

Product datasheet for **RG234505**

IL4I1 (NM_001258018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL4I1 (NM_001258018) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IL4I1
Synonyms:	FIG1; hIL4I1; LAAO; LAO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234505 representing NM_001258018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAACGATGACTTCTGTCTCTGGGCTAACCATAAAGGCCATGGGTGCTGAGAGAGCCCCCAGAGGC
 AGCCATGCACCCTGCACCTCCTCGTCTCGTCCCATCCTCCTCAGCCTGGTGGCTCCCAGGACTGGAA
 GGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTG
 GTGACCTGGGGCTCAATCGGACCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGC
 TGGTGGCCGCAAGGTGCTCAGCGATGCTGGACACAAGGTACCATCCTGGAGGCAGATAACAGGATCGG
 GGGCCGCATCTTACCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCC
 AGCTCTCACAGGATCCTCCACAAGCTCTGCCAGGGCTGGGGCTCAACCTGACCAAGTTCACCCAGTACG
 ACAAGAACACGTGGACGGAGGTGCACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAA
 GCTGGGCTACGCCTTGCCTCCCCAGGAAAAGGGCCACTCGCCGAAGACATCTACCAGATGGCTCTCAAC
 CAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCAGAAAGGCGATGAAGAAGTTTAAAGGCACACGCTCT
 TGGAAATCTTCTCGGGAGGGGAACCTGAGCCGGCCGGCCGTGCAGCTTCTGGGAGACGTGATGTCGA
 GGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCCACAGCTGCCTCAGCGACAGACTCCAG
 TACAGCCGCATCGTGGGTGGTGGGACCTGCTGCCGCGCGCGTCTGAGCTCGCTGTCCGGCTTGTGC
 TGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCAGATCGAGACCTCTCC
 CCCGGCGCGGAATCTGAAGGTGCTGAAGCCGACGTGGTGTCTGCTGACGGCGAGCGGACCGCGGTGAAG
 CGCATCACCTTCTCGCCCGCGTGCCTCCACATGCAGGAGCGCTGCGGAGGCTGACTACGTGCCCG
 CCACAAGGTGTTCTTAAGCTTCCGAGGCCCTTCTGGCGGAGGAGCACATTGAAGGCCCAACAA
 CACCGATCGCCCGTCCGCGATGATTTTCTACCCGCCCGCGCGAGGGCGCGCTGCTGGCCTCGTAC
 ACGTGGTTCGACGCGCGGCGAGCGTTCCGCGGCTTGGCCGGAAGAGGCGTTGCGCTTGGCGCTCGACG
 ACGTGGCGGCAATTGCACGGGCTGTCTGCGCCAGCTCTGGGACGGCACCGGCGTCAAGCGTTGGGC
 GGAGGACCAGCACAGCCAGGGTGGCTTTGGTACAGCCGCCGCGCTCTGGCAAACGAAAAGGATGAC
 TGGACGGTCCCTTATGGCCGCATCTACTTGGCGGAGCACACCGCCTACCCGCACGGCTGGTGGAGA
 CGGCGGTCAAGTCGGCGCTGCGCGCCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGC
 CAGCCCCGAGGGGACGCATCTGACATGGAGGGGACGGGCGATGTGCATGGGGTGGCCAGCAGCCCTCG
 CATGACCTGGCAAAGGAAGAAGGCACCCCTCCAGTCAAGGCCAGTTATCTCTCAAACACGACCC
 ACACGAGGACCTCGCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234505 representing NM_001258018
 Red=Cloning site Green=Tags(s)

MPNDDFCPLTIKAMGAERAPQRQPCTLHLLVLPILLSLVSQDWAERSQDPFEKCMQDPDYEQLLKV
 VTWGLNRTLKPQRVIVVGAGVAGLVAAKVLS DAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMP
 SSHRILHKLQGLGLNLTKFTQYDKNTWTEVHEVKLRNYVVEKVPEKLGALRPQEKGHSPEDIYQMALN
 QALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPAVQLLDVMSDGFYLSFAEALRAHSCLSDRLQ
 YSRIVGGWDLPRALLSSL SGLVLLNAPVVAMTQPHDVHVQIETSPARNLKV LKADVLLTASGPAVK
 RITFSPPLPRHMQEALRRLHYVPATKVFLSFRFPFWREEHIEGGHSNTDRPSRMIFYPPPREGALLASY
 TWSDAAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVVRWAEDQHSQGGFVVQPPALWQTEKDD
 WTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKG PASDTASPEGHASDMEGQGHVHGVA SPS
 HDLAKEEGSHPPVQQLSLQNTHTTRTSH

TRTRPLE – GFP Tag – V

Restriction Sites:

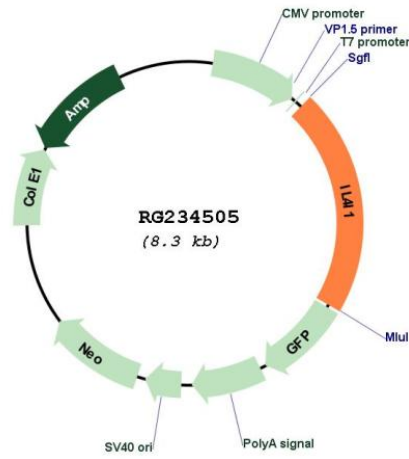
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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_001258018.2
RefSeq Size:	2417 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
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]