

Product datasheet for RC229626

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OriGene Technologies, Inc.

G CSF (CSF3) (NM_001178147) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: G CSF (CSF3) (NM_001178147) 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 >RC229626 representing NM_001178147
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229626 representing NM_001178147

Red=Cloning site Green=Tags(s)

MAGPATQSPMKLMALQLLLWHSALWTVQEATPLGPASSLPQSFLLKCLEQVRKIQGDGAALQEKLAGCLS QLHSGLFLYQGLLQALEGISPELGPTLDTLQLDVADFATTIWQQMEELGMAPALQPTQGAMPAFASAFQR

RAGGVLVASHLQSFLEVSYRVLRHLAQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1449-a08.zip



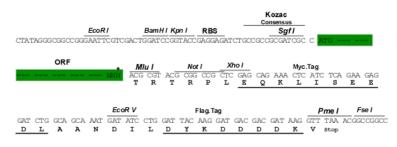


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling: ORF Sgfl Mlul SCGATOGO ACG CGT



^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001178147

ORF Size: 504 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 001178147.2

RefSeq ORF: 507 bp Locus ID: 1440 **UniProt ID:** P09919 Cytogenetics: 17q21.1

G CSF (CSF3) (NM_001178147) Human Tagged ORF Clone - RC229626

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

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

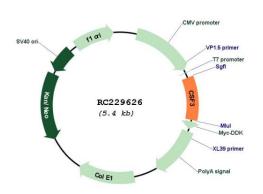
MW: 18.6 kDa

Gene Summary: This gene encodes a member of the IL-6 superfamily of cytokines. The encoded cytokine

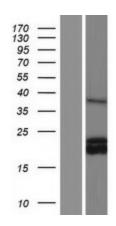
controls the production, differentiation, and function of granulocytes. Granulocytes are a type of white blood cell that are part of the innate immune response. A modified form of this protein is commonly administered to manage chemotherapy-induced neutropenia. Alternatively spliced transcript variants have been described for this gene. [provided by

RefSeq, May 2020]

Product images:

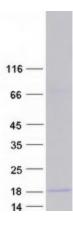


Circular map for RC229626



Western blot validation of overexpression lysate (Cat# [LY432626]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229626 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified CSF3 protein (Cat# [TP329626]). The protein was produced from HEK293T cells transfected with CSF3 cDNA clone (Cat# RC229626) using MegaTran 2.0 (Cat# [TT210002]).