

Product datasheet for **RG228347**

GM CSF Receptor alpha (CSF2RA) (NM_001161530) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GM CSF Receptor alpha (CSF2RA) (NM_001161530) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSF2RA
Synonyms:	alphaGMR; CD116; CDw116; CSF2R; CSF2RAX; CSF2RAY; CSF2RX; CSF2RY; GM-CSF-R-alpha; GMCSFR; GMCSFR-alpha; GMR; GMR-alpha; SMDP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228347 representing NM_001161530
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTTCTCCTGGTGACAAGCCTTCTGCTCTGTGAGTTACCACACCCAGCATTCTCCTGATCCCAGAGA
 AATCGGATCTGCGAACAGTGGCACCAGCCTCTAGTCTCAATGTGAGGTTTACTCCAGGACGATGAATTT
 AAGCTGGGACTGCCAAGAAAACACAACCTTCAGCAAGTGTTCCTTAAGTACAAGAAGAAGAGTCTGTG
 GAACCCAGGCTCAGTAACAACGAATGTTTCGTGCACATTTTCGTGAAATTTGTCTGCATGAAGGAGTACAT
 TTGAGGTTTACGTGAATACTAGTCAAAGAGGATTTCAACAGAACTGCTTTATCCAAATTCAGGAAGGGA
 GGGTACCGCTGCTCAGAATTTCTCTGTTTCATCTACAATGCGGATTTAATGAACGTACCTGGGCGAGG
 GGTCCGACGGCCCCCGTACGTCCAGTATTTTTGTACATACGAACTCAAAGAGAAGGAGGGAGATCC
 GGTGTCCTTATTACATAAAGACTCAGGAACCCATGTGGGATGTCACCTGGATAACCTGTCAGGATTAAC
 GTCTCGCAATTACTTTCTGGTTAACGGAACCCAGCCGAGAAATTTGGCATCCAATTCCTTTGATTCACTTTT
 GACACAAAAGAAAATAGAACGATTCAACCTCCAGCAATGTCACCGTACGTTGCAACACGACGACTGCC
 TCGTACGGTGAAACAGCCAGGACCTATCAGAAGCTGTCGTACCTGGACTTTCAGTACCAGCTGGACGT
 CCACAGAAAGAATACCCAGCCTGGCAGGAAAACCTACTGATTAATGTTTCTGGTGATTTGGAAAATAGA
 TACAACCTTTCAGCTCTGAGCCAGAGCAAAACAGTGTGAAGATCAGAGCTGCAGACGTCGCCATCT
 TGAATTGGAGCTCCTGGAGTGAAGCCATTGAATTTGGGTCTCACTCTGTCACCCAGGCTGGAGTGAATG
 GCACAATCTCGGCTCACTGCAACCTCCGTCTCCAGGCTCAAGCGATTCTCCTGCCTCAGACTCCAGGT
 TCTGACGACGGGAACCTCGGCTCTGTGTACATTTATGTGCTCCTAATCGTGGGAACCTTGTCTGTGGCA
 TCGTCCCTCGGCTTCTCTTTAAAAGTTTCTTAGGATACAGCGGCTGTTCCCGCCAGTTCACAGATCAA
 AGACAAAAGTGAATGATAACCATGAGGTGGAAGACGAGATCATCTGGGAGGAATTCACCCAGAGGAAGGG
 AAAGGCTACCGGAAGAGGTCTTGACCGTGAAGGAAATTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228347 representing NM_001161530
 Red=Cloning site Green=Tags(s)

MLLLVTSLLLCELPHPAFLLIPEKSDLRTVAPASSLNVRFDSTMNLSWDCQENTTFSKCFLTDKKNRVV
 EPRLSNNECSCTFREICLHEGVTFEVHVNTSQRGFQKLLYPNSGREGTAAQNFSCFIYNADLMNCTWAR
 GPTAPRDVQYFLYIRNSKRRREIRCPYYIQDSGTHVGHLDNL SGLTSRNYFLVNGTSREIGIQFFDSSL
 DTKKIERFNPPSNVTVRCNTTHCLVVRWKQPRTYQKLSYLDYQYQLDVHRKNTQPGTENLLINVSGLLENR
 YNFPSSSEPRAKHSVKIRAADVRIILNWSWSEAIIEFGSHSVTQAGVQWHNLGSLQPPSPRLKRFSLRLPG
 SDDGNLGSVYIYVLLIVGTLVCGIVLGLFKRFLRIQRLFPVPQIKDKLNDNHEVEDEIIEWEFTPEEG
 KGYREEVLTVKEIT

TRTRPLE - GFP Tag - V

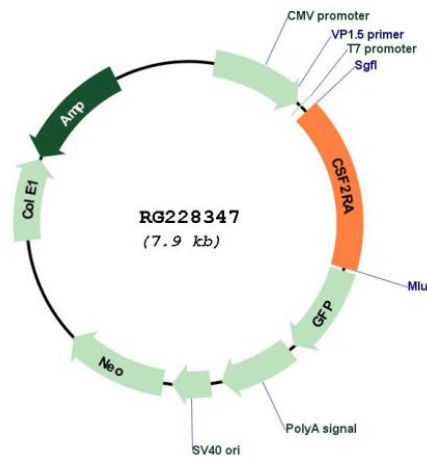
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161530

ORF Size: 1302 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_001161530.2
RefSeq Size:	1789 bp
RefSeq ORF:	1305 bp
Locus ID:	1438
UniProt ID:	P15509
Cytogenetics:	X;Y
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Pathways in cancer
Gene Summary:	The protein encoded by this gene is the alpha subunit of the heterodimeric receptor for colony stimulating factor 2, a cytokine which controls the production, differentiation, and function of granulocytes and macrophages. The encoded protein is a member of the cytokine family of receptors. This gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple transcript variants encoding different isoforms have been found for this gene, with some of the isoforms being membrane-bound and others being soluble. [provided by RefSeq, Jul 2008]