

Product datasheet for **RG219624**

GCSF Receptor (CSF3R) (NM_172313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCSF Receptor (CSF3R) (NM_172313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GCSF Receptor
Synonyms:	CD114; GCSFR; SCN7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219624 representing NM_172313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAGGCTGGAAACTGCAGCCTGACTTGGGCTGCCCTGATCATCCTGCTGCTCCCGGAAGTCTGG
 AGGAGTGCGGGCACATCAGTGTCTCAGCCCCATCGTCCACCTGGGGGATCCCATCACAGCTCCTGCAT
 CATCAAGCAGAAGTGCAGCCATCTGGACCCGGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCTTCAG
 CCCGGGGCAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCTGCCCCACCTCAACC
 ACACTCAGGCCTTCTCTCCTGCTGCCTGAACTGGGGCAACAGCTGCAGATCCTGGACCAGGTTGAGCT
 GCGCGCAGGCTACCTCCAGCCATACCCACAACCTCTCCTGCCTCATGAACTCACAACCAGCAGCCTC
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 CCGGTGGTCTTCTCAGAAAGCAGAGGCCAGCTCTGACCAGACTCCATGCCATGGCCGAGACCCTCACA
 GCCTCTGGGTAGGCTGGGAGCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGCTGGGCC
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 CCTCCAGCATGTCTATGCCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCA
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 TCCAGACCTATGTGCTCCAGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCCAGTCTGGCACCAG
 CGATCAGGCTGGGCTCCAGGCGATCTGCATACTTTAAGGACCAGATCATGCTCCATCCAGCCCCACCC
 AATGGCCTTTTGTGCTTGTTCCTATAACTTCAGTATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219624 representing NM_172313
 Red=Cloning site Green=Tags(s)

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MARLGNCSLTWAALIILLPGSLEECGHISVSAPIVHLGDPITASCIKQNCSHLDPEPQILWRLGAELQ
PGGRQQRLSDGTQESIITLPHLNHTQAFSLCCNLWGNLQILDQVELRAGYPPAIPHNLSCLMNLTTSSL
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TSMSPQLCLDPMDVVKLEPPMLRTMDPSPEAAPQAGCLQLCWEPWQPLGHINQKCELRHKPQRGEASWA
LVGPLPLEALQYELCGLLPATAYTLQIRCIWPLPGHWSWSPSLELRTERAPTVRDLDTWWRQRLDPR
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PVVFSERGPALTRLHAMARDPHSLWVGWEPNPWPQGYVIEWGLGPPSASNSNKTWRMEQNGRATGFL
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HYTIFWTNAQNQSFSAILNASSRGFVLHGLEPASLYHIHLMAASQAGATNSTVLTLMTLTPEGSELHIIL
GLFGLLLLLTCLCGTAWLCCSPNRKNPLWSPVDPAHSSLGSWVPTIMEEDAFQLPGLTPTITKLVLE
EDEKPPVPWESHNSSETCGLPTLVQTYVLQGDPRAVSTQPQSQSGTSDQAGPPRRSAYFKDQIMLHPAPP
NGLLCLFPITSVL
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172313

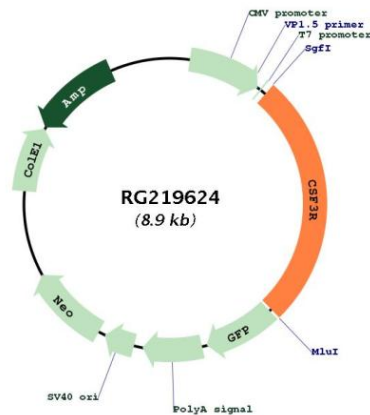
ORF Size: 2349 bp

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:	<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_172313.3</u>
RefSeq Size:	2999 bp
RefSeq ORF:	2352 bp
Locus ID:	1441
UniProt ID:	<u>Q99062</u>
Cytogenetics:	1p34.3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Pathways in cancer
Gene Summary:	The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Alternatively spliced transcript variants have been described. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RG219624