

Product datasheet for **RG207709**

G CSF (CSF3) (NM_172220) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: G CSF (CSF3) (NM_172220) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: G CSF
Synonyms: C17orf33; CSF3OS; GCSF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207709 representing NM_172220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCCTGAGCCCGCTCTGTCCCCAGCCCTGCAGCTGCTGTGGCACAGTGCCTCTGGACAGTGC
 AGGAAGCCACCCCTGGGCCCTGCCAGCTCCCTGCCCCAGAGCTTCTGCTCAAGTGCTTAGAGCAAGT
 GAGGAAGATCCAGGGCGATGGCGCAGCGCTCCAGGAGAAGCTGTGTGCCACCTACAAGCTGTGCCACCC
 GAGGAGCTGGTGTGCTCGGACACTCTCTGGGCATCCCTGGGCTCCCTGAGCAGCTGCCCCAGCCAGG
 CCCTGCAGCTGGCAGGCTGCTTGTAGCCAACTCCATAGCGGCTTTTCTCTACCAGGGGCTCTGCAGGC
 CCTGGAAGGGATCTCCCCGAGTTGGGTCCACCTTGGACACACTGCAGCTGGACGTCGCCGACTTTGCC
 ACCACCATCTGGCAGCAGATGGAAGAACTGGGAATGGCCCTGCCTGCAGCCCACCCAGGGTGCCATGC
 CGGCCTTCGCTCTGCTTCCAGCGCCGGGCAGGAGGGGTCTGGTTGCCTCCCATCTGCAGAGCTTCT
 GGAGGTGTCGTACCGGTTCTACGCCACCTTGCCAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207709 representing NM_172220
 Red=Cloning site Green=Tags(s)

MSPEPALSPALQLLLWHSALWTVQEATPLGPASSLPQSFLLKCLEQVRKIQQDGAALQEKLCAATYKLC
 EELVLLGHSLGIPWAPLSSCPQALQLAGCLSQLHSLFLYQGLLQALEGISPELGPTLDLQLDVA
 DFTTIWQQMEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVS YRVLRLHLAQP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_172220

ORF Size: 600 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_172220.1](#), [NP_757374.1](#)

RefSeq Size: 1703 bp

RefSeq ORF: 516 bp

Locus ID: 1440

UniProt ID: [P09919](#)

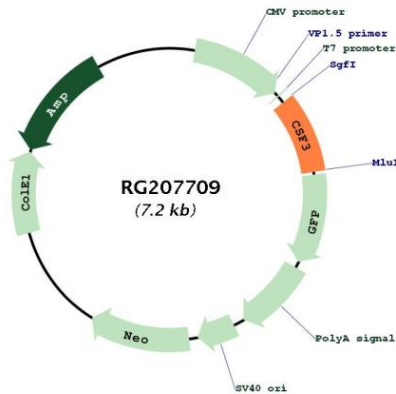
Cytogenetics: 17q21.1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

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 RG207709