

## Product datasheet for **RG214590**

### CD89 (FCAR) (NM\_133278) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD89 (FCAR) (NM_133278) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FCAR
Synonyms:	CD89; CTB-61M7.2; FcalphaRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214590 representing NM_133278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCCCAAACAGACCACCCTCCTGTGTCTTGGGGACTTTCCCATGCCTTTCATATCTGCCAAATCGA  
GTCCTGTGATTCCTTGGATGGATCTGTGAAAATCCAGTGCCAGGCCATTCGTGAAGCTTACCTGACCCA  
GCTGATGATCATAAAAACTCCACGTACCGAGAGATAGGCAGAAGACTGAAGTTTGGAAATGAGACTGAT  
CCTGAGTTCGTCATTGACCACATGGACGCAAACAAGGCAGGGCGCTATCAGTGCCAATATAGGATAGGGC  
ACTACAGATTCGGTACAGTGACACCCTGGAGCTGGTAGTGACAGGCTTGTATGGCAAACCTTCTCTC  
TGACAGATCGGGTCTGGTGTGATGCCAGGAGAGAATATTTCCCTCACGTGCAGCTCAGCACACATCCCA  
TTTGATAGATTTTCACTGGCCAAGGAGGAGAAGTTTCTCTGCCACAGCACCAAAGTGGGGAACACCCGG  
CCAACCTCTCTTTGGGTCTGTGGACCTCAATGTCTCAGGGATCTACAGGTGCTACGACTCCATCCACCA  
AGATTACACGACGCAGAACTTGATCCGCATGGCCGTGGCAGGACTGGTCTCTGGTCTCTTTGGCCATA  
CTGTTGAAAATTGGCACAGCCATACGGCACTGAACAAGGAAGCCTCGGCAGATGTGGCTGAACCGAGCT  
GGAGCCAAACAGATGTGTACGCCAGGATTGACCTTGCACGAACACCAAGTGTCTGCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214590 representing NM\_133278  
Red=Cloning site Green=Tags(s)

MDPKQTLLCLGDFPMPFISAKSSPVIPLDGSVKIQCQAIREAYLTQLMIKKNSTYREIGRRLKFWNETD  
 PEFVIDHMDANKAGRYQCQYRIGHYRFRYSDTLLELVVTGLYGKPFLSADRGLVLMPGENISLTCSSAHIP  
 FDRFSLAKEGELSLPQHQSGEHPANFSLGPVDLNVSGIYRCYDSIHQDYTTQNLIRMAVAGLVLVALLAI  
 LVENWHSHTALNKEASADVAEPSWSQMCQPLTFARTPSVCK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_133278

**ORF Size:** 759 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133278.2</a> , <a href="#">NP_579812.1</a>
<b>RefSeq Size:</b>	1569 bp
<b>RefSeq ORF:</b>	762 bp
<b>Locus ID:</b>	2204
<b>UniProt ID:</b>	<a href="#">P24071</a>
<b>Cytogenetics:</b>	19q13.42
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]