

## Product datasheet for **SC128159**

### CD32B (FCGR2B) (NM\_004001) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD32B (FCGR2B) (NM_004001) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD32B
Synonyms:	CD32; CD32B; FCG2; FCGR2; FCGR2C; FcRII-c; IGFR2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004001, the custom clone sequence may differ by one or more nucleotides

```
ATGGGAATCCTGTCATTCTTACCTGTCCTTGCCACTGAGAGTGACTGGGCTGACTGCAAGTCCCCCAGC  
CTTGGGGTCATATGCTTCTGTGGACAGCTGTGCTATTCTGGCTCCTGTTGCTGGGACACCTGCAGCTCC  
CCCAAAGGCTGTGCTGAAACTCGAGCCCCAGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACA  
TGCCGGGGGACTCACAGCCCTGAGAGCGACTCCATTCAAGTGGTTCCACAATGGGAATCTCATTCCCACCC  
ACACGCAGCCCAGCTACAGGTTCAAGGCCAACAAATGACAGCGGGGAGTACACGTGCCAGACTGGCCA  
GACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTTCTGAGTGGCTGGTCTCCAGACCCCTCACCTG  
GAGTTCAGGAGGGAGAAACCATCGTGTGAGGTGCCACAGCTGGAAGGACAAGCCTCTGGTCAAGGTCA  
CATTCTTCCAGAATGGAAAATCCAAGAAATTTTCCCGTTCCGATCCCAACTTCTCCATCCCAAGCAAA  
CCACAGTCACAGTGGTGATTACCACTGCACAGGAAACATAGGCTACACGCTGTACTCATCAAGCCTGTG  
ACCATCACTGTCCAAGCTCCCAGCTCTTACCAGTGGGGATCATTGTGGCTGTGGTCACTGGGATTGCTG  
TAGCGGCCATTGTTGCTGCTGTAGTGGCCTTGATCTACTGCAGGAAAAAGCGGATTTCCAGCTCTCCAGG  
ATACCTGAGTGCAGGAAAATGGGAGAGACCCTCCCTGAGAAAACCAAGCAATCCCACTAATCCTGATGAG  
GCTGACAAAGTTGGGGCTGAGAACACAATCACCTATTCACTTCTCATGCACCCGGATGCTCTGGAAGAGC  
CTGATGACCAGAACCGTATTTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004001 unedited  
 CAGTCAGATTTGTATACCATCACTATAGGCGGCCGCGATTCCCGGGATCTGCTGTGCTCT  
 GGGCGCCAGCTCGCTCCAGGAGTGATGGGAATCCTGTCTTTACCTGTCCTTGCCACT  
 GAGAGTGACTGGGCTGACTGCAAGTCCCCCAGCCTTGGGGTCATATGCTTCTGTGGACA  
 GCTGTGCTATTCTGGCTCCTGTTGCTGGGACACCTGCAGCTCCCCAAGGCTGTGCTGA  
 AACTCGAGCCCCAGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCGGG  
 GGACTCACAGCCCTGAGAGCGACTCCATTCAAGTGGTTCCACAATGGGAATCTCATTCCCA  
 CCCACACGACGCCAGCTACAGGTTCAAGGCCAACACAATGACAGCGGGGAGTACACGT  
 GCCAGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGACTGTGCTTTCTGAGTGCC  
 TGGTGCTCCAGACCCCTCACCTGGAGTTCAGGAGGGAGAAAACCATCGTGCTGAGGTGCC  
 ACAGCTGGAAAGACAAGCCTCTGGTCAAGGTCACATTCTCCAGAATGGAAAATCCAAGA  
 AATTTTCCCGTTCGATCCCACTTCTCCATCCCACAAGCAAACACAGTCACAGTGGTG  
 ATTACCACTGCACAGGTAACATATGCTACACGCTGGACTCATCAAGCCTGGGACCATCA  
 CTGTCAAAGTCCCCAGCTCTCACCCTGGGGATCATTGGGGCTGTGGGCACTGGGATTG  
 CCTGTAACGCCAATGGTGCCGCTGAATGGCCCTTGCTCACTGGAGGGAAAAACCGGATT  
 TAACCTTCTCAAGATAACCCGGGTCCGGGACAAGGGAGAAACCTTCCCGGGGAAACCA  
 GCCAATCCCACT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004001 unedited  
 NNNNNAAAACCTTTGGACGCGNCCGCCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTGGGTTAAAAAGGGTTTA  
 TAAAAAAGGAATATTTGGTCTTTTTGAAAAATAAGAAAATAAAAATCCTCCATAATT  
 TTTTCCCCCGAAACAATCACTTTTAAGGGCGGGGAGGGGGTAGTCTATTTAACATTT  
 CTGAAATCATATAGATTTACCGGTGGTCTCACGGAACCGGGAACAAAAGCCTTTCCCA  
 AGGGGGATTATCGGGTAAAAACAGGGGTTGGTTAAATGGATTGGCTGGGGGGTGGGG  
 AACGAAAAACCTTGGTGTCAAAAAAGCTGGAGCCAAAAGGGGCCGTCGGGCATTTGG  
 GGCCCTATTGGCTGGGGTTTCAGGGCAGGGGCTTCAGGGCCAGGGAGATGACTCTGG  
 GAAAAACCTTCTTTTTGGAACCTGGAGGATTTCCCTGGCTCCCCAGGGGGATTTAGGGC  
 CGGGAATACCCGATCTTCCCCCTTGGTTTTCTTCAAACCAATGGCAGACAAGGGG  
 GACTAAATACGGGTTTGGGCATTAGGGTTTTCAAAGCATCCGGGGCCTGAAAAGGGAA  
 TAGGGGATTGGGTCTCAGCCCCACTTTGGCAGCCTCATCAGGATTAAGGGGGATGGCT  
 GGGTTCTCAGGGAGGGGCTCTCCATTTCCCGGGCTAGGGGACCCGGGGGAGCTGGAA  
 ACCCCCTTTCTGGGAAGAACAAGGGCCCTACGGGGAAACAAGGGGGCGCTTAAAGG  
 AAACCCGGGGCCACCGCCCAAGGGCCCCCTCGG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004001

**Insert Size:**

1600 bp

**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](mailto: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\\_004001.3](#), [NP\\_003992.3](#)

**RefSeq Size:** 1633 bp

**RefSeq ORF:** 933 bp

**Locus ID:** 2213

**UniProt ID:** [P31994](#)

**Cytogenetics:** 1q23.3

**Domains:** ig, IGC2, IG

**Protein Families:** ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** B cell receptor signaling pathway, Fc gamma R-mediated phagocytosis, Systemic lupus erythematosus

**Gene Summary:**

The protein encoded by this gene is a low affinity receptor for the Fc region of immunoglobulin gamma complexes. The encoded protein is involved in the phagocytosis of immune complexes and in the regulation of antibody production by B-cells. Variations in this gene may increase susceptibility to systemic lupus erythematosus (SLE). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).