

Product datasheet for **SC119841**

CD64 (FCGR1A) (NM_000566) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD64 (FCGR1A) (NM_000566) Human Untagged Clone
Tag: Tag Free
Symbol: CD64
Synonyms: CD64; CD64A; FCRI; IGFR1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000566 edited
 CCAGCTTGAGACAACATGTGGTTCTTGACAACCTCTGCTCCTTTGGGTTCCAGTTGATGG
 GCAAGTGGACACCACAAAGGCAGTGATCACTTTGCAGCCTCCATGGGTCAGCGTGTCCA
 AGAGGAAACCGTAACCTTGCACTGTGAGGTGCTCCATCTGCCTGGGAGCAGCTCTACACA
 GTGGTTTCTCAATGGCACAGCCACTCAGACCTCGACCCCGAGCTACAGAATCACCTCTGC
 CAGTGTCAATGACAGTGGTGAATACAGGTGCCAGAGAGGTCTCTCAGGGCGAAGTGACCC
 CATACAGCTGGAAATCCACAGAGGCTGGCTACTACTGCAGGTCTCCAGCAGAGTCTTCAC
 GGAAGGAGAACCTCTGGCCTTGAGGTGTCATGCGTGGAAGGATAAGCTGGTGTACAATGT
 GCTTTACTATCGAAATGGCAAAGCCTTTAAGTTTTTCCACTGGAATTCTAACCTCACCAT
 TCTGAAAACCAACATAAGTCACAATGGCACCTACCATTGCTCAGGCATGGGAAAGCATCG
 CTACACATCAGCAGGAATATCTGCACTGTGAAAGAGCTATTTCCAGCTCCAGTGTGAA
 TGCATCTGTGACATCCCCACTCCTGGAGGGGAATCTGGTACCCTGAGCTGTGAAACAAA
 GTTGCTCTTGAGAGGCCTGGTTTGAGCTTTACTTCTCCTTCTACATGGGCAGCAAGAC
 CCTGCGAGGCAGGAACACATCCTCTGAATACCAAATACTAACTGTAGAAAGAGAAGACTC
 TGGGTTTACTGGTGGCAGGCTGCCACAGAGGATGGAAATGTCCTTAAGCGCAGCCCTGA
 GTTGGAGCTTCAAGTGTGGCTCCAGTTACCAACTCCTGTCTGGTTTCATGTCCTTTT
 CTATCTGGCAGTGGGAATAATGTTTTAGTGAACACTGTCTCTGGGTGACAATACGTAA
 AGAACTGAAAAGAAAAGAAAAGTGAATTTAGAAATCTCTTTGGATTCTGGTTCATGAGAA
 GAAGGTAATTTCCAGCCTTCAAGAAGACAGACATTTAGAAGAAGAGCTGAAATGTCAGGA
 ACAAAAAGAAGAACAGCTGCAGGAAGGGGTGCACCGGAAGGAGCCCGAGGGGCCACGTA
 GCAGCGGCTCAGTGGGTGGCCATCGATCTGGACCGTCCCCTGCCACTTGTCCCCGTGA
 GCACTGCGTACAAAACATCCAAAAGTTCAACAACACCAGAAGTGTGTGCTCATGGTATAT
 AACTCTTAAAGCAAATAAATGAACTGACTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000566 unedited
 AGTTTAGGATATTTGTATACGACTTACTATAGGGNNCGGCCGCGCAATTCGGCACGAGGC
 CAGCTTGGAGACACATGTGGTCTTGACAACCTCTGCTCCTTTGGGTTCCAGTTGATGGGC
 AAGTGGACACCACAAAGGCAGTGATCACTTTGCAGCCTCCATGGGTCAGCGTGTCCAAG
 AGGAAACCGTAACCTTGCAGTGTGAGGTGCTCCATCTGCCTGGGAGCAGCTCTACACAGT
 GGTTCCTCAATGGCACAGCCACTCAGACCTCGACCCCACTACAGAATCACCTCTGCCA
 GTGTCAATGACAGTGGTGAATACAGGTGCCAGAGAGGTCTCTCAGGGCGAAGTGACCCCA
 TACAGCTGGAAATCCACAGAGGCTGGCTACTACTGCAGGTCTCCAGCAGAGTCTTCACGG
 AAGGAGAACCTCTGGCCTTGAGGTGTCATGCGTGGAAAGGATAAGCTGGTGTACAATGTGC
 TTTACTATCGAAATGGCAAAGCCTTTAAGTTTTTCCACTGGAATTCTAACCTCACCATT
 TGAANACCAACATAAGTCACAATGGCACCTACCATTGCTCANGCATGGGAAAGCATCGCT
 ACACATCAGCAGGAATATCTGTCACTGTAAAGAGCTATTTCCAGCTCCAGTGTGAATG
 CATCTGTGACATCCCACTCCCTGGAGGGAATCTGGGTCACTGAGCTGTAAACANAGT
 TGCTCTTGACAGGCCTGGTTTGCAGCTTTACTTCTNCTTCTACATGGGCAGCAAGACCC
 TGCGAGGCANGAACACATCCTCTGAATACCAAATACTAAGTCTAGAAAGAGAAGAACTCT
 GGTATACTGNTGCGAGGCTGCCACAGAGATGGAATGTNCTNAGCGCAGCCTGAGTTGAG
 CTCAGTGCTTGCCTCCATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000566 unedited
 CGGCCGCAATCTAAAGTCGAGTT
 TTTTTTTTTTTTTGAAAGCAGTTCATTTATTTGCTTTAAAAGATTATTTACCCTGAAACA
 CACAGTTCTGGGTTTGTGAACCTTTGGATGTTTGTACCCAATGCTCACGGGGAACAAGT
 GGGCAGGGGACGGTCCAATCGATGGCCACCCACTGAGCCGCTGTACGTGGCCCTGG
 GGCTTCTTTCGGGCACCCCTTTCTGCAACTGGTTTTTTTTTTTGGTCTGACATTTCAAC
 TTTTTTTTTAAATGTCTGTCTTTTTGAAGGGTGAAATTACCTTTTTTTTTATGACCAAAA
 TCCAAAAAATTTCTAAATTCACCTTTTTTTTTTTTTTCAATTCTTTACCTATTGGCACC
 CAAAAACAGTGTTCACATAAAACATTATTCCTACTGCCCGATAGAAAAGGACCTGAAAC
 CCGACCGGAGTTGGTAACCTGGAGGCCAAACACTTGAAACTCCAACCTCAGGGCTGCGCTTA
 AGGACATTTCCATCCTTTGTGGCAGCCTCCCACCAATAAACC AAAAGTCTTCTCTTTTA
 ACAGTTAATATTTGGTATTCAAAGGATGTGTTCCCTGCCTCCCAGGGTCTTGCTGCCCATG
 TANAAGGAGAAGTAAAGCTGCAAACAGGCCTCTCAAGACAACCTTTGGTTACAGCTTCA
 GGTGACCAAATTCCTCCAGAGTGGGGATGCACAGATGCCTTCAGCACTGGACCTGGAA
 TAACTCTTTC AAGGACCGAATTCCTGCTGATGGTAACGAAGTTTTCTTGCCGAGCAA
 GGGAGCGCCACTGGGACTTAGTGTGGTTTCAAAATGGGAGGTTAAAATTCAGGGGAAAAC
 TAAAGCTTGGCTTTTCAATGTAACCATGTACACACTTTTCTTCCGCCTGACCCTAGA
 GCCCAGGTTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_000566

Insert Size:

1300 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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:	<p>NM_000566.2, NP_000557.1</p>
RefSeq Size:	<p>2230 bp</p>
RefSeq ORF:	<p>1125 bp</p>
Locus ID:	<p>2209</p>
UniProt ID:	<p>P12314</p>
Cytogenetics:	<p>1q21.2</p>
Domains:	<p>ig, IGc2, IG</p>
Protein Families:	<p>Transmembrane</p>
Protein Pathways:	<p>Fc gamma R-mediated phagocytosis, Hematopoietic cell lineage, Systemic lupus erythematosus</p>
Gene Summary:	<p>This gene encodes a protein that plays an important role in the immune response. This protein is a high-affinity Fc-gamma receptor. The gene is one of three related gene family members located on chromosome 1. [provided by RefSeq, Jul 2008]</p>