

Product datasheet for **SC300144**

IL5 (NM_000879) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL5 (NM_000879) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL5
Synonyms:	EDF; IL-5; TRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000879 edited CAAACGCAGAACGTTTCAGAGCCATGAGGATGCTTCTGCATTTGAGTTTGCTAGCTCTTG GAGCTGCCTACGTGTATGCCATCCCCACAGAAATCCCACAAGTGCATTGGTGAAAGAGA CCTTGGCACTGCTTTCTACTCATCGAACTCTGCTGATAGCCAATGAGACTCTGAGGATTC CTGTTCCCTGTACATAAAAATCACCAACTGTGCACTGAAGAAATCTTTCAGGGAATAGGCA CACTGGAGAGTCAAAGTGTGCAAGGGGGTACTGTGAAAGACTATTCAAAAATTGTCCT TAATAAGAAATACATTGACGGCCAAAAAAGTGTGGAGAAGAAAGACGGAGAGTAA ACCAATTCCTAGACTACCTGCAAGATTTCTTGGTGAATGAACACCGAGTGGATAATAG AAAGTTGAGACTAACTGGTTGTTGCAGCCAAAGAT
Restriction Sites:	Please inquire
ACCN:	NM_000879
Insert Size:	500 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000879.2.
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).



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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_000879.2 , NP_000870.1
RefSeq Size:	816 bp
RefSeq ORF:	405 bp
Locus ID:	3567
UniProt ID:	P05113
Cytogenetics:	5q31.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Allograft rejection, Asthma, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway, Hematopoietic cell lineage, Jak-STAT signaling pathway, T cell receptor signaling pathway
Gene Summary:	<p>This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene is located on chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2 . This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31. [provided by RefSeq, Jul 2013]</p>