

Product datasheet for **SC112914**

CD32A (FCGR2A) (NM_021642) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD32A (FCGR2A) (NM_021642) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD32A
Synonyms:	CD32; CD32A; CDw32; FCG2; FcGR; FCGR2; FCGR2A1; IGFR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021642, the custom clone sequence may differ by one or more nucleotides

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ATGACTATGGAGACCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTGACAG
TTTTGCTGCTGGCTTCTGCAGACAGTCAAGCTGCTCCCCAAAGGCTGTGCTGAAACTTGAGCCCC
GTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGGCTCGCAGCCCTGAGAGCGAC
TCCATTCAAGTGGTTCCACAATGGGAATCTCATTCCCACCCACACGCAGCCAGCTACAGGTTCAAGGCCA
ACAACAATGACAGCGGGGAGTACACGTGCCAGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGAC
TGTGCTTCCGAATGGCTGGTGTCCAGACCCCTCACCTGGAGTCCAGGAGGGAGAAACCATCATGCTG
AGGTGCCACAGCTGGAAGGACAAGCCTCTGGTCAAGGTCACATTCTCCAGAATGGAAAATCCCAGAAAT
TCTCCATTTGGATCCCACCTTCTCCATCCCACAAGCAAACCACAGTCACAGTGGTGATTACCACTGCAC
AGGAAACATAGGCTACACGCTGTTCTCATCCAAGCCTGTGACCATCACTGTCCAAGTGCCAGCATGGGC
AGCTCTTACCAATGGGGATCATTGTGGCTGTGGTCATTGCGACTGCTGTAGCAGCCATTGTTGCTGCTG
TAGTGGCCTTGATCTACTGCAGGAAAAAGCGGATTTCCAGCAATTCCTGATCCTGTGAAGGCTGCCCA
ATTTGAGCCACCTGGACGTCAAATGATTGCCATCAGAAAGAGACAACCTTGAAGAAACCAACAATGACTAT
GAAACAGCTGACGGCGGTACATGACTCTGAACCCAGGGCACCTACTGACGATGATAAAAAATCTACC
TGACTCTTCTCCCAACGACCATGTCAACAGTAATAACTAA
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Restriction Sites:	NotI-NotI
ACCN:	NM_021642
Insert Size:	2250 bp



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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](#)

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_021642.3](#), [NP_067674.2](#)

RefSeq Size: 2426 bp

RefSeq ORF: 951 bp

Locus ID: 2212

UniProt ID: [P12318](#)

Cytogenetics: 1q23.3

Domains: ig, IGc2, IG

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Fc gamma R-mediated phagocytosis, Systemic lupus erythematosus

Gene Summary: This gene encodes one member of a family of immunoglobulin Fc receptor genes found on the surface of many immune response cells. The protein encoded by this gene is a cell surface receptor found on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2008]
 Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.