

Product datasheet for **MG227145**

Cxcl12 (NM_021704) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cxcl12 (NM_021704) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cxcl12
Synonyms: PB; Pbsf; PBSF/SD; Scyb1; Scyb12; Sdf; SDF-; Sdf1; TLS; Tlsf; TP; Tpar1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227145 representing NM_021704
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGCCAAGGTCGTCGCCGTGCTGGCCCTGGTGTGGCCGCTCTGCATCAGTGACGGTAAACCAG
 TCAGCCTGAGCTACCGATGCCCTGCCGGTCTTCGAGAGCCACATCGCCAGAGCCAACGTCAAGCATCT
 GAAAATCCTCAACTCCAACTGTGCCCTTCAAGATTGTTGCACGGCTGAAGAACAACAACAGACAAGTG
 TGCATTGACCCGAAATTAAGTGGATCCAAGAGTACCTGGAGAAAGCTTTAAACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227145 representing NM_021704
 Red=Cloning site Green=Tags(s)
 MDAKVVAVLALVLAALCISDGKPVSLSYRCPFRFFESHIRANVKHLKILNTPNCALQIVARLKNNNRQV
 CIDPKLKIWEYLEKALNK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_021704

ORF Size: 267 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_021704.3](#), [NP_068350.1](#)

RefSeq Size: 1878 bp

RefSeq ORF: 270 bp

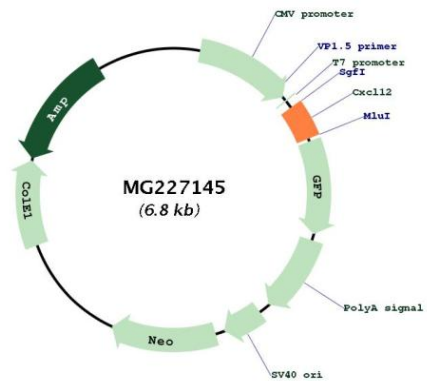
Locus ID: 20315

UniProt ID: [P40224](#)

Cytogenetics: 6 F1

Gene Summary: This gene encodes a member of the alpha chemokine protein family. The encoded protein is secreted and functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4. The encoded protein plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

Product images:



Circular map for MG227145