

Product datasheet for RG214356

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CD89 (FCAR) (NM 133273) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CD89 (FCAR) (NM_133273) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: FCAR

Synonyms: CD89; CTB-61M7.2; FcalphaRI

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG214356 representing NM_133273

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGTGTCAGCCAGGATTGACCTTTGCACGAACACCAAGTGTCTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214356 representing NM_133273

Red=Cloning site Green=Tags(s)

MDPKQTTLLCLGDFPMPFISAKSSPVIPLDGSVKIQCQAIREAYLTQLMIIKNSTYREIGRRLKFWNETD PEFVIDHMDANKAGRYQCQYRIGHYRFRYSDTLELVVTDSIHQDYTTQNLIRMAVAGLVLVALLAILVEN

 ${\tt WHSHTALNKEASADVAEPSWSQQMCQPGLTFARTPSVCK}$

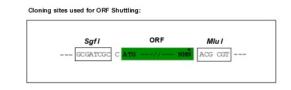
TRTRPLE - GFP Tag - V

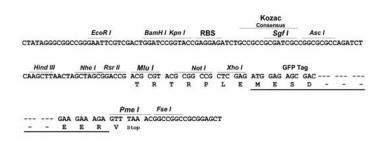
Restriction Sites: Sgfl-Mlul



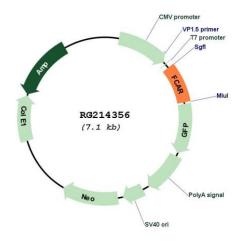


Cloning Scheme:





Plasmid Map:



ACCN: NM_133273

ORF Size: 537 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.

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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: <u>NM 133273.2</u>, <u>NP 579807.1</u>

 RefSeq Size:
 1347 bp

 RefSeq ORF:
 540 bp

 Locus ID:
 2204

 UniProt ID:
 P24071

 Cytogenetics:
 19q13.42

Protein Families: Transmembrane

Gene Summary: This gene is a member of the immunoglobulin gene superfamily and encodes a receptor for

the Fc region of IgA. The receptor is a transmembrane glycoprotein present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, where it mediates immunologic responses to pathogens. It interacts with IgA-opsonized targets and triggers several immunologic defense processes, including phagocytosis, antibody-dependent cell-mediated cytotoxicity, and stimulation of the release of inflammatory mediators. Multiple alternatively spliced transcript variants encoding different isoforms have been described for

this gene. [provided by RefSeq, Jul 2008]