

Product datasheet for SC124940

GM CSF Receptor alpha (CSF2RA) (NM_172249) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GM CSF Receptor alpha (CSF2RA) (NM_172249) Human Untagged Clone
Tag:	Tag Free
Symbol:	GM CSF Receptor alpha
Synonyms:	alphaGMR; CD116; CDw116; CSF2R; CSF2RAX; CSF2RAY; CSF2RX; CSF2RY; GM-CSF-R-alpha; GMCSFR; GMCSFR-alpha; GMR; GMR-alpha; SMDP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172249, the custom clone sequence may differ by one or more nucleotides

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ATGCTTCTCCTGGTGACAAGCCTTCTGCTCTGTGAGTTACCACACCCAGCATTCTCCTGATCCCAGAGA
AATCGGATCTGCGAACAGTGGCACCAGCCTCTAGTCTCAATGTGAGGTTTGACTCCAGGACGATGAATTT
AAGCTGGGACTGCCAAGAAAACACAACCTTCAGCAAGTGTTCCTTAAGTACAAGAAGAAGAGAGTCGTG
GAACCCAGGCTCAGTAACAACGAATGTTTCGTGCACATTTTCGTGAAATTTGTCTGCATGAAGGAGTCACAT
TTGAGGTTACGTGAATACTAGTCAAAGAGGATTTCAACAGAACTGCTTTATCCAAATTCAGGAAGGGA
GGGTACCGCTGCTCAGAATTTCTCCTGTTTCATCTACAATGCGGATTTAATGAACTGTACCTGGGCGAGG
GGTCCGACGGCCCCCGTGACGTCCAGTATTTTTGTACATACGAACTCAAAGAGAAGGAGGGAGATCC
GGTGTCTTATTACATAAAGACTCAGGAACCCATGTGGGATGTCACCTGGATAACCTGTCAGGATTAAC
GTCTCGCAATTACTTTCTGGTTAACGGAACCCAGCCGAGAAATGGCATCCAATTCTTTGATTCACTTTTG
GACACAAAGAAAATAGGTTCTTAGGATACAGCGGCTGTCCCGCCAGTCCACAGATCAAAGACAACT
GA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172249 unedited GCCCGGGCCACCAACCCCTCCCCCNGGTTCAAATTTGNATACGATTACTATAGGC GGCCGCGNAATTCGCACCANAAAAAGCGGTGGAAGGAGAGGAAGCGGATGCCGTGGGG TTTACAGCAGGAAAATCCGTGGAGACAGCAGATCCGAGAAGCGGCGATGTTTGCCTAGAA CCCTGTACGTGCTTCCTTCGGCCTGTCGCTCTTCCCTTCTCTGACCAGCACCATGCTT CTCCTGGTGACAAGCCTTCTGCTCTGTGAGTTACCACACCCAGCATTCTCCTGATCCCA GAGAAATCGGATCTGCGAACAGTGGCACCAGCCTCTAGTCTCAATGTGAGGTTTGACTCC AGGACGATGAATTTAAGCTGGGACTGCCAAGAAAACACAACCTTACGCAAGTGTTTCTTA ACTGACAAGAAGAACAGAGTCGTGGAACCCAGGCTCAGTAACAACGAATGTTCTGTCACA TTTCGTGAAATTTGTCTGCATGAAGGAGTCACATTTGAGGTTACGTTGAATACTAGTCAA AGAGGATTTCAACAGAACTGCTTTATCCAAATTCAGGAAGGGAGGGTACCGCTGCTCAG AATTTCTCTGTTTCATCTACCAATGCGATTTAATGAACTGTACCTGGGCGAAGGGTCCG ACGGCCCCCGTGACGTCCAGTATTTTTGTACATACGAACTCANAGAGAAGGAGGGAG ATCCGGTGTCTTATTTACATACAGACTCANGAACCCATGNTGGATGTCACCTGGATAAC CTGTCAGGATTAACGTCTCGCATTACTTTCTGGNTACGGNACAGCCGAGAAATGGCACTC CATCTTTGATTCACTTTTGACCCAAGAAAATAGACGATTACCCCTTCCAGCATGTACGCT ACGTGGCACCCGACGCACTGCCGTACGTGGAACGCCCCAGACTATAAAGTGCCTACTG
Restriction Sites:	NotI-NotI
ACCN:	NM_172249
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_172249.1</u> , <u>NP_758452.1</u>
RefSeq Size:	1458 bp
RefSeq ORF:	1458 bp
Locus ID:	1438
UniProt ID:	<u>P15509</u>
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]
Transcript Variant: This variant (6) lacks four coding exons, which causes a frameshift, compared to variant 1. The resulting isoform (e), which is likely soluble, is shorter and has a distinct C-terminus compared to isoform a.