

Product datasheet for **RC219459**

G CSF (CSF3) (NM_172219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G CSF (CSF3) (NM_172219) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	G CSF
Synonyms:	C17orf33; CSF3OS; GCSF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219459 representing NM_172219 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGACCTGCCACCCAGAGCCCCATGAAGCTGATGGCCCTGCAGCTGCTGCTGTGGCACAGTGCAC
 TCTGGACAGTGCAGGAAGCCACCCCTGGGCCCTGCCAGCTCCCTGCCCAGAGCTTCTGCTCAAGTG
 CTTAGAGCAAGTGAAGATCCAGGGCGATGGCGCAGCGCTCCAGGAGAAGCTGTGTGCCACCTACAAG
 CTGTGCCACCCGAGGAGCTGGTCTGCTCGGACACTCTCTGGGCATCCCCTGGGCTCCCCTGAGCAGCT
 GCCCCAGCCAGGCCCTGCAGCTGGCAGGCTGCTTGAGCCAACCTCATAGCGGCCTTTTCTCTACCAGGG
 GCTCCTGCAGGCCCTGGAAGGGATCTCCCCGAGTTGGGTCCCACCTGGACACACTGCAGCTGGACGTC
 GCCGACTTTGCCACCACCATCTGGCAGCAGATGGAAGAACTGGGAATGGCCCCCTGCCCTGCAGCCCCACCC
 AGGGTGCCATGCCGGCCTTCGCCTCTGCTTTCCAGCGCCGGGCAGGAGGGGTCTGGTTGCCTCCCATCT
 GCAGAGCTTCTGGAGGTGTCGTACCGCGTTCTACGCCACCTTGCCCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC219459 representing NM_172219 Red=Cloning site Green=Tags(s)
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MAGPATQSPMKLMALQLLLWHSALWTVQEATPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLCAATYK
 LCHPEELVLLGHSLGIPWAPLSSCPSQALQLAGCLSQLHSGLFLYQGLLQALEGISPELGPTLDTLQLDV
 ADFATTIWQMEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSYRVLRLHLAQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172219

ORF Size: 612 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

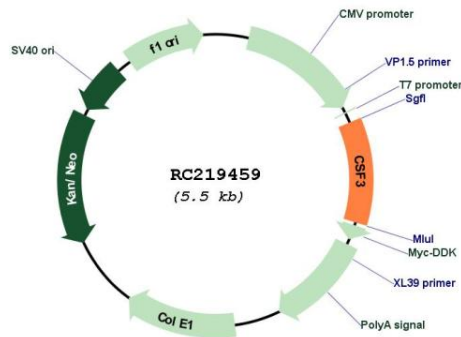
RefSeq: [NM_172219.3](#)

RefSeq Size: 1509 bp

RefSeq ORF: 615 bp

Locus ID:	1440
UniProt ID:	P09919
Cytogenetics:	17q21.1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway
MW:	18.6 kDa
Gene Summary:	This gene encodes a member of the IL-6 superfamily of cytokines. The encoded cytokine controls the production, differentiation, and function of granulocytes. Granulocytes are a type of white blood cell that are part of the innate immune response. A modified form of this protein is commonly administered to manage chemotherapy-induced neutropenia. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, May 2020]

Product images:



Circular map for RC219459