

Product datasheet for **SC125234**

IL2 (NM_000586) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL2 (NM_000586) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL2
Synonyms:	IL-2; lymphokine; TCGF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125234 sequence for NM_000586 edited (data generated by NextGen Sequencing) ATGTACAGGATGCAACTCCTGTCTTGCATTGCACTAAGTCTTGCCTTGTACAAACAGT GCACCTACTTCAAGTTCTACAAAGAAAACACAGCTACAACCTGGAGCATTTACTTCTGGAT TTACAGATGATTTTGAATGGAATTAATAATTACAAGAATCCCAAACCTACCAGGATGCTC ACATTTAAGTTTTACATGCCAAGAAGGCCACAGAAGTAAACATCTTCAGTGTCTAGAA GAAGAAGTCAAACCTCTGGAGGAAGTGCTAAATTTAGCTCAAAGCAAAAACCTTCACTTA AGACCCAGGGACTTAATCAGCAATATCAACGTAATAGTTCTGGAAGTAAAGGGATCTGAA ACAACATTCATGTGTGAATATGCTGATGAGACAGCAACCATTGTAGAATTTCTGAACAGA TGGATTACCTTTTGTCAAAGCATCATCTCAACACTGACTTGA Clone variation with respect to NM_000586.3 114 g=>t



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000586 unedited
 GACTCACTATAGGGCGGCCGGAATTCCTGCCACAATGTACAGGATGCAACTCCTGTCT
 TGCATTGCACTAAGTCTTGCACTTGTCAAAACAGTGCACCTACTTCAAGTTCTACAAAG
 AAAACACAGCTACAACGGAGCATTCTTCTGGATTTACAGATGATTTTGAATGGAATT
 AATAATTACAAGAATCCCAAACCTACCAGGATGCTCACATTTAAGTTTTACATGCCCAAG
 AAGGCCACAGAAGTAAACATCTTCAGTGTCTAGAAGAAGAACTCAAACCTCTGGAGGAA
 GTGCTAAATTTAGCTCAAAGCAAAAACCTTCACTTAAGACCCAGGGACTTAATCAGCAAT
 ATCAACGTAATAGTTCTGGAACTAAAGGATCTGAAACAACATTCATGTGTGAATATGCT
 GATGAGACAGCAACCATTGTAGAATTTCTGAACAGATGGATTACTTTTGTCAAAGCATC
 ATCTCAACACTGACTTGATAATTAAGTGCTTCCCACTTAAAACATATCAGGCCTCGACTC
 TAGATTGCGGCCGCGGTATANGCTGTTCTGAACAGATTCGGGTGGGATCCTTGTGAC
 CCTTCCCATGGCGCTTTCGGGCCCGGAGTAGTCTACTCAGGGCACACAACCTGGCCATA
 AAAATAAATGGCACAATTTGCCGCGAGAGGGCCTCTAAAATATAGGGGGGGGGGGGG
 GGGGGGGGGGGCGCTTGGAAACACCGGTGGGCCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000586 unedited
 ACCCATGGATCCTGGGCTGATGGCACTTNCAGGNCCAGNAAAGCACTGGGGNAGGGTCA
 CAGGGCATGCCACCCGGTTCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGAG
 TCGAGGCTGATATGTTTTAAGTGGGAAGCACTTAATTATCAAGTCAGTGTGAGATGAT
 GCTTTGACAAAAGGTAATCCATCTGTTTCAGAAATCTACAATGGTTGCTGTCTCATCAGC
 ATATTCACACATGAATGTTGTTTCAGATCCCTTAGTTCCAGAATTACGTTGATATT
 GCTGATTAAGTCCCTGGGTCTTAAGTGAAGTTTTTGTCTTGAGCTAAATTTAGCACTTC
 CTCCAGAGGTTTGTAGTTCTTCTTAGACTGAAGATGTTTCAGTTCTGTGGCCTTCTT
 GGGCATGTAAAACCTAAATGTGAGCATCCTGGTGAGTTTGGGATTCTTGTAAATTAAT
 TCCATTCAAAATCATCTGTAATCCAGAAGTAAATGCTCCAGTTGTAGCTGTGTTTTCTT
 TGTAGAACTTGAAGTAGGTGCACTGTTTGTGACAAGTGAAGACTTAGTGCAATGCAAGA
 CAGGAGTTGCATCCTGTACATTGTGGCAGGGAATTCGCGGCCGCCCTATAGTGAGTCGTA
 TTACANAATTCTGACGGTTCCTAAACGAGCTCTGCTTATATAGACCTCCACCGTACAC
 GCCTACCGCCATTTGCGTCAACGGNCGGGGTTATTACGACATTTTGGAAAGTCNNGTT
 GATTTTGGGTGCAAAACANACTCCCATTTGACGTCAATGGGGTGGAGACTTGGAAATCCCC
 GTGAGTCAAACCGCTATCCACGCCCATTTGGTGTACTGGCAACCCGCATCACCATGGTAA
 TAGCGATGACTATACGTAGATTACTGGCAT

Restriction Sites:

Please inquire

ACCN:

NM_000586

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).

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_000586.2 , NP_000577.2
RefSeq Size:	1047 bp
RefSeq ORF:	462 bp
Locus ID:	3558
UniProt ID:	P60568
Cytogenetics:	4q27
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus
Gene Summary:	<p>This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9, IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4+ and CD8+ T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and IL7. The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq, Sep 2020]</p>