

Product datasheet for **RG232339**

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:	TurboGFP
Symbol:	FCGR3B
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:	>RG232339 representing NM_001244753 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGGAGGGACTGGGAAAGGCTGTTTACTCCCTCCTGTCTAGTCGGCTTGGTCCCTTTAGGGCTCC
GGATATCTTTGGTGACTTGTCCACTCCAGTGTGGCATCATGTGGCAGCTGCTCCTCCAAGTCTGTCTGCT
ACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCAAAGGCTGTGGTGTCTCTGGAGCCTCAATGG
TACAGCGTGCTTGAGAAGGACAGTGTACTCTGAAGTCCAGGGAGCCTACTCCCCTGAGGACAATTCCA
CACAGTGGTTTACAATGAGAACCTCATCTCAAGCCAGGCTCGAGCTACTTCATTGACGCTGCCACAGT
CAACGACAGTGGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTC
CATATCGGCTGGCTGTTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTACCTGAGGT
GTCACAGCTGGAAGAACAAGTCTGCTGCTGATAAGGTACATATTTACAGAATGGCAAAGACAGGAAGTATTT
TCATCATAAATTCTGACTTCCACATTTCAAAAAGCCACACTCAAAGATAGCGGCTCCTACTTCTGCAGGGGG
CTTGTGGGAGTAAAAATGTGTCTTCAGAGACTGTGAACATCACCATCAAGGTTTGGCAGTGTCAA
CCATCTCATCTCTCCACCTGGGTACCAAGTCTTTCTGCTTGGTGATGGTACTCCTTTTTGCAGT
GGACACAGGACTATATTTCTCTGTGAAGACAAACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232339 representing NM_001244753
 Red=Cloning site Green=Tags(s)

MGGGTGERLFTPSCLVGLVPLGLRISLVTCP LQC GIMWQLLLPTALLLLVSAGMRTEDLPKAVVFLEPQW
 YSVLEKDSVTLKCGAYSPEDNSTQWFHNENLISSQASSYFIDAATVNDSGEYRCQTNLSTLSDPVQLEV
 HIGWLLLQAPRWVFKEDPIHLRCHSWKNTALHKVTYLQNGKDRKYFHNSDFHHPKATLKDSSGSYFCRG
 LVGSKNVSSETVNITITQGLAVSTISSFSPPGYQVSFCLVMVLLFAVDTGLYFSVKTNI

TRTRPLE - GFP Tag - V

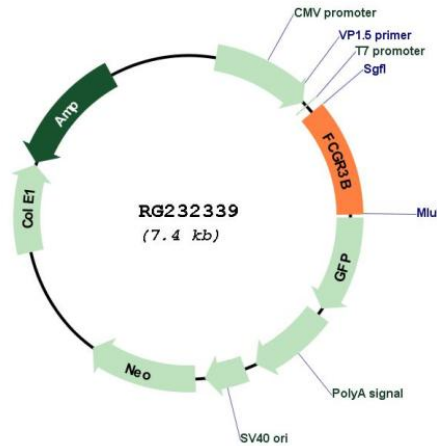
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001244753

ORF Size: 807 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</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_001244753.1, NP_001231682.1</p>
RefSeq Size:	<p>2394 bp</p>
RefSeq ORF:	<p>702 bp</p>
Locus ID:	<p>2215</p>
UniProt ID:	<p>O75015</p>
Cytogenetics:	<p>1q23.3</p>
Protein Families:	<p>ES Cell Differentiation/IPS, Secreted Protein, Transmembrane</p>
Protein Pathways:	<p>Natural killer cell mediated cytotoxicity, Systemic lupus erythematosus</p>
Gene Summary:	<p>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]</p>