

Product datasheet for **SC306739**

M-CSF (CSF1) (NM_172210) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	M-CSF (CSF1) (NM_172210) 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)

Fully Sequenced ORF: >OriGene sequence for NM_172210 edited
GAGGGCTGGCCAGTGAGGCTCGGCCCGGGAAAGTGAAAGTTGCCTGGGTCTCTCGGC
GCCAGAGCCGCTCTCCGCATCCCAGACAGCGGTGCGGCCCTCGGCCGGGGCCCACTC
CGCAGCAGCCAGCGAGCGAGCGAGCGAGGGCGGCCGACGCGCCCGCCGGGACCCA
GCTGCCCGTATGACCGCGCCGGGCGCCGGGCGCTGCCTCCCACGACATGGCTGGGC
TCCCTGTCTGTTGGTCTGTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAG
TACTGTAGCCACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGT
CAGATGGAGACCTCGTGCCAAATTACATTTGAGTTGTAGACCAGGAACAGTTGAAAGAT
CCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGACACCATG
CGCTTCAGAGATAACACCCCAATGCCATCGCCATTGTGCAGCTGCAGGAACCTCTTTG
AGGCTGAAGAGCTGCTTACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACT
TTCTATGAGACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAG
AATCTCCTTGACAAGGACTGGAATATTTTCAGCAAGAAGTGAACAACAGCTTTGCTGAA
TGCTCCAGCCAAGATGTGGTGACCAAGCCTGATTGCAACTGCCTGTACCCCAAAGCCATC
CCTAGCAGTGACCCGGCCTCTGTCTCCCCTCATCAGCCCTCGCCCCCTCCATGGCCCT
GTGGCTGGCTTGACCTGGGAGGACTCTGAGGGAAGTGAAGGAGCTCCCTCTTGCTGGT
GAGCAGCCCTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCACC
TGCCAGAGCTTTGAGCCGCCAGAGACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCA
CCACAGCCTCGCCCTCTGTCCGGGCTTCAACCCGGGATGGAGGATATTCTTGACTCT
GCAATGGGCACTAATTGGTCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATTCCCGTA
CCCAAGGGACAGAGCTTTCCCTCCAGGCCAGGAGGGGCGAGCATGCAGACAGAGCCC
GCCAGACCCAGCAACTTCTCTCAGCATCTTCTCCACTCCCTGCATCAGCAAAGGGCCAA
CAGCCGGCAGATGTAAGTGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGCCCGCAGCTC
CAGGAGTCTGTCTCCACCTGCTGGTGGCCAGTGTATCCTGGTCTTGCTGGCCGTCGGA
GGCCTCTGTTCTACAGGTGGAGCGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCT
CCCTTGAGCAACCAGAGGGCAGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCCA
GTGTAGAGGGAATTCTAAGCTGGACGCACAGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_172210 unedited</p> <pre> NAAGTTAAATTTGTATACGACTCATATAGGCGGCCGCGACATTCGCACGAGGGAAGGN CNNTGGCCAGTGAGGGGCTCGGCCCGGGNAAAGTGAAAGTTTGCTGGGTCTCTCGGC GCCAGAGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCACTC CGCAGCAGCCAGCGAGCGAGCGAGCGAGCGAGGGCGGCCGACGCGCCCGGGGACCCA GCTGCCGTATGACCGCGCCGGGCGCCGGGCGCTGCCCTCCCACGACATGGTGGG TCCCTGCTGTTGTTGGTCTGCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAG TACTGTAGCCACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGT CAGATGGAGACCTCGTGCCAAATTACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGAT CCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGACACCATG CGCTTCAGAGATAACACCCCAATGCCATCGCCATTGTGCAGCTGCAGGAACTCTTTTG AGGCTGAAGAGCTGCTTACCAAGGATTATGAAGAGCATGANCAGGCCTGCGTCCGAACT TTCTATGAGACACCTCTCCAGTTGCTGGAGGAGTCAAGAATGTCTTTAATGAAACAAGA ATCTCCTTGACAGGACTGGAATATTTTCAGCAAGAACTGCAACANCAGCTTTGCTGAATG CTCCAGCCAAGAATGTGTGACCAAGCCTGATTGCAACTGCCTGTACCCCAAGCCATCCC TAGCAGTGACCCGCGCTTTGTTTCCCTTATAAGGCCCTTGCCCCCTTCATGACCCCTGG GGCTG </pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_172210 unedited</p> <pre> TCTCTGCCACGCGCCATGGCTGGTCTTGCTGGCCGTCGGAAGCCTTGTGTTACAGGTG GAGGCGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGGAGCAACCAGAGGG CAGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTGTAGAGGGAATTC TAAGC TGGACGCACAGAACAGTCTCTCCGTGGGAGGAGACATTATGGGGGTCCACCACCACCC TCCTTGCCATCCTCCTGGAATGTGGTCTGCCCTCCACCAGAGCTCCTGCCTGCCAGGAC TGGACCAGAGCAGCCAGGCTGGGGCCCTCTGTCTCAACCCGACAGCCCTTGACTGAATG AGAGAGGCCAGAGGATGCTCCCCATGCTGCCACTATTTATTGTGAGCCCTGGAGGCTCCC ATGTGCTTGAGGAAGGCTGGTGAGCCCGGCTCANGACCTCTTCCCTCAGGGGCTGCACC CTCCTCTCACTCNCTTCCATGCCGGAACCCAGGCCAGGGACCCACCGCCTGTGGTTTGT GGGAAAGCANGGTGGACGCTGANGAGTAAAAGAACCTGCACCCAGAGGGCCTGCCTGGT GCCAAAGTATCCCAGCCTGGACAGGCATGGACCTGTCTCCAGAGAGAGGACCTGAAGTTC GTGGGGCGGGACAGCGTCCGGCCGATTTCCCGAAAAGTGTGCAACCCTGAAACGGGAAAA GGAGCCTTTTGCCTGCTGGTCTGCACTGACCGCCTGAAAGGTCTACCCCTCGGCTAAC CTAAATGCCCTGTGCTTGTGGCAGGCCCAAAGGGAAGCCCGCCCTGCCCTAAGACCT GCCTGACCTCGCCATGATGGC </pre>
Restriction Sites:	Please inquire
ACCN:	NM_172210
Insert Size:	1500 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_172210.1](#), [NP_757349.1](#)

RefSeq Size: 1519 bp

RefSeq ORF: 1317 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 (2) lacks an alternate in-frame segment compared to variant 1, resulting in a shorter isoform (b) compared to isoform a.