

Product datasheet for **RG208107**

CXCL16 (NM_022059) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CXCL16 (NM_022059) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CXCL16
Synonyms: CXCLG16; SR-PSOX; SRPSOX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208107 representing NM_022059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGGGAGTCAGAGCGAGGTGGCTCCATCCCCGCAGAGTCCGCGGAGCCCCGAGATGGGACGGGACT
 TCGCGCCCGGTCCCGCTGCTCCTGCTCCTGCTTCTGCTCCTGCTGGTGTACCTGACTCAGCCAGGCAA
 TGGCAACGAGGGCAGCGTCACTGGAAGTTGTTATTGTGGTAAAAGAATTTCTTCCGACTCCCCGCCATCG
 GTTCAGTTCATGAATCGTCTCCGAAACACCTGAGAGCTTACCATCGGTGTCTATACTACACGAGGTTCC
 AGCTCCTTTCCTGGAGCGTGTGTGGAGGCAACAAGGACCCATGGGTTCAGGAATTGATGAGCTGTCTTGA
 TCTCAAAGAATGTGGACATGCTTACTCGGGATTGTGGCCACCAGAAGCATTACTTCCCTACCAGCCCC
 CCAACTTCTCAGGCCTCAGAGGGGGCATCTTCAGATATCCACACCCTGCCAGATGCTCCTGTCCACCT
 TGCAGTCCACTCAGCGCCCCACCCTCCCAGTAGGATCACTGTCCTCGGACAAAGAGCTCACTCGTCCCAA
 TGAAACCACCAATTCACACTGCGGGCCACAGTCTGGCAGTTGGGCCTGAGGCTGGGAGAACCAGAAGCAG
 CCGGAAAAAATGCTGGTCCCACAGCCAGGACATCAGCCACAGTGCCGGTCTGTGCCTCCTGGCCATCA
 TCTTCATCCTCACCGCAGCCCTTTCCTATGTGCTGTGCAAGAGGAGGGGGCAGTCACCGCAGTCCCT
 TCCAGATCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTAATACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208107 representing NM_022059
 Red=Cloning site Green=Tags(s)

```

MSGSQSEVAPSPQSPRSPENGRDLRPGSRVLLLLLLLLL VYLTQPGNGNEGSVTGSCYCGKRISSDSPPS
VQFMNRLRKHLRAYHRCLYYTRFQLLSWSVCGGNKDPWVQELMSCLDLKECGHAYSGIVAHQKHLPTSP
PTSQASEGASSDIHTPAQMLLSTLQSTQRPTLPVGLSSDKELTRPNETTIHTAGHSLAVGPEAGENQKQ
PEKNAGPTARTSATVPVLCLLAIIIFILTAALSYVLCRRRRGQSPQSSPDLPVHYIPVAPDSNT
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_022059

ORF Size: 819 bp

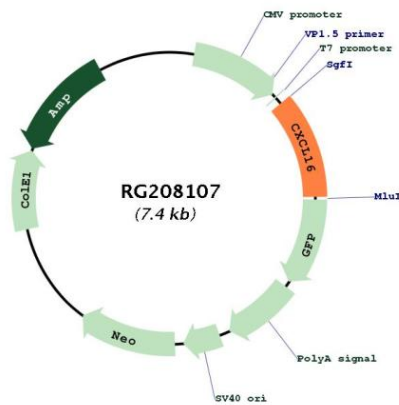
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

- 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:**
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_022059.1](#), [NP_071342.1](#)
- RefSeq Size:** 2249 bp
- RefSeq ORF:** 822 bp
- Locus ID:** 58191
- UniProt ID:** [Q9H2A7](#)
- Cytogenetics:** 17p13.2
- Protein Families:** Druggable Genome, Secreted Protein, Transmembrane
- Protein Pathways:** Chemokine signaling pathway, Cytokine-cytokine receptor interaction
- Gene Summary:** Acts as a scavenger receptor on macrophages, which specifically binds to OxLDL (oxidized low density lipoprotein), suggesting that it may be involved in pathophysiology such as atherogenesis (By similarity). Induces a strong chemotactic response. Induces calcium mobilization. Binds to CXCR6/Bonzo.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208107