

Product datasheet for **RC600012**

MCSF Receptor (CSF1R) (NM_005211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCSF Receptor (CSF1R) (NM_005211) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	MCSF Receptor
Synonyms:	BANDDOS; C-FMS; CD115; CSF-1R; CSFR; FIM2; FMS; HDLS; M-CSF-R
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RC600012 representing leader sequence plus the extracellular domain region of NM_005211

Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
CGATCGCC

ATGGGCCAGGAGTTCTGCTGCTCTGCTGGTGGCCACAGCTTGGCATGGTCAGGAATCCCAGTGATAG
AGCCCAGTGTCCCTGAGCTGGTCTGAAGCCAGGAGCAACGGTGACCTTGCATGTGTGGCAATGGCAG
CGTGGAATGGGATGGCCCCCATCACTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGC
ACCAACAACGCTACCTTCCAAAACACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCA
GCGCCGCCATCCACCTCTATGTCAAAGACCCTGCCCGCCCTGGAACGTGCTAGCACAGGAGGTGGTCTG
GTTGAGGACCAGGACGCACTACTGCCCTGTCTGCTCACAGACCCGGTGTGGAAGCAGGCGTCTCGCTG
GTGCGTGTGCGTGGCCGGCCCTCATGCCACACCAACTACTCCTTCTCGCCCTGGCATGGCTTACCA
TCCACAGGGCCAAGTTCATTAGAGCCAGGACTATCAATGCAGTGCCTGATGGGTGGCAGGAAGGTGAT
GTCATCAGCATCCGGCTGAAAGTGCAGAAAGTATCCCAGGGCCCCAGCCTTGACACTGGTGCCTGCA
GAGCTGGTGGGATTTCGAGGGGAGGCTGCCAGATCGTGTGCTCAGCCAGCAGCGTTGATGTTAACTTTG
ATGTTCTTCTCCAACAACAACAACCAAGCTCGCAATCCCTCAACAATCTGACTTTCATAATAACCGTTA
CCAAAAAGTCTGACCCTCAACCTCGATCAAGTAGATTTCCAACATGCCGGAACACTCCTGCGTGGCC
AGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGGTGGTAGAGAGTGCTACTTGAACCTGA
GCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGCTCAACCTCAAAGTATGGTGGAGGC
CTACCCAGGCCTGCAAGGTTTTAACTGGACCTACCTGGGACCTTTTCTGACCACCAGCCTGAGCCCAAG
CTTGCTAATGCTACCACCAAGGACACATACAGGCACACCTTACCCTCTCTGCCCCGCTGAAGCCCT
CTGAGGCTGGCCGCTACTCCTTCCCTGGCCAGAAACCCAGGAGGCTGGAGAGCTCTGACGTTTGAGCTCAC
CCTTCGATACCCCCAGAGGTAAGCGTCATATGGACATTCATCAACGGCTCTGGCACCTTTTGTGTGCT
GCCTCTGGGTACCCCAAGCCCAACGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGG
CCCAAGTGTGAGGCTGGGATGACCCATACCCTGAGGTCTGAGCCAGGAGCCCTTCCACAAGGTGAC
GGTGCAGAGCCTGCTGACTGTTGAGACCTTAGAGCACAACCAACCTACGAGTGCAGGGCCACAACAGC
GTGGGGAGTGGCTCTGGGCCTCATACCCATCTCTGCAGGAGCCACACGCATCCCCGGATGAGTTCC
TCTTCACACCA

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA

Protein Sequence:

>RC600012 representing signal peptide plus the extracellular domain region of NM_005211

Red=Cloning sites Green= DDK and 6XHIS Tags

MGPVGLLLLLLVATAWHGQGIPVIEPSVPELVVVKPGATVTLRCVGNVSVEWDGPPSPHWTLYSDGSSSILS
TNNATFQNTGTYRCTEPGDPLGGSAAIHLVYKDPARPWNVLAQEVVVFEDQDALLPCLLTDVLEAGVSL
VRVGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGRKVMYSISIRLKVQKVIPGPPALTLVPA
ELVIRIGEAAQIVCSASSVDVNFVFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVA
SNVQGHSTSMFFRVVESAYLNLSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLPFSDHQPEPK
LANATTKDITYRHTFTLSLPRLPSEAGRYSFLARNPGGWRALTFELTLRYPPEVSVIWTFFINGSGTLLCA
ASGYQPQNVTLQCSGHTDRCDEAQVLQVWDDPYPEVLSQEPFHKVTQSLLTVETLEHNQTYECRAHNS
VSGSWAFIPISAGAHTHPDEFLLFTP

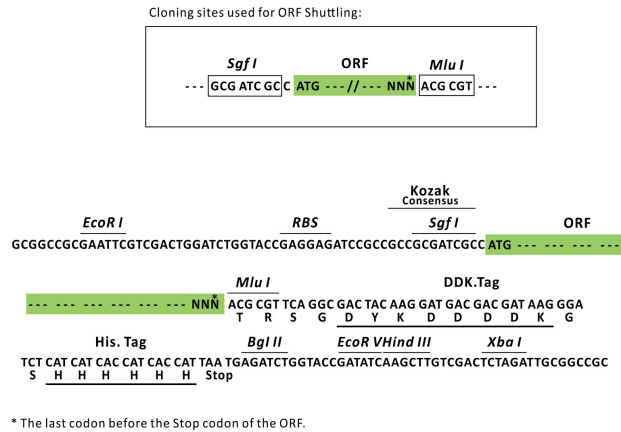
TRSGTRSGDYKDDDDKGSHHHHHH

Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_d05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005211

ORF Size: 1551 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 extra cellular domain of the protein 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_005211.3](#), [NP_005202.2](#)

RefSeq Size: 4006 bp

RefSeq ORF: 2919 bp

Locus ID: 1436

UniProt ID: [P07333](#)

Cytogenetics: 5q32

Domains:	ptkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Hematopoietic cell lineage, Pathways in cancer
MW:	57 kDa
Gene Summary:	<p>The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines and anaplastic large cell lymphoma. [provided by RefSeq, Mar 2017]</p>