

Product datasheet for **SC119807**

IL8 (CXCL8) (NM_000584) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IL8 (CXCL8) (NM_000584) Human Untagged Clone
Tag:	Tag Free
Symbol:	IL8
Synonyms:	GCP-1; GCP1; IL8; LECT; LUCT; LYNAP; MDNCF; MONAP; NAF; NAP-1; NAP1; SCYB8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000584 edited
 GAATTCGGCACGAGGCAGCAGAGCACACAAGCTTCTAGGACAAGAGCCAGGAAGAAACCA
 CCGGAAGGAACCATCTCACTGTGTGTAACATGACTTCCAAGCTGGCCGTGGCTCTTTG
 GCAGCCTTCTGATTTCTGCAGCTCTGTGTGAAGTGCAGTTTTGCCAAGGAGTGCTAAA
 GAACTTAGATGTCAGTGCATAAAGACATACTCCAAACCTTTCCACCCAAATTTATCAA
 GAACTGAGAGTGATTGAGAGTGGACCACACTGCGCCAACACAGAAATTATTGTAAGCTT
 TCTGATGGAAGAGAGCTCTGTCTGGACCCCAAGGAAAACCTGGTGCAGAGGGTTGTGGAG
 AAGTTTTTTGAAGAGGGCTGAGAATTCATAAAAAAATTCATTCTCTGTGGTATCCAAGAAT
 CAGTGAAGATGCCAGTAAACTTCAAGCAAATCTACTTCAACACTTCATGTATTGTGTGG
 GTCTGTTGTAGGGTTGCCAGATGCAATACAAGATTCTGGTTAAATTTGAATTTTCAGTAA
 ACAATGAATAGTTTTTCATTGTACCATGAAATATCCAGAACATACTTATATGTAAGTAT
 TATTTATTTGAATCTACAAAAACAACAATAATTTTTAAATATAAGGATTTTCTAGAT
 ATTGACACGGGAGAATATACAAATAGCAAATTTGAGGCCAAGGGCCAAGAGAATATCCGAA
 CTTTAATTTTCAGGAATTGAATGGGTTTGTAGAATGTGATATTTGAAGCATCACATAAAA
 ATGATGGGACAATAAATTTTGCATAAAGTCAAATTTAGCTGGAATCCTGGATTTTTTT
 CTGTTAAATCTGGCAACCTAGTCTGCTAGCCAGGATCCACAAGTCCTTGTCCACTGTG
 CCTTGGTTTTCTCCTTTATTTCTAAGTGGAAAAAGTATTAGCCACCATCTTACCTCACAGT
 GATGTTGTGAGGACATGTGGAAGCACTTTAAGTTTTTTCATCATAACATAAATATTTTC
 AAGTGTAACTTATTAACCTATTTATTTATGTATTTTAAAGCATCAAATATTTGTG
 CAAGAATTTGGAAAAATAGAAGATGAATCATTGATTGAATAGTTATAAAGATGTTATAGT
 AAATTTATTTTATTTAGATATTAATGATGTTTTATTAGATAAATTTCAATCAGGGTTT
 TTAGATTAACAACAACAATTTGGGTACCCAGTTAAATTTTTCATTTTCAGATATACAACA
 AATAATTTTTTAGTATAAGTACATTATTGTTTATCTGAAATTTTAAATGAACTAACAACT
 CTAGTTTGATACTCCAGTCTTGTCTATTGCCAGCTGTGTTGGTAGTGTGTGTTGAATTA
 CGGAATAATGAGTTAGAATTTAAAACAGCCAAAACCTCCACAGTCAATATTAGTAATTT
 CTTGCTGGTTGAAACTTGTTTATATGTACAAATAGATTCTTATAATATTATTTAAATGA
 CTGCATTTTTAAATACAAGGCTTTATTTTTAACTTTAAGATGTTTTTATGTGCTCTCC
 AAATTTTTTTTACTGTTTCTGATTGTATGGAAATATAAAAGTAAATATGAAACATTTAA
 ATATAATTTGTTCAAAAGCAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000584 unedited
 ACTCACTATAGGGCGCCGCAATTCGGCACGAGGCAGCAGAGCACACAAGCTTCTAGGA
 CAAGAGCCAGGAAGAAACCACCGGAAGGAACCATCTCACTGTGTGTAACATGACTTCCA
 AGCTGGCCGTGGCTCTCTTGGCAGCCTTCTGATTTCTGCAGCTCTGTGTGAAGTGCAG
 TTTTGGCAAGGAGTGCTAAAGAAGCTTAGATGTCAGTGCATAAAGACATACTCCAAACCTT
 TCCACCCCAAATTTATCAAAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 CAGAAATTTATTGTAAGCTTTCTGATGGAAGAGAGCTCTGTCTGGACCCCAAGGAAAAC
 GGGTGCAGAGGGTTGTGGAGAAGTTTTTGAAGAGGGCTGAGAATTCATAAAAAAATTCAT
 TCTCTGTGGTATCCAAGAATCAGTGAAGATGCCAGTAAAACCTTCAAGCAAATCTACTTCA
 ACACTTCAATGATTGTGTGGTCTGTTGTAGGGTTGCCAGATGCAATACAAGATTCCTGG
 TTAATTTGAATTTTCAGTAAACAATGAATAGTTTTTCATTGTACCATGAAATATCCAGAA
 CATACTTATATGTAAGTATTATNTATTTGAATCTACAAAAACACANNATTTTTTAA
 TATAAGGATTTTCTAGATATTGCACGGGAGATATACAATAGCANAATTGAGGCCAG
 GGNCCAGAGGATATCCCGAACTTTATTNCAGGAANTGAATGGNTTGTAGAAATGTGATAT
 TTGAAGCATACATANAATGATGGGACANTAAATTTGCCATAAGTCAAATAGCTGGAATC
 TGNATNTTTTTCTGTAATCTGCACCCNTATCTGCTAGCCAGATCCACAGTCTTGTGCC
 ACTGGGCNTGGTNTCCTTTATNCTAGNGGAAAAGTATANCCACCATCTACTNACATNG
 ATGTGGGAAGACATGTGAAGCTTNTAGTTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000584 unedited ACCGCGGCCGCAATCNANAGTCGAGTTTTTTTTTTTTTTTTTTTGGCTTTGACAACAAATTA TATTTTAAATGTTTCATATTTACTTTTATATTTCCATACAATCAGAAACAGTAAAAAAA TTTGGAGAGCACATAAAAAACATCTTAAAGTTAAAAATATAAAGCCTTGTATTTAAAAATG CAGTCATTTAAATAATATTATAAGAATCTATTTGTACATAATAACAAGTTTCAACCAGC AAGAAATTAATAATTTGACTGTGGAGTTTTGGCTGTTTAATAGTTCTAACTCATTATT CCGTAATTCACACAGCACTACCAACACAGCTGGCAATGACAAGACTGGGAGTATCAAAC TAGGATTGTTAGTTCAATTAATAATTTTCCAGATAAAACAATAATGACTTATACTAAAAAATT ATTTGTTGTATATCTGAAATGAAAATTTAACTGGGTACCCAATTGTTTGTGTTTAAATC TAAAAACCCTGATTGAAATTTATCTAATAAAACATCATTAAATATCTAAAATAAAATAAA TTTACTATAACATCTTTATAACTATTCAATCAATGCATCATCTTCTATTTTTTCAAACCT CTTGCACAAATATTTGATGCCTAAATTAATCCCTAACTAATAAATTGGCTGATAAAGCTA CACCTTAAAAATAATTTATGTTATGGATGAAAAAACTTAAAGTGCTTACACCTGGGCTCA CCACATACCTGCGGAGGAAAAAGCGTGCCTAATACTTTTCCCCTTAGAAAAAAGGAAAAC CCGGGCTCATGGGAACAAGACCTGGGGTTCCTGGCTTACAACCCGGGTGGCCATATTACC GCACAACCCGGGATGCCAGCTTATTGGCCCTCGGACGAATTCTGCGCCCTCTTTATGTG GGCCCGGACCGCCTTCGCACGACCCTTGCCACCGTCTTTACTGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_000584
Insert Size:	1690 bp
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 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:	<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_000584.2 , NP_000575.1
RefSeq Size:	1666 bp

RefSeq ORF:	300 bp
Locus ID:	3576
UniProt ID:	P10145
Cytogenetics:	4q13.3
Domains:	IL8
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Bladder cancer, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of the CXC chemokine gene family form a gene cluster in a region of chromosome 4q. [provided by RefSeq, May 2020]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>