

## Product datasheet for **SC306765**

### **IL4I1 (NM\_172374) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_172374) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC306765 representing NM\_172374.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCAACGATGACTTCTGTCTGGGCTAACCATAAAGGCCATGGTGTCTGAGAGACCCCCAGAGG
CAGCCATGCACCCTGCACCTCCTCGTCCCTCCTCAGCCCTGGTGGCTCCAGGACTGG
AAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTAAG
GTGGTGACCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTATTGTGGTTGGCGCTGGTGTGGCC
GGGCTGGTGGCCGCAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGG
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ATGCCAGCTCTCACAGGATCCTCCACAAGCTCTGCCAGGGCTGGGGCTCAACCTGACCAAGTTACC
CAGTACGACAAGAACACGTGGACGGAGGTGCACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTG
CCCAGAAAGCTGGGCTACGCCTTGGTCCCCAGGAAAAGGGCCACTCGCCGAAGACATCTACCAGATG
GCTCTCAACCAGGCCCTCAAAGACTCAAGGCACTGGGCTGCAGAAAGGGCATGAAGAAGTTTAAAGG
CACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGAC
GTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCCACAGCTGCCTCAGC
GACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCGCTGCTGAGCTCGCTG
TCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCAG
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GGACCGGGCGGTGAAGCGCATCACCTTCTCGCCCGCTGCCCGCCACATGCAGGAGGCGCTGGGGAGG
CTGCACTACGTGCCGGCCACCAAGGTGTTCTTAAGCTTCCGACGGCCCTTCTGGCGCGAGGAGCACATT
GAAGGCGGCCACTCAAACACCGATCGCCCGTCCGCGCATGATTTTTCTACCCGCCCGCGGAGGGCGG
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TTGCGCTTGGCGCTCGACGACGTGGCGGATTGCACGGGCTGTGCTGCCAGCTCTGGGACGGCACCC
GGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAGCCAGGGTGGCTTTGTGGTACAGCCCGCGCGCTC
TGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCGCATCTACTTTGCCGGCGAGCACACCGCC
TACCCGACGGCTGGGTGGAGACGGCGGTCAAGTCCGCGCTGCCGCGCCATCAAGATCAACAGCCGG
AAGGGGCTGCATCGGACACGGCCAGCCCCAGGGGCACGCATCTGACATGGAGGGGAGGGGCATGTG
CATGGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGGACAGCCACCCTCCAGTCCAAGGC
CAGTTATCTCTCAAACACGACCCACAGGACCTCGCATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM\_172374
- Insert Size:** 1770 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_172374.2</u>
<b>RefSeq Size:</b>	2359 bp
<b>RefSeq ORF:</b>	1770 bp
<b>Locus ID:</b>	259307
<b>UniProt ID:</b>	<u>Q96RQ9</u>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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
<b>MW:</b>	65.3 kDa
<b>Gene Summary:</b>	<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 (2) encodes a longer isoform (2). Variants 2, 3 and 4 encode the same protein.</p>