

Product datasheet for **RG232337**

CD16b (FCGR3B) (NM_001271035) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD16b (FCGR3B) (NM_001271035) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD16b
Synonyms:	CD16; CD16A; CD16b; FCG3; FCGR3; FCGR3A; FCR-10; FCRIII; FCRIIIb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232337 representing NM_001271035. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGTGGAGGGACTGGGAAAGGCTGTTACTCCCTCCTGTCTAGTCGGCTTGGTCCCTTTAGGGCTC
CGGATATCTTTGGTACTTGCCACTCCAGTGTGGCATCATGTGGCAGCTGCTCCTCCAACTGCTCTG
CTACTTCTAGTTTCAGCTGGCATGCGGACTGATCTCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGG
TACAGCGTGCTTGAGAAGGACAGTGTGACTCTGAAGTCCAGGGAGCCTACTCCCTGAGGACAATTCC
ACACAGTGGTTTCACAATGAGAACCTCATCTCAAGCCAGGCTCGAGCTACTTCATTGACGCTGCCACA
GTCAACGACAGTGGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAA
GTCCATATCGGCTGGCTGTTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTCACCTG
AGGTGTACAGCTGGAAGAACAATGCTCTGCATAAGGTACATATTTACAGAATGGCAAAGACAGGAAG
TATTTTCATCATAATTCTGACTTCCACATTCCAAAAGCCACACTCAAAGATAGCGGCTCCTACTTCTGC
AGGGGGCTTGTGGGAGTAAAAATGTGTCTTCAGAGACTGTGAACATCACCATCACTCAAGGTTTGGCA
GTGTCAACCATCTCATCTCTCCACCTGGGTACCAAGTCTCTTTCTGCTTGGTGATGGTACTCCTT
TTTGCAGTGGACACAGGACTATTTCTCTGTGAAGACAAACATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG232337
 Blue=ORF Red=Cloning site Green=Tag(s)

MGGGTGERLFTPSCLVGLVPLGLRISLVTCP LQC GIMWQLLLPTALLLLVSAGMRTDLPKAVVFLEPQW
 YSVLEKDSVTLKCGAYSPEDNSTQWFHNENLISSQASSYFIDAATVNDSGEYRCQTNLSTLSDPVQLE
 VHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVITYLQNGKDRKYFHNSDFHHPKATLKDSGSYFC
 RGLVGSKNVSSSETVNITITQGLAVSTISSFSPPGYQVSFCLVMVLLFAVD TGLYFSVK TNI
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271035

ORF Size: 804 bp

OTI Disclaimer: 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_001271035.1](#), [NP_001257964.1](#)

RefSeq Size: 2391 bp

RefSeq ORF: 699 bp

Locus ID: 2215

UniProt ID: [O75015](#)

Cytogenetics: 1q23.3

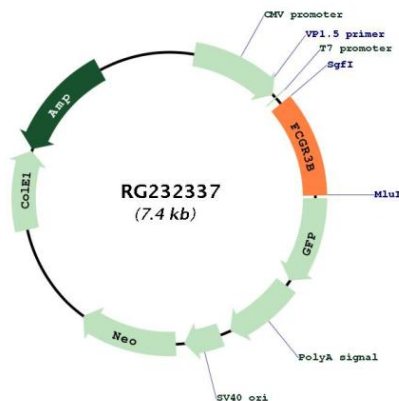
Protein Families: ES Cell Differentiation/IPS, Secreted Protein, Transmembrane

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

MW: 29.8 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]

Product images:



Circular map for RG232337