

Product datasheet for SC119137

IP10 (CXCL10) (NM_001565) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IP10 (CXCL10) (NM_001565) Human Untagged Clone
Tag:	Tag Free
Symbol:	IP10
Synonyms:	C7; crg-2; gIP-10; IFI10; INP10; IP-10; mob-1; SCYB10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119137 sequence for NM_001565 edited (data generated by NextGen Sequencing)

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ATGAATCAAACCTGCCATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAA
GGAGTACCTCTCTAGAACTGTACGCTGTACCTGCATCAGCATTAGTAATCAACCTGTT
AATCCAAGGTCTTTAGAAAACTTGAAATTATTCTGCAAGCCAATTTTGTCCACGTGTT
GAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAG
GCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAA
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Clone variation with respect to NM_001565.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001565 unedited NTAAGGTTCCGTTTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGATATT CTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATGAATCAAACCTGCCATTCTGAT TTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTCTCTAGAACTGT ACGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACT TGAAATTATTCTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAA GAAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGC AGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAAACAGAGGGGAGCAAATCGATGCA GTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCATCACTTCCCTACATGGAGTA TATGTCAAGCCATAATTGTTCTTGTGAGTTGACACTAAAAGGTGACCAATCATGGTC ACCAAATCAGCTGCTACTACTCCTGTAGGAAGATTAATGTTTCATCATCCTAAGCTATTCA GTAATAACTCTACCCTGGCACTATAATGTAAGCTCTACTGAGGTGCTATGTTCTTGTG ATGTTCTGACCCTGCTTCAAATATTTCCCTCACCTTTCCCATCTTCCAAGGGTATAAGGA ATCTTTCTGCTTTGGGGTTTATCAGAATCTCAGAATCTCAAATAACTAANAGGTATGCA ATCAAATCTGCTTTTTTAAGAATGCTCTTACTTCATGGACTTNCCTGCCATCCCTCCA AGGGGCCCAAATCTTTTCAAGTGGCTACCTACATACAATTCAAAACACATACAGG
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001565 unedited CCGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCTTAGTTATAAATTAATTT ATTAACCTTTTGGTCTTTCAACATTTAGATAGTCTTTCTTAATATTTCCAGGAGAGTACC TCATTTTTATTTTAAAAACCATTACACATTTATCTTATGTAACATGCAGAGCATATAT CTATCTGTATTTTTAAAAATTTCTGTACTCATTGATACATAGTACTTAATTACATGTT ATTCCATGTACTGAAAACAATATAGGAAATATATACATCTAAGACTTCTACTTTGTAC AGTCTTTTCAATTAATAAGAATACTTACACATACATTTTTCAGATATTTCTACCTTCCTGTA TGTGTTTGGAAATTGTATGTAGGTAGCCACTGAAAGAATTTGGGCCCTTGGGAGGATGGC AGTGGAAGTCCATGAAGTAAAGAGCATTCTTTAAAAAGCAGATTTGATTGCATACCTTTT AGTTATTTGAGATTCTGAGAATTCTGATAAACCCCAAAGCAGAAAGATTCCTTATACCCT TGGAAAGTGGGAAAGGTGAGGAAATATTTGAAGCAGGGTACAGAACATNCACTAAGAACA TAGCCCCCTCAGTAGAAGCTTACATTATANGTGCCAGGGTTAGAGTTATTACTGAATAGC TTAGGACGATGAACATTAATCTTTCTACAGGAGTAGTAACCGCTGATTTGGGTGACCATG ATTTGGGCCCTTTTAAATGTACCTGCAAACTAAAACAATTTGGCTTGACATACCCTCCC TGTCGGGAAATGATGGGAAAAGGCACCCTTTGTGTGGTCTTCCCTGGAACCCCTGGCTC AATTTGGCCCCCTCCGGTTAAGGGAAACCTTTACACCTCTCCTGCTAACGGCTCCCAA AAATCTTGAAGCCCTCAATTTGGATAAACATCCTTTATCCCCTTTTGTATGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001565
Insert Size:	1140 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001565.1 , NP_001556.1
RefSeq Size:	1172 bp

RefSeq ORF:	297 bp
Locus ID:	3627
UniProt ID:	P02778
Cytogenetics:	4q21.1
Domains:	IL8
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	This antimicrobial gene encodes a chemokine of the CXC subfamily and ligand for the receptor CXCR3. Binding of this protein to CXCR3 results in pleiotropic effects, including stimulation of monocytes, natural killer and T-cell migration, and modulation of adhesion molecule expression. This gene may also be a key regulator of the 'cytokine storm' immune response to SARS-CoV-2 infection. [provided by RefSeq, Sep 2020]