

## Product datasheet for **RG207487**

### CD64 (FCGR1A) (NM\_000566) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD64 (FCGR1A) (NM_000566) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD64
Synonyms:	CD64; CD64A; FCRI; IGFR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207487 representing NM_000566 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGTCTTGACAACCTGCTCCTTTGGGTTCCAGTTGATGGGCAAGTGGACACCACAAAGGCAGTGA  
TCACTTTGCAGCCTCCATGGGTGAGCGTGTCCAAAGAGAAACCGTAACCTTGCATTGTGAGGTGCTCCA  
TCTGCCTGGGAGCAGCTACACAGTGGTTTCTCAATGGCACAGCCACTCAGACCTCGACCCCGAGCTAC  
AGAATCACCTCTGCCAGTGTCAATGACAGTGGTGAATACAGGTGCCAGAGAGGTCTCTCAGGGCGAAGTG  
ACCCCATACAGCTGGAATCCACAGAGGCTGGCTACTACTGCAGGTCTCCAGCAGAGTCTTCACGGAAGG  
AGAACCTCTGGCCTTGGAGGTGCATGCGTGAAGGATAAGCTGGTGTACAATGTGCTTTACTATCGAAAT  
GGCAAAGCCTTTAAGTTTTTCCACTGGAATTCTAACCTCACCATCTGAAAACCAACATAAGTCACAATG  
GCACCTACCATTGCTCAGGCATGGGAAAGCATCGCTACACATCAGCAGGAATATCTGTCAGTGTGAAAGA  
GCTATTTCCAGCTCCAGTGTGAATGCATCTGTGACATCCCACTCCTGGAGGGGAATCTGGTCACCCTG  
AGCTGTGAAACAAAGTTGCTCTTGAGAGGCTGGTTTGAGCTTTACTTCTCCTTCTACATGGGACGCA  
AGACCCCTGCGAGGCGAGGAACACATCCTCTGAATACAAATACTAAGTCTAGAAAGAGAAGACTCTGGGT  
ATACTGGTGGAGGCTGCCACAGAGGATGGAATGTCTTAAGCGCAGCCCTGAGTTGGAGCTTCAAGTG  
CTTGGCCTCCAGTTACCAACTCTGTCTGGTTTCATGTCTTTTCTATCTGGCAGTGGGAATAATGTTTT  
TAGTGAACACTGTTCTCTGGGTGACAATACGTAAGAAGTGAAGAAAGAAAGAAAGTGGGATTTAGAAAT  
CTCTTTGGATTCTGGTATGAGAAGAAGTAATTTCCAGCCTTCAAGAAGACAGACATTTAGAAGAAGAG  
CTGAAATGTCAGGAACAAAAGAAGAACAGCTGCAGGAAGGGGTGCACCGGAAGGAGCCCGAGGGGCCA  
CG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207487 representing NM\_000566  
 Red=Cloning site Green=Tags(s)

MWFLTLLLLWVPVDGQVDTTKAVITLQPPWVSVFQEETVTLHCEVLHLPSSSTQWFLNGTATQTSTPSY  
 RITSASVNDSGEYRCQRGLSGRSDPIQLEIHRGWLLLQVSSRVFTEGEPLALRCHAWKDKLVYNVLYRN  
 GKAFKFFHWNSNLTILKTNISHNGTYHCSGMGKHRYTSAGISVTVKELFPAPVLNASVTSPLLEGNLVTL  
 SCETKLLLQRPGLQLYFSFYMGSKTLRGRNTSSEYQILTARREDSGLYWCEAATEDGNVLRSPLELQV  
 LGLQLPTPVWFHVLFLYLAVGIMFLVNTVLVWVIRKELKRKKKWDLEISLDSGHEKKVISSLQEDRHLEEE  
 LKCQEKEEQLQEGVHRKEPQGAT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000566

**ORF Size:** 1122 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\\_000566.2](#), [NP\\_000557.1](#)

**RefSeq Size:** 2230 bp

**RefSeq ORF:** 1125 bp

**Locus ID:** 2209

**UniProt ID:** [P12314](#)

**Cytogenetics:** 1q21.2

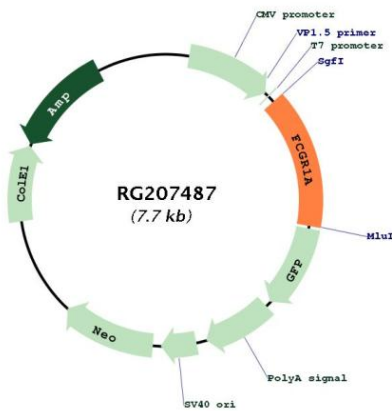
**Domains:** ig, IGc2, IG

**Protein Families:** Transmembrane

**Protein Pathways:** Fc gamma R-mediated phagocytosis, Hematopoietic cell lineage, Systemic lupus erythematosus

**Gene Summary:** This gene encodes a protein that plays an important role in the immune response. This protein is a high-affinity Fc-gamma receptor. The gene is one of three related gene family members located on chromosome 1. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG207487