

## Product datasheet for MR227145

### Cxcl12 (NM\_021704) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Cxcl12 (NM\_021704) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Cxcl12

Synonyms: Pbsf; Scyb12; Sdf1; Tlsf; Tpar1

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence: >MR227145 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGACGCCAAGGTCGTCGCCGTGCTGGCCCTGGTGTGGCCGCGCTCTGCATCAGTGACGGTAAACCAG  
TCAGCCTGAGCTACCGATGCCCTGCCGTTCTTCGAGAGCCACATCGCCAGAGCCAACGTCAAGCATCT  
GAAAATCCTCAACTCCAACACTGTGCCCTTCAGATTGTTGCACGGCTGAAGAACAACAACAGACAAGTG  
TGCATTGACCCGAAATTAAGTGGATCCAAGAGTACCTGGAGAAAGCTTTAAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227145 protein sequence  
Red=Cloning site Green=Tags(s)

MDAKVVAVLALVLAALCISDGKPVSLSYRCPFRFFESHIRANVKHLKILNTPNCALQIVARLKNNNRQV  
CIDPKLKIWEYLEKALNK

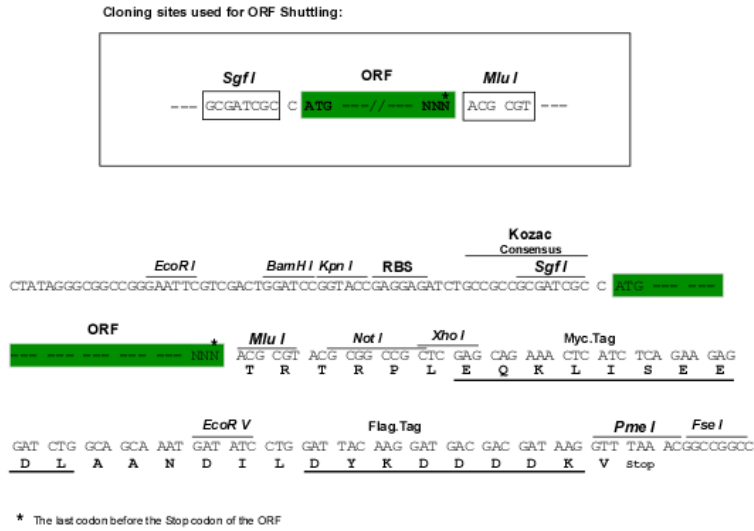
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

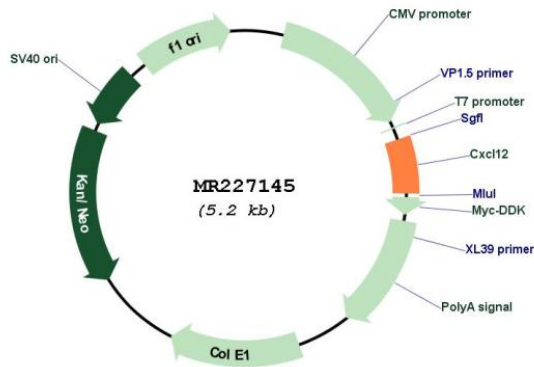


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_021704  
ORF Size: 270 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>RefSeq:</b>	<p><a href="#">NM_021704.3</a>, <a href="#">NP_068350.1</a></p>
<b>RefSeq Size:</b>	<p>1878 bp</p>
<b>RefSeq ORF:</b>	<p>270 bp</p>
<b>Locus ID:</b>	<p>20315</p>
<b>MW:</b>	<p>10 kDa</p>
<b>Gene Summary:</b>	<p>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]</p>