

Product datasheet for **RG205288**

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:	TurboGFP
Symbol:	MCSF Receptor
Synonyms:	BANDDOS; C-FMS; CD115; CSF-1R; CSFR; FIM2; FMS; HDLS; M-CSF-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG205288 representing NM_005211
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAGGAGTTCTGCTGCTCTGCTGGTGGCCACAGCTTGGCATGGTCAGGGAATCCCAGTGATAG
 AGCCCAGTGTCCCTGAGCTGGTCTGAAGCCAGGAGCAACGGTGACCTTGCATGTGTGGCAATGGCAG
 CGTGGAATGGGATGGCCCCCATCACTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGC
 ACCAACACGCTACCTTCCAAAAACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCA
 GCGCCGCATCCACCTCTATGTCAAAGACCCTGCCGGCCCTGGAACGTGCTAGCACAGGAGGTGGTCTG
 GTTCGAGGACCAGGACGCACTACTGCCCTGTCTGCTCACAGACCCGGTGTGGAAGCAGGCGTCTCGCTG
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 TCCACAGGGCCAAGTTCATTAGAGCCAGGACTATCAATGCAGTGCCTGATGGGTGGCAGGAAGGTGAT
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 GAGCTGGTGGGATTTCGAGGGGAGGCTGCCAGATCGTGTGCTCAGCCAGCAGCCTTGATGTTAACTTTG
 ATGCTTCTCCTCAACACAACAACAACCAAGCTCGCAATCCCTCAACAATCTGACTTTCATAATAACCGTTA
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 AGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGTGGTAGAGAGTGCCACTTGAACCTTGA
 GCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGGCTCAACCTCAAAGTATGGTGGAGGC
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 CTTGCTAATGCTACCACAAGGACACATACAGGCACACCTTACCCTCTCTGCCCCGCTGAAGCCCT
 CTGAGCTGGCCGCTACTCCTTCTGGCCAGAAACCCAGGAGGCTGGAGAGCTCTGACCTTGAAGCTCAC
 CCTTCGATACCCCCAGAGGTAAGCGTCATATGGACATTATCAACGGCTCTGGCACCCCTTTGTGTGCT
 GCCTCTGGGTACCCCCAGCCACGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGG
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 GGTGCAGAGCCTGCTGACTGTTGAGACCTTAGAGCACAACCAACCTACGAGTGCAGGGCCACAACAGC
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 GTACAAGTATAAGCAGAAGCCCAAGTACCAGTCCGCTGGAAGATCATCGAGAGCTATGAGGGCAACAGT
 TATACTTTCATCGACCCACGCAGTGCCTTACAACGAGAAGTGGGAGTCCCCCGGAACAACCTGCAGT
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 GGATGCTGTCTGAAGGTGGCTGTGAAGATGCTGAAGTCCACGGCCCATGCTGATGAGAAGGAGGCCCTC
 ATGTCCGAGCTGAAGATCATGAGCCACCTGGGCCAGCAGAGAACATCGTCAACCTTCTGGGAGCCTGTA
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 GCCTGTGAAGTGGATGGCCCCAGAGAGCATCTTTGACTGTGTCTACACGGTTAGAGCGACGCTGGTCC
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 AGTTCTATAAACTGGTGAAGGATGGATACCAAATGGCCAGCCTGCATTTGCCCCAAGAATATATACAG
 CATCATGCAGGCCTGCTGGCCCTGGAGCCACCCACAGACCCACCTTCCAGCAGATCTGCTCCTCCTT
 CAGGAGCAGGCCAAGAGGACAGGAGAGAGCGGGACTATACCAATCTGCCGAGCAGCAGCAGAAGCGGTG
 GCAGCGCAGCAGCAGCAGTGTGAGCTGGAGGAGGAGAGCTAGTGAGCACCTGACCTGCTGCGAGCAAGG
 GGATATCGCCAGCCCTTCTGTCAGCCCAACAACATATCAGTTCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG205288 representing NM_005211
 Red=Cloning site Green=Tags(s)

MGPGVLLLLLVATAWHGQGIPVIEPSVPELVVVKPGATVTLRCVGNNGSVEWDGPPSPHWLTYSDGSSSILS
 TNNATFQNTGTyrCTEPGDPLGGSAAIHLVYKDPARPWNVLAQEVVVFEDQDALLPCLL TDPVLEAGVSL
 VRVRGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGGKRVMSISIRLKVQKVIPGPPALTLVPA
 ELVVRIRGEAAQIVCSASSVDVNFDFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSVA
 SNVQGGKSTSMFFRVVESAYLNLSSQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLGPFSDHQPEPK
 LANATTKDtyRHFTLSLPRPKPSEAGRYSFLARNPGWRALTFELTLRYPPPEVSVIWTFFINGSGTLLCA
 ASGYPPQNVTLQCSGHTDRCDQAQVLQVWDDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNS
 VGSWSWAFIPISAGAHTHPPDEFLLFTPVVACMSIMALLLLLLLLLLLKYKQKPKYQVRWKIIESYEGNS
 YTFIDPTQLPYNEKWEFPRNQLQFGKTLGAGAFGKVVVEATAFGLGKEDAVLKVAVKMLKSTAHADKEAL
 MSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRKAEAMLGPSLSPGQDPEGGVDYK
 NIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSNDSFSEQDLKEDGRPLELRDLLHFSSQVAQGMFLA
 SKNCIHRDVAARNVLLTNGHVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEIFDCVYTVQSDVWS
 YGILLWEIFSLGLNPYPGILVNSKFYKLVKDGQMAQPAFAPKNIYSIMQACWALEPTHRPTFQQICSLF
 QEQAQEDRRERDYTNLPSSRSRGGSGSSSELEEESSSEHLTCCEQGDIAQPLLQPNNYQFC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005211

ORF Size: 2916 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](#)

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:

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: 3985 bp

RefSeq ORF: 2919 bp

Locus ID: 1436

UniProt ID: [P07333](#)

Cytogenetics: 5q32

Domains: pkinase, TyrKc, S_TKc, ig, IGc2, IG

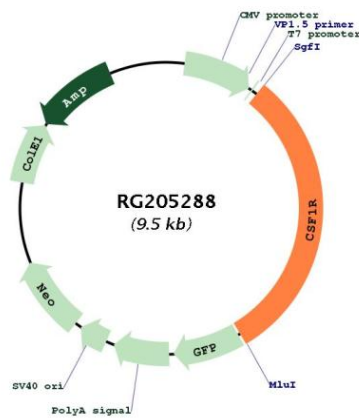
Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, Endocytosis, Hematopoietic cell lineage, Pathways in cancer

Gene Summary:

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]

Product images:



Circular map for RG205288