

# Product datasheet for SC329589

## IL7 (NM\_001199886) Human Untagged Clone

## **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	IL7 (NM_001199886) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL7
Synonyms:	IL-7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	<pre>&gt;SC329589 representing NM_001199886. Blue=Insert sequence Red=Cloning site Green=Tag(s)</pre>
	ATGTTCCATGTTTCTTTTAGGTATATCTTTGGACTTCCTCCCCTGATCCTTGTTCTGTTGCCAGTAGCA TCATCTGATTGTGATATTGAAGGTAAAGATGGCAAACAATATGAGAGTGTTCTAATGGTCAGCATCGAT CAATTATTGGACAGCATGAAAGAAATTGGTAGCAATTGCCTGAATAATGAATTTAACTTTTTTAAAAGA CATATCTGTGATGCTAATAAGGTTAAAGGAAGAAAAACCAGCTGCCCTGGGTGAAGCCCAACCAA
<b>Restriction Sites:</b>	Sgfl-Mlul
Plasmid Map:	
	SV40 ori

SC329589 (5.3 kb)

Cole1

MluI Myc-DDK XL39 primer

PolyA signal

ACCN:

NM\_001199886



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<b>ORIGENE</b> IL7 (NM_001199886) Human Untagged Clone – SC329589	
Insert Size:	402 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).
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001199886.1</u>
RefSeq Size:	1957 bp
RefSeq ORF:	402 bp
Locus ID:	3574
UniProt ID:	<u>P13232</u>
Cytogenetics:	8q21.13
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
MW:	15.2 kDa

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### CRIGENE IL7 (NM\_001199886) Human Untagged Clone – SC329589

Gene Summary: The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a prepro-B cell growth-stimulating factor. IL7 is found to be a cofactor for V(D)] rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. IL7 plays an essential role in lymphoid cell survival, and in the maintenance of naive and memory T cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their presence in normal tissues has not been confirmed. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection can be a potent inducer of proinflammatory cytokines and chemokines which may defend against the infection, but may also mediate destructive lung injury. Elevated serum IL7 levels, together with several other circulating cytokines and chemokines, has been found to be associated with the severity of Coronavirus Disease 19 (COVID-19). [provided by RefSeq, Jul 2020]

Transcript Variant: This variant (2) lacks an in-frame exon in the 3' coding region, compared to variant 1, which results in a shorter isoform (2) compared to isoform 1.

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