGCTGGACACAAGTCCACC
ATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTACCTACCGGGACCAGAACAGC
GGCTGGATTGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCCACAAG
CTCTGCCAGGGCTGGGGCTCAACCTGACCAAGTTCACCCAGTACGACAAGAACACGTGG
ACGGAGGTGCACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTG
GGCTACGCCTTGGTCCNAGGAAAAGGGCCACTCGCCCCGAGACATCTACCAGATGGCT
CTCAACCAGGCCCTCANAGACCTCAAGGCACTGGGCTGCAGAAAGGCGATGAAGAAGTTT
GAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACNNTGAGCCGCGCCGCTG
CAGCTTCTGGGAGACGTGATGTCCCAGATGGCTTCTNTCTATCTCAGCTTCGCCGAGGCC
CTTCGGGNCCACAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGG
GACCTGCTGCCGCGCGCTGCTGAGCTCGCTGTCGGGCTTGTGCTGGTGGACGCGCCC
CGTGTGGCGATGACCCAGGCCNACGATGTGCACGTGCAGATCGAGACTCTN
    
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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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR and coding region compared to variant 2. The resulting isoform (1) contains a distinct and shorter N-terminus, as compared to isoform 2. This transcript contains the first two exons of the upstream and is expressed from a different promoter.</p>