

Product datasheet for **SC124061**

CD16 (FCGR3A) (NM_000569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD16 (FCGR3A) (NM_000569) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD16
Synonyms:	CD16; CD16A; FCG3; FCGR3; FCGRIII; FCR-10; FCRIII; FCRIIIA; IGFR3; IMD20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124061 sequence for NM_000569 edited (data generated by NextGen Sequencing)

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ATGGGTGGAGGGCTGGGAAAGGCTGTTACTTCTCCTGTCTAGTCGGTTTGGTCCCT
TTAGGGCTCCGGATATCTTTGGTGAATTGTCTCTCCAGTGTGGCATCATGTGGCAGCTG
CTCCTCCAAGTCTGCTACTTCTAGTTTCAGCTGGCATGCGACTGAAGATCTCCA
AAGGCTGTGGTGTCTGGAGCCTCAATGGTACAGGGTCTCGAGAAGGACAGTGTGACT
CTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAGTGGTTTCACAATGAG
AGCCTCATCTCAAGCCAGGCCTCGAGTACTTCATTGACGCTGCCACAGTCGACGACAGT
GGAGAGTACAGGTGCCAGACAACTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTC
CATATCGGCTGGCTGTTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATT
CACCTGAGGTGTCACAGCTGGAAGAACACTGCTCTGCATAAGGTCACATATTTACAGAAT
GGCAAAGGCAGGAAGTATTTTCATCATAATTCTGACTTCTACATTCAAAAGCCACACTC
AAAGACAGCGGCTCCTACTTCTGCAGGGGGCTTGTGGGAGTAAAAATGTGTCTTCAGAG
ACTGTGAACATCACCATCACTCAAGTTTGGCAGTGTCAACCATCTCATCTTTCCA
CCTGGGTACCAAGTCTCTTTCTGCTTGGTGATGGTACTCCTTTTTGCAGTGGACACAGGA
CTATATTTCTCTGTGAAGACAAACATTCGAAGCTCAACAAGAGACTGGAAGGACCATAAA
TTAAATGGAGAAAGGACCCTCAAGACAAATGA

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Clone variation with respect to NM_000569.6
93 a=>t;634 t=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000569 unedited
 NNCCCAACGCCTTCACGATTTGTGAAACGACTTCTATAGGCGGCACGCGATTCCCGGGCA
 GATTCTGTGTGTCTCCTCAGCAGCTCAGCCACAGACCTTTGAGGGAGTAAAGGGGGCAGA
 CCCACCCACCTTGCCCTCAGGCTCTTTCCTTCTGGTCTGTTCTATGGTGGGCTCCCT
 TGCCAGACTTCAGACTGAGAAGTCAGATGAAGTTCAAGAAAAGGAAATGGTGGGTGAC
 AGAGATGGGTGGAGGGGCTGGGAAAAGGCTGTTTACTTCCTCCTGTCTAGTCAGTTTGGT
 CCCTTTAAGGCTCCGGATATCTTTGGTGACTTGTCTCTCCAGTGTGGCATCATGTGGCA
 GCTGCTCCTCCCAACTGCTCTGCTACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCT
 CCCAAAGGCTGTGGTGTCTGGAGCCTCAATGGTACAGGGTGTCTGAGAAAAGACAGTGT
 GACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAGTGGTTTCACAA
 TGAGAGCCTCATCTCAAGCCAGGCTCGAGCTACTTCATTGACGCTGCCACAGTCGACGA
 CAGTGGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGA
 AGTCCATATCGGCTGGCTGTTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACC
 TATTCACCTGAAGTGTACAGCTGGAAGAACACTGCTCTGCATAAAGTCACATATTTACA
 AGATGGCAAAAAGCAGGAAGTATTTTCATATAATTCTGACTTCTACATTCAAAAGCCAC
 ACTCAAAGACAGCGGCTCCTACTTCTGCAAGGGAGCTTGTGGGAGTAAAATGTGTCTT
 CAGAAACTGTGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000569 unedited
 NAGGGTCAAGGGTGCCACCCGGGTATCTGTTCAAGAAAACAGCTATGACCGGGCCGCA
 ATCTACAGCGGCCGCCCTCTTTTTNTTTTTATTTATTTTTATTTTTCTTTTTTAT
 CATTCATATTTTATTACCATGGTTTTCCCATCTTCTATCTAAAAGTAACATGCAATTTT
 TTTAAAATGCTTTATTGGAACCAAAAAATGTTGCGCTTAAAGCTTACAAAACAAAGACAG
 CTAAGCTTTCTTTCATAAACAACAATTGTCTTCTCCATCCCCACCTTATTGGAAGTAC
 ATGATGAAAGATTTGAAAGTTTCATAACTTAACTCAGCGAAGCTCAGTAGTACATTTAGT
 ATGGTTATACAACATTTGTTTAAATAAATGCAATGAACAAAGTACACAGGAATTATATA
 TTGAAGCAAAAAAGTGGTTTTACAGTCCCTGCATTAACCTCTAATTTCTACTACCCTGG
 CCAAAAAAGCATTTTACCTCCTGCGCTTTCCTTCTGTGTGCTTGAGGTTGGTTCTTTC
 TTCTCAAGCTTTCTCATTCTGATGCTGAGATAGTTCTGTTCACTTAGCAACTTGGGACAG
 AGACACAAGGTTTGTCTGTACTTTCTTTTCCACCCACCCCCACCGAAATCCTCAATC
 CCCTTCCTAAGACCATTTCTACTCCTAACATTAAGAAAGACTCATCGTTATATACTTGAG
 AAATGGTCCAATTCTTATAAAAATCCCCCTGGAAGACTCTATTTCTACCTCCCCCATGA
 ATTTCTGGTAATTCCCCCTACGGTTATAGTTTTAAGAAAACACCTTTTTTCTGGGGCT
 AAGATGGAACCACCCCTTAACTATCCTGGACT

Restriction Sites:

Please inquire

ACCN:

NM_000569

Insert Size:

873 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_000569.6 , NP_000560.5
RefSeq Size:	2406 bp
RefSeq ORF:	873 bp
Locus ID:	2214
UniProt ID:	P08637
Cytogenetics:	1q23.3
Domains:	ig, IG
Protein Families:	ES Cell Differentiation/IPS, Secreted Protein, Transmembrane
Protein Pathways:	Fc gamma R-mediated phagocytosis, Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus
Gene Summary:	<p>This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1) retains an intron in its 5' UTR and 5' coding region compared to variant 3. The encoded isoform (a) has a longer and distinct N-terminus compared to isoform c. This isoform (a) lacks a predicted signal peptide compared to isoform c.</p>