

## Product datasheet for **RG217104**

### M-CSF (CSF1) (NM\_000757) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	M-CSF (CSF1) (NM_000757) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	M-CSF
Synonyms:	CSF-1; MCSF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217104 representing NM\_000757  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCGCGCCGGCGCCCGGGCGCTGCCCTCCCACGACATGGCTGGGCTCCCTGCTGTGTGGTCT  
 GTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAGTACTGTAGCCACATGATTGGGAGTGGACA  
 CCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAGACCTCGTGCCAAATTACATTTGAGTTTGT  
 GACCAGGAACAGTTGAAAGATCCAGTGTCTACCTAAGAAGGCATTTCTCCTGGTACAAGACATAATGG  
 AGGACACCATGCGCTTCAGAGATAACACCCCCAATGCCATCGCCATTGTGCAGCTGCAGAACTCTCTTT  
 GAGGCTGAAGAGCTGCTCACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTTCTATGAG  
 ACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCCTTGACAAGGACT  
 GGAATATTTTCAGCAAGAACTGCAACAACAGCTTTGCTGAATGCTCCAGCCAAGATGTGGTGACCAAGCC  
 TGATTGCAACTGCCTGTACCCCAAGCCATCCCTAGCAGTGACCCGGCCTCTGTCTCCCCTCATCAGCCC  
 CTGCCCCCTCCATGGCCCTGTGGCTGGCTTGACCTGGGAGGACTCTGAGGGAACCTGAGGGCAGCTCCC  
 TCTTGCTGTGAGCAGCCCCTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCAC  
 CTGCCAGAGCTTTGAGCCGCCAGAGACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCACCACAGCCT  
 CGCCCCTCTGTGGGGCCTTCAACCCCGGGATGGAGGATATTCTTGACTCTGCAATGGGCACTAATTGGG  
 TCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATTCCCGTACCCCAAGGGACAGAGCTTTCCCCCTCCAG  
 GCCAGGAGGGGCGAGCATGCAGACAGAGCCCGCCAGACCCAGCAACTTCTCTCAGCATCTTCTCCACTC  
 CCTGCATCAGCAAAGGGCCAACAGCCGGCAGATGTAAGTGGTACAGCCTTGCCCAGGTTGGGCCCGTGA  
 GGCCCACTGGCCAGGACTGGAATCACACCCCCAGAAGACAGACCATCCATCTGCCCTGCTCAGAGACCC  
 CCGGAGCCAGGCTCTCCAGGATCTCATCTGCGCCCCAGGGCCTCAGCAACCCCTCCACCCTCTCT  
 GCTCAGCCACAGCTTTCCAGAAGCCACTCCTCGGGCAGCGTGTGCCCTTGGGGAGCTGGAGGGCAGGA  
 GGAGCACAGGGATCGGAGGAGCCCGCAGAGCCAGAAGGAGGACCAGCAAGTGAAGGGGAGCCAGGCC  
 CCTGCCCGTTTTAACTCCGTTCTTTGACTGACACAGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGC  
 CCGCAGCTCCAGGAGTCTGTCTTCCACCTGCTGGTGCCAGTGTATCCTGGTCTTGCTGGCCGTCGGAG  
 GCCTCTTGTCTACAGGTGGAGGCGGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGGAGCA  
 ACCAGAGGGCAGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG217104 representing NM\_000757  
 Red=Cloning site Green=Tags(s)

MTAPGAAGRCPPPTTWLGSLLLLVCLLASRSITEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFV  
 DQEQLKDPVCYLKKAFLLVQDIMEDTMRFRDNTPNIAIAIVQLQELSLRLKSCFTKDYEEHDKACVRTFYE  
 TPLQLLEKVKNVFNETHKLLDKDWNIFSKNCNNSFAECCSSQDVVTKPDCNCLYPKAIPSSDPASVSPHQ  
 LAPSMAPVAGLTWEDSEGTEGSSLLPGEQLHTVDPGSAKQRPPRSTCQSFEPPETPVVKDSTIGGSPQ  
 RPSVGFNPGMEDILDSAMGTNWVPEEASGEASEIPVPQGTLSRSPRGGSMQTEPARSNFLSASSPL  
 PASAKGQQPADVTGTALPRVGPVPTGQDWNHTPQKTDHPSALLRDPPEPGSPRISLRPQGLSNPSTLS  
 AQPQLSRSHSSGVLPLGELEGRSTRDRRSPAEPGGPASEGAARPLPRFNSVPLTDTGHERQSEGSSS  
 PQLQESVFLHLLVPSVILVLLAVGGLLFYRWRRRSHQEPQRADSPLEQPEGSPLTQDDRQVELPV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_000757

**ORF Size:** 1662 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

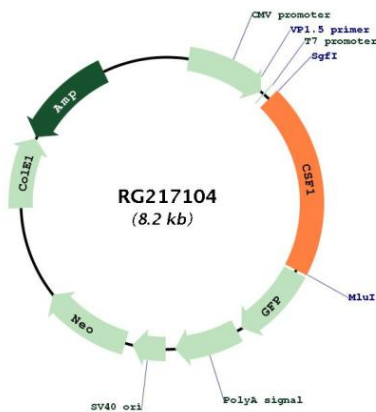
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_000757.3, NP\\_000748.3](#)  
**RefSeq Size:** 2749 bp  
**RefSeq ORF:** 1665 bp  
**Locus ID:** 1435  
**UniProt ID:** [P09603](#)  
**Cytogenetics:** 1p13.3  
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction, Hematopoietic cell lineage  
**Gene Summary:** The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

**Product images:**



Circular map for RG217104