

## Product datasheet for **RG207018**

### **CXCL7 (PPBP) (NM\_002704) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CXCL7 (PPBP) (NM_002704) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CXCL7
Synonyms:	B-TG1; Beta-TG; CTAP-III; CTAP3; CTAPIII; CXCL7; LA-PF4; LDGF; MDGF; NAP-2; PBP; SCYB7; TC1; TC2; TGB; TGB1; THBGB; THBGB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207018 representing NM_002704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCTCAGACTTGATACCACCCCTTCTGTAAACAGTGCGAGACCACTTCATGCCTTGCAAGTGCTGC  
TGCTTCTGTCTATTGCTGCTGACTGCTCTGGCTTCTCCACCAAAGGACAACTAAGAGAACTTGCGGAA  
AGGCAAAGAGGAAAGTCTAGACAGTGACTTGTATGCTGAACTCCGCTGCATGTGTATAAAGACAACCTCT  
GGAATTCATCCCAAAACATCCAAAGTTTGAAGTGATCGGAAAGGAACCCATTGCAACCAAGTCGAAG  
TGATAGCCACACTGAAGGATGGGAGGAAAATCTGCCTGGACCCAGATGCTCCAGAATCAAGAAAATTGT  
ACAGAAAAAATTGGCAGGTGATGAATCTGCTGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG207018 representing NM_002704 Red=Cloning site Green=Tags(s)
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MSLRDLTTPSCNSARPLHALQVLLLLLLLLTALASSTKGQTKRNLAKGKEESLDSLDYELRCMCIKTTS  
GIHPKNIQSLEVIKGTGHCNQVEVIATLKDGRKICLDPDAPRIKKIVQKLAGDESAD

**TRTRPLE** - GFP Tag - V

Restriction Sites:	Sgfl-Mlul
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**Cloning Scheme:**


**ACCN:** NM\_002704

**ORF Size:** 384 bp

**OTI Disclaimer:** 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\\_002704.3](#)

**RefSeq Size:** 715 bp

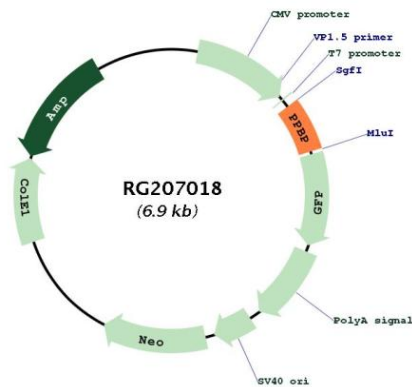
**RefSeq ORF:** 387 bp

**Locus ID:** 5473

**UniProt ID:** [P02775](#)  
**Cytogenetics:** 4q13.3  
**Domains:** IL8  
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane  
**Protein Pathways:** Chemokine signaling pathway, Cytokine-cytokine receptor interaction

**Gene Summary:** The protein encoded by this gene is a platelet-derived growth factor that belongs to the CXC chemokine family. This growth factor is a potent chemoattractant and activator of neutrophils. It has been shown to stimulate various cellular processes including DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by synovial cells. The protein also is an antimicrobial protein with bactericidal and antifungal activity. [provided by RefSeq, Nov 2014]

**Product images:**



Circular map for RG207018