

Product datasheet for **SC306745**

G CSF (CSF3) (NM_172220) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G CSF (CSF3) (NM_172220) Human Untagged Clone
Tag:	Tag Free
Symbol:	G CSF
Synonyms:	C17orf33; CSF3OS; GCSF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_172220 edited AATGGGGATTAAGGCACCCAGTGTCCCCGAGAGGGCCTCAGGTGGTAGGGAACAGCATG TCTCCTGAGCCCGCTCTGTCCCCAGCCCTGCAGCTGCTGCTGTGGCACAGTGCACCTCTGG ACAGTGCAGGAAGCCACCCCTGGGCCCTGCCAGCTCCCTGCCCCAGAGCTTCCCTGCTC AAGTGCTTAGAGCAAGTGAAGGATCCAGGGCGATGGCCGAGCGCTCCAGGAGAAGCTG TGTGCCACCTACAAGCTGTGCCACCCGAGGAGCTGGTGTGCTCGGACACTCTCTGGGC ATCCCCTGGGCTCCCCTGAGCAGCTGCCCCAGCCAGGCCCTGCAGCTGGCAGGCTGCTTG AGCCAACCTCCATAGCGGCCTTTTCTCTACCAGGGGCTCCTGCAGGCCCTGGAAGGGATC TCCCCGAGTTGGGTCCCACCTTGGACACACTGCAGCTGGACGTCGCCGACTTTGCCACC ACCATCTGGCAGCAGATGGAAGAACTGGGAATGGCCCCTGCCCTGCAGCCACCCAGGGT GCCATGCCGGCCTTCGCCTCTGCTTTCCAGCGCCGGGAGGAGGGTCTGGTTGCCTCC CATCTGCAGAGCTTCTTGAGGTGTCGTACCGCGTTCTACGCCACCTTGCCAGCCCTGA GCCAAGCCCTCCCATCCCATGTATTTATCTCTATTTAATATTTATGTCTATTTAAGCCT CATATTTAAAGACAGGAAGAGCAGAACGG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172220 unedited GTCAGTCAGATTTGTAACGACTCACTATAGGCGGCCGGAATCGCCCTTAAGGGGATTA AAGGCACCCAGTGTCCCCGAGNAGGCCTCAGGTGGTAGGGAACAGCATGTCTCCTGAGCC CGCTCTGTCCCCAGCCCTGCAGCTGCTGCTGTGGCACAGTGCACCTCTGGACAGTGCAGGA AGCCACCCCTGGGCCCTGCCAGCTCCCTGCCCCAGAGCTTCTGCTCAAGTGCTTAGA GCAAGTGAGGAAGATCCAGGGCGATGGCGCAGCGCTCCAGGAGAAGCTGTGTGCCACCTA CAAGCTGTGCCACCCCGAGGAGCTGGTGTGCTCGGACACTCTCTGGGCATCCCCGGGC TCCCCTGAGCAGCTGCCCCAGCCAGGCCCTGCAGCTGGCAGGCTGCTTGAGCCAACCTCCA TAGCGGCCTTTCTCTACCAGGGGCTCCTGCAGGCCCTGGAAGGGATCTCCCCGAGTT GGGTCCCACCTTGGACACACTGCAGCTGGACGTGCGCCGACTTTGCCACCACCATCTGGCA GCAGATGGAAGAAGTGGGAATGGCCCCTGCCCTGCAGCCACCCAGGGTGCCATGCCGGC CTTCGCTCTGCTTCCAGCGCCGGGCNAGGAGGGTCCTGGTTGCCTCCCATCTGCAGAG CTTCTGGAGGTGTCGTACCGCTTCTACGCCACCTTGCCAGCCCTGAGCCAAGCCCTC CCCATCCCATGTATTTATCTCTATTTAATATTATGTCTATTTAAGCCTCATATTTAAGA CAGGNAAGAGCAGAACGGGAGGGCGAATTCAGATCTTGTACCGATATTCAGCTTGTGCGAC TCTAGATTGCGGCCGCTCATAGCTGGTTCCTGAACAGATCCCGG
Restriction Sites:	Please inquire
ACCN:	NM_172220
Insert Size:	750 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_172220.1</u> , <u>NP_757374.1</u>
RefSeq Size:	1703 bp
RefSeq ORF:	603 bp
Locus ID:	1440
UniProt ID:	<u>P09919</u>
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:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the middle portion of the coding region, compared to variant 1. This results in a shorter protein (isoform c), compared to isoform a.</p>