

Product datasheet for **SC128208**

M-CSF (CSF1) (NM_000757) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	M-CSF (CSF1) (NM_000757) 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: >OriGene ORF within SC128208 sequence for NM_000757 edited (data generated by NextGen Sequencing)

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ATGACCGCGCCGGGCGCCGGGCGCTGCCCTCCCACGACATGGCTGGGCTCCCTGCTG
TTGTTGGTCTGTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAGTACTGTAGC
CACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAG
ACCTCGTGCCAAATTACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGATCCAGTGTGC
TACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGACACCATGCGCTTCAGA
GATAACACCCCCAATGCCATCGCCATTGTGCAGCTGCAGGAACTCTCTTTGAGGCTGAAG
AGCTGCTTACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTTCTATGAG
ACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCCTT
GACAAGGACTGGAATATTTTCAGCAAGAAGTCAACAACAGCTTTGCTGAATGCTCCAGC
CAAGATGTGGTGACCAAGCCTGATTGCAACTGCCTGTACCCCAAAGCCATCCCTAGCAGT
GACCCGGCCTCTGTCTCCCCTCATCAGCCCCTCGCCCCCTCCATGGCCCCCTGTGGCTGGC
TTGACCTGGGAGGACTCTGAGGGAAGTGAAGGCAGCTCCCTCTTGCTGGTGAGCAGCCC
CTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCACCTGCCAGAGC
TTTGAGCCGCGCAGAGACCCAGTTGTCAAGGACAGCACCATCGGTGGCTACCACAGCCT
CGCCCCCTCTGTCCGGGCTTCAACCCCGGATGGAGGATATTCTTGACTCTGCAATGGGC
ACTAATGGGTCCAGAGAAGCCTCTGGAGAGGCCAGTGAATCCCCTACCCAAAGGG
ACAGAGCTTTCCCCCTCCAGGCCAGGAGGGGGCAGCATGCAGACAGAGCCCGCCAGACCC
AGCAACTTCTCTCAGCATCTTCTCCACTCCCTGCATCAGCAAAGGGCCAACAGCCGGCA
GATGTAAGTGGTACAGCCTTGCCAGGGTGGGCCCCGTGAGGCCCACTGGCCAGGACTGG
AATCACACCCCCAGAAGACAGACCATCCATCTGCCCTGCTCAGAGACCCCGGAGCCA
GGCTCTCCAGGATCTCATCACTGCGCCCCAGGGCCTCAGCAACCCCTCCACCCTCTCT
GCTCAGCCACAGCTTTCCAGAAGCCACTCTCGGGCAGCGTGTGCCCTTTGGGGAGCTG
GAGGGCAGGAGGACACAGGGATCGGAGGAGCCCGCAGAGCCAGAAGGAGGACCAAGNN
NNNNNNNNNGCAGCCAGGCCCTGCCCGTTTTAACTCCGTTCTTTGACTGACACAGGC
CATGAGAGGAGTCCGAGGGATCCTCCAGCCCGCAGCTCCAGGAGTCTGTCTTCCACCTG
CTGGTGCCAGTGTATCCTGGTCTTGCTGGCCGTGGGAGGCTCTTGTCTACAGGTGG
AGGCGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGAGGCAACCAGAGGGC
AGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTGTAG
    
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Clone variation with respect to NM_000757.5
 1095 c=>a;1379 c=>n;1380 a=>n;1381 a=>n;1382 g=>n;1383 t=>n;1384 g=>n;1385 a=>n;1386 a=>n;1387 g=>n;1388 g=>n;1389 g=>n

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000757 unedited
GTTTCGATTTGTATACGACTTATATAGGGCGGCCGGAATTCGCACGAGGAGGGCTGGC
CAGTGAGGCTCGGCCGGGAAAGTAAAAGTTTGCCTGGGTCTCTCGGCAGAGCCG
CTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCACTCCGCAGCAGCC
AGCGAGCGAGCGAGCGAGCGAGGGCGGCCGACGCGCCCGGGGACCCAGCTGCCCGTA
TGACCGCGCCGGGCGCCCGGGCGCTGCCCTCCCACGACATGGCTGGGCTCCCTGCTGT
TGTTGGTCTGTCTCCTGGCGAGCAGGAGTATCACCGAGGAGGTGTCGGAGTACTGTAGCC
ACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAGA
CCTCGTGCCAAATTACATTTGAGTTTGTAGACCAGGAACAGTTGAAAGATCCAGTGTGCT
ACCTTAAGAAGGCATTTCTCCTGGTACAAGACATAATGGAGGGACACCATGCGCTTCAGA
GATAACACCCCCAATGCCATCGCCATTGTGCAGCTGCAGGAACTCTCTTTGAGGCTGAA
GAGCTGCTTACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTCATAGG
AGACACCTCTCCATTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCC
TTGACAGGGACTGGGAATATTTTCAGCAAGAAGTCAACAACAGCCTTGCTGAGTGTCC
ACCCAGAAGTGGTGACCAAGCCTGATGGCAATGCCTGTGCCCCAAAACCATCCCTAGCAG
TGACCCGGCCTCTGGGTTCCCTAATAAGCCCCTTGCCCCCTCTGGGGCTGGGGGCTGG
GCTGACCCGGGAGGACTCTGAGGGAACG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000757 unedited AGAGCTGGNATAGTGGAGACGGTCGGTTGCTGGCTCATGGATGGACCGGGGCAGGCTGTT CAGCAAGCAGGTACAGTGTTACAGTGCAATGGCTTCCTTCATGAGGGGAGCCTCTGCTT GGCCTCCTGGAGAAGCTCTGGCAGGTGCTGGAAGGAGGAGGGGCAGAGGCTGTGCTTGA TCCCCCTCTTGGCATCACTGGCAGGTGAGGAGGCTCCTGAGGGCAGGGCTGGCCTCCCCT GTGCGCCTGGCAACCAGCACAGGGCACTTATGTGAGCCGAGGGGTAGACCCTTCAGGCT CTCAGTGCAGACCAGGTCAGAGGCTCCTCTTCCCGTCTCTCAGGCTGCACACCTT TACGGGAAATCAGGCCGACGCTGTCCCGCCCCAGGAATTCAGGCTCCTCTCTGGAGA CAGGTCCATGCCTGTCCAGGCTGGGATACCTTGGCACCAGGCAGGCCCTCTGGGTGCAGG GTTCTTTCACTCCTCAGCGTCCACCCTGCTTCCCAAAACCACAAGCCGGTGGGTCCCT GGGCTGGGTTCCGGCATGGAAGGGAGTGAGAGGAGGGTGACGCCCTGAGGGAAGAGGG TCCTGAGCCGGGGTCACCAACCTTTCTCAAGCACATGGGAGCCTCCAGGGCTCACAAT AAATAGTGGCACCCCTGGGAGCATCCCTCTGGGCTGTTTTCTTTCATTCAAAGGGTCTG CCGGGTTGGGACAAAAGGGCCCCAGCCCGGCTGCCCTGGTCCCAATCCCTGGAAGCCA GTACCTCTGGGTGAGGGCAAACACATTCTCAGAGA
Restriction Sites:	Please inquire
ACCN:	NM_000757
Insert Size:	3000 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 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
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:	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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript 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).</p>