

## Product datasheet for SC124111

### IL12A (NM\_000882) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IL12A (NM_000882) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL12A
Synonyms:	CLMF; IL-12A; NFSK; NKSF1; P35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC124111 representing NM_000882. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGCCCCCTGGGTCAGCCTCCAGCCACCGCCCTCACCTGCCGCGGCCACAGGTCTGCATCCAGCG
GCTCGCCCTGTGTCCCTGCAGTGCCGGCTCAGCATGTGTCCAGCGCGCAGCCTCCTCCTGTGGCTACC
CTGGTCTCCTGGACCACCTCAGTTTGGCCAGAAACCTCCCCGTGGCCACTCCAGACCCAGGAATGTTC
CCATGCCTTCACCACTCCAAAACCTGCTGAGGGCCGTCAGCAACATGCTCCAGAAGGCCAGACAAACT
CTAGAATTTTACCCTTGCACTTCTGAAGAGATTGATCATGAAGATATCACAAAAGATAAAACCAGCACA
GTGGAGGCTGTTTACCATTGGAATTAACCAAGAATGAGAGTTGCCTAAATTCAGAGAGACCTCTTTC
ATAACTAATGGGAGTTGCCTGGCCTCCAGAAAGACCTCTTTTATGATGGCCCTGTGCCTTAGTAGTATT
TATGAAGACTTGAAGATGTACCAGTGGAGTTCAGACCATGAATGCAAAGCTTCTGATGGATCCTAAG
AGGCAGATCTTTCTAGATCAAAACATGCTGGCAGTTATTGATGAGCTGATGCAGGCCCTGAATTTCAAC
AGTGAGACTGTGCCACAAAAATCCTCCCTTGAAGAACCGGATTTTATAAACTAAAAATCAAGCTCTGC
ATACTTCTCATGCTTTCAGAATTCGGGCACTGACTATTGATAGAGTGATGAGCTATCTGAATGCTTCC
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja1948_a11.zip">https://cdn.origene.com/chromatograms/ja1948_a11.zip</a>
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_000882
Insert Size:	762 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_000882.2](#)

**RefSeq Size:** 1444 bp

**RefSeq ORF:** 762 bp

**Locus ID:** 3592

**UniProt ID:** [P29459](#)

**Cytogenetics:** 3q25.33

**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus

**MW:** 28.3 kDa

**Gene Summary:**

This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.