

Product datasheet for **MG226827**

Csf1 (NM_007778) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Csf1 (NM_007778) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Csf1
Synonyms:	C87615; Csfm; MCSF; op
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226827 representing NM_007778
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCGCGGGGGCGCCGGGGCGCTGCCCTTCTTCGACATGGCTGGGCTCCCGCTGCTGCTGGTCT
 GTCTCCTCATGAGCAGGAGTATTGCCAAGGAGGTGTAGAACAACACTGTAGCCACATGATTGGGAATGGACA
 CCTGAAGTCTCGACAGCTTGTATCGACAGTCAATGGAGACTTCATGCCAGATTGCCTTTGAATTTGTA
 GACCAGGAACAGCTGGATGATCCTGTTTGTACCTAAAGAAGGCCTTTTTTCTGGTACAAGACATAATAG
 ATGAGACCATGCGCTTTAAAGACAACACCCCAATGCTAACGCCACCGAGAGGCTCCAGGAATCTCCAA
 TAACCTGAACAGCTGCTTACCAAGGACTATGAGGAGCAGAACAAGGCCTGTGTCCGAACCTTCCATGAG
 ACTCCTCTCCAGCTGCTGGAGAAGATCAAGAATCTTTAATGAAACAAGAATCTCCTTGAAGGACT
 GGAACATTTTTACCAAGAACTGCAACAACAGCTTTGCTAAGTGTCTAGCCGAGATGTGGTGACCAAGCC
 TGATTGCAACTGCCTGTACCCTAAAGCCACCCCTAGCAGTGACCCGGCCTCTGCCTCCCTCACCAGCCC
 CCCGCCCTCCATGGCCCTCTGGCTGGCTTGGCTTGGGATGATTCTCAGAGGACAGAGGGCAGCTCCC
 TCTTGCCAGTGAGCTTCCCCTTCGCATAGAGGACCCAGGCAGTGCCAAGCAGCGACCCACCCAGGAGTAC
 CTGCCAGACCCTCGAGTCAACAGAGCAACAAACCATGGGGACAGACTCACTGAGGACTCACAACCTCAT
 CCTTCTGCGGGGGGGCCCGTCCCTGGGGTGAAGACATTTCTTGAATCTTCACTGGGCACTAACTGGGTCC
 TAGAAGAAGCTTCTGGAGAGGCTAGTGAGGGATTTTTGACCCAGGAAGCAAAGTTTTCCCCTCCACGCC
 TGTAGGGGGCAGCATCCAGGCAGAGACTGACAGACCCAGGGCCCTCTCAGCATCTCCATTCCTAAATCA
 ACAGAGGACAAAAGCCAGTGGATATAACAGACAGGCCGTTGACAGAGGTGAACCTATGAGACCCATTG
 GCCAGACACAGAATAACTCTCTGAGAAGACTGATGGTACATCCACGCTGCGTGAAGACCCAGGAGCC
 AGGCTCTCCCATATTGCGACACCGAATCCCAACGAGTCAGCAACTCAGCCACCCCGTTGCTCAGTTA
 CTGCTTCCAAAAGCCACTCTTGGGGCATTGTGCTGCCCTTGGGGAGCTTGAGGGCAAGAGAAGTACCA
 GGGATCGAAGGAGCCCGCAGAGCTGGAAGGAGGATCAGCAAGTGAAGGGGACCCAGGCCTGTGGCCCG
 TTTAATTCCATTCCTTTGACTGACACAGGCCATGTGGAGCAGCATGAGGGATCTCTGACCCCAAGATC
 CCTGAGTCTGTCTCCACCTGCTGGTCCGGGCATCATCTAGTCTTGTGACTGTTGGGGGCTCTGT
 TCTACAAGTGAAGTGGAGGAGCCATCGAGACCCTCAGACATTGGATTCTTGTGGGGCGACCAGAGGA
 CAGCTCCCTGACCCAGGATGAGGACAGACAGGTGGAAGTCCAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226827 representing NM_007778
 Red=Cloning site Green=Tags(s)

MTARGAAGRCPSTWLGSRLLL VCLLMSRSIAKEVSEHCSHMIGNHGLKVLQQLIDSQMETSCQIAFEFV
 DQEQLDDPVCYLKKAFFLVQDIIDETMRFDNTPNANATERLQELSNLNSCFKDYEEQNKACVRFHE
 TPLQLLEKIKNFFNETKNLLEKDWNIIFTKNCNSFAKCSSRDVVTKPDCNCLYPKATPSSDPASASPHQ
 PAPSMAPLAGLAWDDSQRTEGSSLLPSELPLRIEDPGSAKQRPPRSTCQTESTEQPNHGDRLTEDSQPH
 PSAGGPVPGVEDILESSLGTNWNVLEEASGEASEGFLTQEAKFSPSTPVGGSIQAE TDRPRAL SASPFKS
 TEDQKPVDI TDRPLTEVNPMRPIGQTQNNTPKTDGTSTLREDHQEPGSPHIATPNPQRVSNSATPVAQL
 LLPKSHSWGIVLPLGELEGKRSTRDRRSPAEEGGSASEGAARPVARFNSIPLTDTGHVEQHEGSSDPQI
 PESVFHLLVPGIILVLLTVGGLLFYKWKWRSHRDPQTLDSVGRPESSLTQDEDRQVELPV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_007778
ORF Size:	1656 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:	<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_007778.4 , NP_031804.3
RefSeq Size:	4192 bp
RefSeq ORF:	1659 bp
Locus ID:	12977
UniProt ID:	P07141
Cytogenetics:	3 46.83 cM
Gene Summary:	Cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance. [UniProtKB/Swiss-Prot Function]