

Product datasheet for **SC320418**

GRO beta (CXCL2) (NM_002089) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRO beta (CXCL2) (NM_002089) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRO beta
Synonyms:	CINC-2a; GRO2; GROb; MGSA-b; MIP-2a; MIP2; MIP2A; SCYB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002089 edited
 GCCACAGGCAGCTCCTTGCCAGCTCTCCTCCTCGCACAGCCGCTCGAACCGCCTGCTGAG
 CCCCATGGCCCGCGCCACGCTCTCCGCCCCCCAGCAATCCCCGGCTCCTGCGGGTGCC
 GCTGCTGCTCCTGCTCCTGGTGGCCGCCAGCCGCGCGCAGCAGGAGCGCCCTGGCCAC
 TGAAGTGCCTGCCAGTCTTGCAGACCCTGCAGGGAATTCACCTCAAGAACATCCAAAG
 TGTGAAGGTGAAGTCCCCCGGACCCCACTGCGCCCAAACCGAAGTCATAGCCCACTCAA
 GAATGGGCAGAAAAGCTTGTCTCAACCCCGCATCGCCCATGGTTAAGAAAATCATCGAAAA
 GATGCTGAAAAATGGCAAATCCAACCTGACCAGAAGGAAGGAGGAAGCTTATTGGTGGCTG
 TTCCTGAAGGAGGCCCTGCCCTTACAGGAACAGAAGAGGAAAGAGAGACACAGCTGCAGA
 GGCCACCTGGATTGCGCCTAATGTGTTGAGCATCACTTAGGAGAAGTCTTCTATTTATT
 TATTTATTTATTTATTTATTTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT
 AAATAAGGTTATGATTGAATCTACTTGCACACTCTCCATTATATTTATTGTTTATTTTAA
 GGTCAAACCCAAGTTAGTTCAATCCTGATTCATATTTAATTTGAAGATAGAAGGTTTGCA
 GATATTCTCTAGTCATTTGTTAATTTCTTCGTGATGACATATCACATGTCAGCCACTG
 TGATAGAGGCTGAGGAATCCAAGAAAATGGCCAGTAAGATCAATGTGACGGCAGGGAAAT
 GTATGTGTGCTATTTTGTAACTGTAAGATGAATGTCAGTTGTTATTTATTGAAATGAT
 TTCACAGTGTGTGGTCAACATTTCTCATGTTGAAGCTTTAAGAACTAAAAATGTTCTAAAT
 ATCCCTTGGACATTTTATGTCTTTCTTGTAAAGGCATACTGCCTTGTGTTAATGTTAATTAT
 GCAGTGTTCCTCTGTGTTAGAGCAGAGAGGTTTCGATATTTATTGATGTTTTCACAAA
 GAACAGGAAAATAAAATATTTAAAAATAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_002089
Insert Size:	1100 bp



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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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_002089.1</u> , <u>NP_002080.1</u>
RefSeq Size:	1110 bp
RefSeq ORF:	324 bp
Locus ID:	2920
UniProt ID:	<u>P19875</u>
Cytogenetics:	4q13.3
Domains:	IL8
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway
Gene Summary:	This antimicrobial gene is part of a chemokine superfamily that encodes secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CXC subfamily, is expressed at sites of inflammation and may suppress hematopoietic progenitor cell proliferation. [provided by RefSeq, Sep 2014]