

Product datasheet for **SC306741**

M-CSF (CSF1) (NM_172212) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	M-CSF (CSF1) (NM_172212) Human Untagged Clone
Tag:	Tag Free
Symbol:	M-CSF
Synonyms:	CSF-1; MCSF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_172212 edited
GAGGGCTGGCCAGTGAGGCTCGGCCCGGGAAAGTGAAAGTTTGCCTGGGTCTCTCGGC
GCCAGAGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCCACTC
CGCAGCAGCCAGCGAGCGAGCGAGCGAGGGCGGCCGACGCGCCCGGGCCGGGACCCA
GCTGCCGTATGACCGCGCCGGGCGCCCGGGCGCTGCCCTCCCACGACATGGCTGGGC
TCCCTGCTGTTGTTGGTCTGTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAG
TACTGTAGCCACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGT
CAGATGGAGACCTCGTGCCAAATTACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGAT
CCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGACACCATG
CGTTCAGAGATAACACCCCAATGCCATCGCCATTGTGCAGCTGCAGGAACTCTCTTTG
AGGCTGAAGAGCTGCTTCACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACT
TTCTATGAGACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAG
AATCTCCTTGACAAGGACTGGAATATTTTCAGCAAGAAGTCAACAACAGCTTTGCTGAA
TGCTCCAGCCAAGATGTGGTGACCAAGCCTGATTGCAACTGCCTGTACCCCAAAGCCATC
CCTAGCAGTGACCCGGCCTCTGTCTCCCCTCATCAGCCCTCGCCCCCTCCATGGCCCT
GTGGCTGGCTTGACCTGGGAGGACTCTGAGGAACTGAGGGCAGCTCCCTTTGCTGGT
GAGCAGCCCTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGCCACCCAGGAGCACC
TGCCAGAGCTTTGAGCCGCCAGAGACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCA
CCACAGCCTCGCCCTCTGTGCGGGCCTTCAACCCCGGATGGAGGATATTCTTGACTCT
GCAATGGGCACTAATTGGGTCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATCCCCTGA
CCCCAAGGGACAGAGCTTTCCCCTCCAGGCCAGGAGGGGGCAGCATGCAGACAGAGCCC
GCCAGACCCAGCAACTTCTCTCAGCATTTCTCCACTCCCTGCATCAGCAAAGGGCCAA
CAGCCGGCAGATGTAAGTGGTACAGCCTTGCCCAGGGTGGGCCCGTGGAGCCACTGGC
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CCGGAGCCAGGCTCTCCAGGATCTCATCACTGCGCCCCAGGGCCTCAGCAACCCTCC
ACCCTCTGCTCAGCCACAGCTTTCCAGAAGCCACTCCTCGGGCAGCGTGTGCCCTT
GGGGAGCTGGAGGGCAGGAGGAGCACCAGGGATCGGAGGAGCCCCGAGAGCCAGAAGGA
GGACCAGCAAGTGAAGGGGCAGCCAGGCCCTGCCCGTTTTAACTCCGTTCTTTGACT
GACACAGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGCCCGAGCTCCAGGAGTCTGTC
TTCCACCTGCTGGTGCCAGTGTATCCTGGTCTTGTGGCCGTGGAGGCTCTTGTTC
TACAGGTGGAGGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGAGCAA
CCAGAGGGCAGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTGTAGAGGGAA
TTCTAAGCTGGACGCACAGAACAGTCTCTCCGTGGGAGGAGACATTATGGGGCGTCCACC
ACCACCCCTCCCTGGCCATCCTCCTGGAATGTGGTCTGCCCTCCACCAGAGCTCCTGCCT
GCCAGGACTGGACCAGAGCAGCCAGGCTGGGGCCCTCTGTCTCAACCCGAGACCCCTTG
ACTGAATGAGAGAGGCCAGAGGATGCTCCCATGTGCCACTATTTATTGTGAGCCCTGG
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GCTGCACCCTCTCTCACTCCCTCCATGCCGGAACCCAGGCCAGGACCCACCGGCTG
TGGTTTGTGGGAAAGCAGGGTGGACGCTGAGGAGTGAAGAACCCTGCACCCAGAGGGCC
TGCTTGGTGCCAAGGTATCCCAGCCTGGACAGGCATGGACCTGTCTCCAGAGAGAGGAGC
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AGACGGGAAGAGGAGGCCTCTGGACCTGCTGGTCTGCACTGACAGCCTGAAGGTCTACA
CCCTCGGCTCACCTAAGTGCCCTGTGCTGGTTGCCAGGCGCAGAGGGGAGCCAGCCCTG
CCCTCAGGACCTGCCTGACCTGCCAGTGTGCCAAGAGGGGGATCAAGCACTGGCCTCTG
CCCCTCCTCTCCAGCACCTGCCAGAGCTTCTCCAGGAGCCAAGCAGAGGCTCCCTC
ATGAAGGAAGCCATTGCACTGTGAACACTGTACCTGCCTGCTGAACAGCCTGCCCCGTC
CATCCATGAGCCAGCATCCGTCCGCTCCTCACTCTCCAGCCTCTCCCATGGCCTCCATG
ACTTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_172212 unedited CGTGCTTTTGTATACGACTTTTTTGGGCGGCCGCGACATTGCGACGAGGGAAGGGGCTAG GCCTCTGNNAGGCTCGGCCCGGGNAAAGTGAAAGTTGCCTGGGTCTCTCGGCCCCAG AGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCCACTCCGCAG CAGCCAGCGAGCGAGCGAGCGAGCGAGGGCGGCCGACGCGCCCGGCCGGGACCCAGCTGC CCGTATGACCGCGCCGGGCGCCGCTGGCGTGCCTCCCACGACATGGCTGGGCTCCCT GCTGTTGTTGGTCTGCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAGTACTG TAGCCACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGAT GGAGACCTCGTGCCAAATTACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGATCCAGT GTGCTACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGACACCATGCGCTT CAGAGATAACACCCCAATGCCATCGCCATTGTGCAGCTGCAGGAATCTCTTTGAAGCT GAAGAGCTGCTTACCAAGGATTATGAAGAGCATGACAAGGGCCTGCGTCCGAATTTCT ATGAGACACCTCTCCAGTTGCTGGAGGAGTCAAGAAATGTCTTAATGAAACNAAGATCT NCTTGACAGGACTGGGATATTTACGAGGACTGCACAACAGCTTGCTGATGCTCAGCCAG ATGTGTGACAAGCCTGATGCAACTGCGTCCCAAGCATCTAGCATGACCCGGCCTGTN TCCTNATAGCCCTGGCCCTCATGCCCTGTTGCTGCCTGCCTGGAAGACTCGAGGGAC TAAGGCACTCCTTCTGCCGGGAGAA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_172212 unedited CTCCTTGGTGATGGCACTTCCAGNCCAGNANAGCACTGGGGNAGGGTCACAGGGATGCC ACCCGGGATCTGTTACAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTGA AAAAGTCTGGAGGCCCTGGGAAAGGCTGGAAAGTGGAGGACGGACCGA TGCTGGCTCATGGGTGGACGGGGCAGGCTGTTCAACAGGCAGGTACCGTGTTCACAGTG CAATGGCTTCTTCATGAGGGGAGCCTCTGCTTGGCCTCTGGAAAACTCTGGCCGGTG CTTGAAGGAGGAGGGGCAAAAGCCCATGCTTGATCCCCCTCTTGGCATCACTGGCAGGTC AAGCAGTCTGAGGGCAGGGCTGGCCTCCCCTTTGGGCTGGCAACCAGCACAGGGCAC TTAGGTGAGCCGAGGGTGTAAACCCCTTAGGCTGTCAGTGCAGACCAACAGTCCAGAGG CCTCCTTCCCCTCTCAGGCTGCACACCTTACCAGGAAATCAGGCCGACGCTGTCCC GCCCACGAACCTTAAGCTCCTTTTGTGGAGACAGGTCCATGCCTGTCCAGGCTGGGAT ACCTTGGCCCCAGCAAGCCCTTTGGGTGCAGGGTTTTTTTCTCCTTAAGTCCCCCTG GTTTTCCACAAAACAAAGGCCCTTGGGTCCCTTGCTGGGTTCCCGCCTTGAAGGGAAT TTAAGGAGGGTCCACCCCTGGAGAGAAAGGCTCCTGGAACCGGGCTTACCCAACCTTC CTA AAACCAATGGGGAACCTCCGGGGCTTCCAATAAAATATTTGCCCCCTTGGGAAGC TTCCTCGGCCCTT</p>
Restriction Sites:	Please inquire
ACCN:	NM_172212
Insert Size:	2900 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:

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_172212.1](#), [NP_757351.1](#)

RefSeq Size: 2545 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]

Transcript Variant: This variant (4) differs in the 3' UTR compared to variant 1. Both variants 1 and 4 encode isoform a. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. CCDS Note: This CCDS representation uses a downstream in-frame AUG start codon, which is supported by homology and publication data. The use of the 5'-most in-frame AUG in the transcript would result in a 74 aa N-terminal extension, but this N-terminal extension is not conserved in other species, and it would eliminate an N-terminal signal peptide, which is known to be present based on experimental evidence (PMIDs 8262907, 3498652).