

Product datasheet for **RG208790**

GCSF Receptor (CSF3R) (NM_000760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCSF Receptor (CSF3R) (NM_000760) 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:

>RG208790 representing NM_000760
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAGGCTGGGAACTGCAGCCTGACTTGGGCTGCCCTGATCATCCTGCTGCTCCCCGGAAGTCTGG
 AGGAGTGCGGGCACATCAGTGTCTCAGCCCCATCGTCCACCTGGGGGATCCCATCACAGCCTCCTGCAT
 CATCAAGCAGAAGTGCAGCCATCTGGACCCGGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCTTCAG
 CCCGGGGCAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCTGCCCCACCTCAACC
 ACACTCAGGCCTTCTCTCCTGCTGCCTGAACTGGGGCAACAGCCTGCAGATCCTGGACCAGGTTGAGCT
 GCGCGCAGGCTACCCTCCAGCCATACCCACAACCTCTCCTGCCTCATGAACTCACAACCAGCAGCCTC
 ATCTGCCAGTGGGAGCCAGGACCTGAGACCCACCTACCCACCAGCTTCACTCTGAAGAGTTTCAAGAGCC
 GGGGCAACTGTCAGACCAAGGGGACTCCATCCTGGACTGCGTGCCCAAGGACGGGCAGAGCCACTGCTG
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 ACCAGCATGTCCCACAACCTGTGTCTTATCCCATGGATGTTGTGAACTGGAGCCCCCATGCTGCGGA
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 GCCAGGCTGCACATAAATCAGAAGTGTGAGCTGCGCCACAAGCCGACGCGTGGAGAAGCCAGCTGGGCA
 CTGGTGGGCCCCCTCCCCTGGAGGCCCTTCAATGAGCTCTGCGGGCTCCTCCAGCCAGGCCCTACA
 CCCTGCAGATACGCTGCATCCGCTGGCCCTGCCTGGCCACTGGAGCGACTGGAGCCCCAGCCTGGAGCT
 GAGAACTACGAACGGGCCCCACTGTGAGACTGGACACATGGTGGCGGCAGAGGCAGCTGGAGCCCCAGG
 ACAGTGCAGCTGTTCTGGAAGCCAGTGGCCCTGGAGGAAGACAGCGGACGGATCCAAGGTTATGTGGTTT
 CTTGGAGACCTCAGGCCAGGCTGGGGCCATCCTGCCCTTGCACACCACAGAGCTCAGCTGCACCTT
 CCACCTGCCTTTCAGAAGCCAGGAGGTGGCCCTTGTGGCCTATAACTCAGCCGGGACCTCTCGTCCCACT
 CCGGTGGTCTTCTCAGAAAGCAGAGGCCAGCTCTGACCAGACTCCATGCCATGGCCGAGACCCTCACA
 GCCTCTGGGTAGGCTGGGAGCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGCGCTGGGCC
 CCCCAGCGCAGCAATAGCAACAAGACCTGGAGGATGGAACAGAATGGGAGAGCCAGGGGTTTCTGCTG
 AAGGAGAACATCAGGCCCTTTCAGCTCTATGAGATCATCGTGACTCCCTTGTACCAGGACACCATGGGAC
 CCTCCAGCATGTCTATGCCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCA
 CATTGGCAAGACCTGGGCACAGCTGGAGTGGTGCCTGAGCCCCCTGAGCTGGGAAGAGCCCCCTTACC
 CACTACACCATCTTCTGGACCAACGCTCAGAACCAGTCTTCTCCGCCATCCTGAATGCCTCCTCCCGTG
 GCTTTGTCTCCATGGCCTGGAGCCCGCAGTCTGTATACATCCACCTCATGGCTGCCAGCCAGGCTGG
 GGCCACCAACAGTACAGTCTCACCTGATGACCTTGACCCAGAGGGGTGCGGAGCTACACATCATCCTG
 GGCTGTTGCGCCTCCTGCTGTTGCTCACCTGCCTCTGTGGAAGTGCCTGGCTCTGTTGCAGCCCCAACA
 GGAAGAAATCCCCTCTGGCCAAGTGTCCCAGACCCAGCTCACAGCAGCCTGGGCTCCTGGGTGCCACAAT
 CATGGAGGAGGATGCCTTCCAGCTGCCCCGGCTTGGCACGCCACCCATCACCAAGCTCACAGTGTGGAG
 GAGGATGAAAAGAAGCCGGTGCCTGGGAGTCCCATAACAGCTCAGAGACCTGTGGCCTCCCCACTCTGG
 TCCAGACCTATGTGCTCCAGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCAGTCTGGCACCAG
 CGATCAGGTCCTTATGGGCAGCTGCTGGGCAGCCCCACAAGCCAGGGCCAGGGCACTATCTCCGCTGT
 GACTCCACTCAGCCCCTTGGCGGGCCTCACCCCAAGCCCAAGTCTATGAGAACCTCTGGTTCCAGG
 CCAGCCCCCTGGGACCCCTGGTAACCCCAAGCCAGGAGGACGACTGTGTCTTGGGCCACTGCT
 CAACTCCCCCTCCTGCAGGGGATCCGGGTCCATGGGATGGAGGCGCTGGGGAGCTTC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208790 representing NM_000760
 Red=Cloning site Green=Tags(s)

MARLGNCSLTWAALIILLPGSLEECGHISVSAPIVHLGDPITASCIKQNCSHLDPEPQILWRLGAELQ
 PGGRQQRLSDGTQESIITLPHLNHTQAFLLSCCLNWGNSLQILDQVELRAGYPPAIPHNLSCLMNLTTSSL
 ICQWEPGPETHLPTSFTLKSFKSRGNCQTQGDSILDCVPKDGQSHCCIPRKHLLLYQNMGIWVQAENALG
 TSMSPQLCLDPM DVVLEPPMLRTMDPSPEAAPPQAGCLQLCWEPWQPGLHINQKCELRHKPQRGEASWA
 LVGPLPLEALQYELCGLLPATAYTLQIRCIWPLPGHWSWSPSLELRTERAPT VRLDTWWRQRQLDPR
 TVQLFWKPVPLEEDSGRIQGYVVSWRPSGQAGAILPLCNTTEL SCTFHLPSEAQEV ALVAYNSAGTSRPT
 PVVFSERGPALTRLHAMARDPHSLWVGWEPNPWPQGYVIEWGLGPPSASNSNKTWRMEQNGRATGFL
 KENIRPFQLYEIIVTPL YQDTMGPSQHVYAYSQEMAPSHAPELHLKHIGKTWAQLEWVPEPPELGSPLT
 HYTIFWTNAQNQSF SAILNASSRGFVLHGLEPASLYHIHLMAASQAGATNSTVL TLMTLTPEGSELHIL
 GLFGLLLLLTCLCGTAWLCCSPNRKNPLWPSVDP AHSSLGSWVPTIMEEDAFQLPGLGTPPITKLTVLE
 EDEK KPVWESHNSSETCGLPTLVQTYVLQGDPRAVSTQPQSQSGTSDQVLYGQLLGSPTSPGPGHYLRC
 DSTQPLL AGLTPSPKSYENLWFQASPLGLVTPAPSQEDDCVFGPLLNFLLQGIRVHGMEALGSF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_000760

ORF Size: 2508 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_000760.4](#)

RefSeq Size: 3003 bp

RefSeq ORF: 2511 bp

Locus ID: 1441

UniProt ID: [Q99062](#)

Cytogenetics: 1p34.3

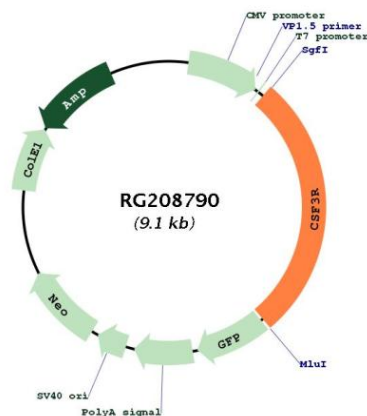
Domains: FN3

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 RG208790