

Product datasheet for **SC333515**

SDF1 (CXCL12) (NM_001277990) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDF1 (CXCL12) (NM_001277990) Human Untagged Clone
Tag:	Tag Free
Symbol:	CXCL12
Synonyms:	IRH; PBSF; SCYB12; SDF1; TLSF; TPAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333515 representing NM_001277990. Blue=Insert sequence Red=Cloning site Green=Tag(s)

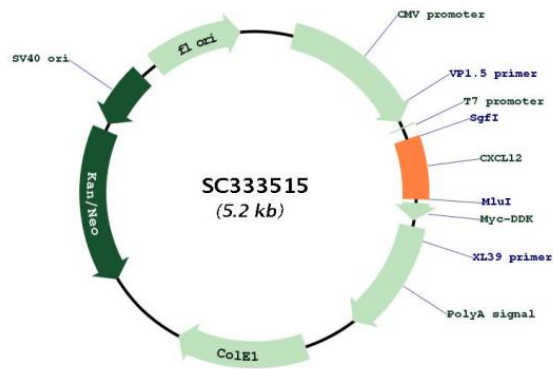
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGCCAAGGTCGTGGTCGTGGTCCTCGTGACCGCGCTCTGCCTCAGCGACGGGAAGCCC
GTCAGCCTGAGCTACAGATGCCATGCCGATTCTCGAAAGCCATTATTGTAATTGCCTTATTAGAGTG
TCTTCCACGGAGCCACTCCTCTGACTCAGGGCTCCTGGGTTTTGTATTCTCTGAGCTGTGCAGGTGGG
GAGACTGGGCTGAGGGAGCCTGGCCCCATGGTCAGCCCTAGGGTGGAGAGCCACCAAGAGGGACGCCTG
GGGTGCCAGGACCAGTCAACCTGGCAAAGCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001277990

Insert Size: 312 bp

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).

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_001277990.1
RefSeq Size:	3139 bp
RefSeq ORF:	312 bp
Locus ID:	6387
UniProt ID:	P48061
Cytogenetics:	10q11.21
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Leukocyte transendothelial migration
MW:	11 kDa
Gene Summary:	<p>This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (5) uses an alternate splice site and an alternate 3'-terminal exon, compared to variant 1. The resulting protein (isoform 5) is longer and has a distinct C-terminus compared to isoform alpha. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>