

Product datasheet for **RG227758**

CD32A (FCGR2A) (NM_001136219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD32A (FCGR2A) (NM_001136219) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD32A
Synonyms:	CD32; CD32A; CDw32; FCG2; FcGR; FCGR2; FCGR2A1; IGFR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227758 representing NM_001136219 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTATGGAGACCCAAATGTCTCAGAATGTATGTCCCAGAAACCTGTGGCTGCTTCAACCATTGACAG
TTTTGCTGCTGGCTTCTGCAGACAGTCAAGCTGCTCCCCAAAGGCTGTGCTGAAACTTGAGCCCC
GTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGGCTCGCAGCCCTGAGAGCGAC
TCCATTCAGTGGTCCACAATGGGAATCTCATTCCCACCCACACGCAGCCAGCTACAGGTTCAAGGCCA
ACAACAATGACAGCGGGGAGTACACGTGCCAGACTGGCCAGACCAGCCTCAGCGACCCTGTGCATCTGAC
TGTGCTTTCCGAATGGCTGGTGTCCAGACCCCTCACCTGGAGTTCAGGAGGGAGAAACCATCATGCTG
AGGTGCCACAGCTGGAAGGACAAGCCTCTGGTCAAGGTACATTCTCCAGAATGGAAAAATCCAGAAAT
TCTCCCGTTTGGATCCCACCTTCTCCATCCCACAAGCAAACCACAGTACAGTGGTGATTACCACTGCAC
AGGAAACATAGGCTACACGCTGTCTCATCCAAGCCTGTGACCATCACTGTCCAAGTGCCAGCATGGGC
AGCTCTTACCAATGGGGATCATTGTGGCTGTGGTCAATGCGACTGCTGTAGCAGCCATTGTTGCTGCTG
TAGTGGCCTTGATCTACTGCAGGAAAAAGCGGATTTAGCCAATTCCTGATCCTGTGAAGGCTGCCCA
ATTTGAGCCACCTGGACGTCAAATGATTGCCATCAGAAAGAGACAACCTGAAGAAACCAACAATGACTAT
GAAACAGCTGACGGCGGCTACATGACTTGAACCCAGGGCACCTACTGACGATGATAAAAAATCTACC
TGACTTTCCTCCCAACGACCATGTCAACAGTAATAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227758 representing NM_001136219
Red=Cloning site Green=Tags(s)

MTMETQMSQNVCPRLWLLQPLTVLLLLASADSQAAPPKAVLKLEPPWINVLQEDSVLTCQGARSPE
 SIQWFHNGNLIPHTHTQPSYRFKANNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQ
 EGETIMLRCHSWKDKPLVKVTFVFQNGKSQKFSRLDPTFSIPQANSHSHSGDYHCTGNI
 GYTLFSSKPVITVQVPSMGSSSPMGIIVAVVIATAVAIAVAIVALIYCRKKRISANSTDPV
 KAAQFEPFPGRQMI AIRKRQLEETNNDYETADGGYMTLNPRAPTDDDKNIYLTLPND
 HVNSNN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136219

ORF Size: 951 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_001136219.1](#), [NP_001129691.1](#)

RefSeq Size: 2429 bp

RefSeq ORF: 954 bp

Locus ID: 2212

UniProt ID: [P12318](#)

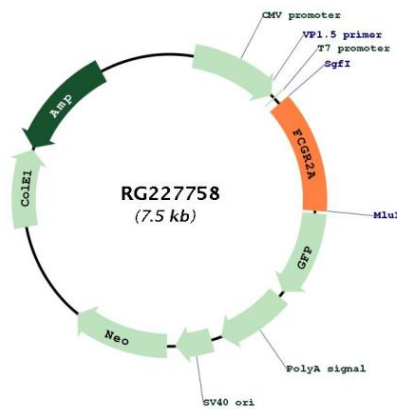
Cytogenetics: 1q23.3

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Fc gamma R-mediated phagocytosis, Systemic lupus erythematosus

Gene Summary: This gene encodes one member of a family of immunoglobulin Fc receptor genes found on the surface of many immune response cells. The protein encoded by this gene is a cell surface receptor found on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG227758