

## Product datasheet for **RC232339**

### CD16b (FCGR3B) (NM\_001244753) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD16b (FCGR3B) (NM\_001244753) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FCGR3B  
**Synonyms:** CD16; CD16A; CD16b; FCG3; FCGR3; FCGR3A; FCR-10; FCRIII; FCRIIIb  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232339 representing NM\_001244753  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTGGAGGGACTGGGAAAGGCTGTTACTCCCTCCTGTCTAGTCGGCTTGGTCCCTTAGGGCTCC  
GGATATCTTTGGTGACTTGCCACTCCAGTGTGGCATCATGTGGCAGCTGCTCCTCCAAGTCTGCTGCT  
ACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGG  
TACAGCGTGCTTGAGAAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCA  
CACAGTGGTTTACAATGAGAACCCTCATCTCAAGCCAGGCTCGAGCTACTTCATTGACGCTGCCACAGT  
CAACGACAGTGGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTC  
CATATCGGCTGGCTGTTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTCACCTGAGGT  
GTCACAGCTGGAAGAAGACTGCTCTGCATAAGGTACATATTTACAGAATGGCAAAGACAGGAAGTATTT  
TCATCATAATTCTGACTCCACATTCAAAAGCCACACTCAAAGATAGCGGCTCCTACTTCTGCAGGGGG  
CTTGTGGGAGTAAAAATGTGTCTTCAGAGACTGTGAACATCACCATCACTCAAGGTTTGGCAGTGTCAA  
CCATCTCATATTCTCTCCACCTGGGTACCAAGTCTTTCTGCTGGTGATGGTACTCCTTTTTGCAGT  
GGACACAGGACTATATTTCTCTGTGAAGACAAACATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232339 representing NM\_001244753  
Red=Cloning site Green=Tags(s)

MGGGTGERLFTPSCLVGLVPLGLRISLVTCP LQCGIMWQLLLPTALLLLVSAGMRTEDLPKAVVFLEPQW  
 YSVLEKDSVTLKCGAYSPEDNSTQWFHNENLISSQASSYFIDAATVNDSGEYRCQTNLSTLSDPVQLEV  
 HIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQNGKDRKYFHNSDFHIPKATLKDSGSYFCRG  
 LVGSKNVSSETVNITITQGLAVSTISSFSPPGYQVSFCLVMVLLFAVDTGLYFSVKTNI

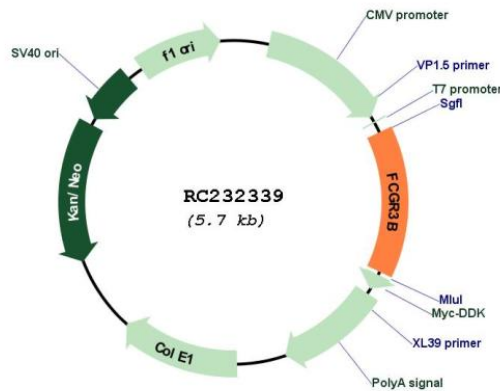
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001244753  
**ORF Size:** 807 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001244753.1](#), [NP\\_001231682.1](#)

**RefSeq Size:** 2394 bp

**RefSeq ORF:** 702 bp

**Locus ID:** 2215

**UniProt ID:** [O75015](#)

**Cytogenetics:** 1q23.3

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

**Protein Pathways:** Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus

**MW:** 30.3 kDa

**Gene Summary:** The protein encoded by this gene is a low affinity receptor for the Fc region of gamma immunoglobulins (IgG). The encoded protein acts as a monomer and can bind either monomeric or aggregated IgG. This gene may function to capture immune complexes in the peripheral circulation. Several transcript variants encoding different isoforms have been found for this gene. A highly-similar gene encoding a related protein is also found on chromosome 1. [provided by RefSeq, Aug 2012]