

## Product datasheet for **RG203321**

### Fc epsilon RI (FCER1A) (NM\_002001) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fc epsilon RI (FCER1A) (NM_002001) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FCER1A
Synonyms:	FCE1A; FcERI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203321 representing NM_002001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCTGCCATGGAATCCCCTACTCTACTGTGTGTAGCCTTACTGTTCTTCGCTCCAGATGGCGTGT  
TAGCAGTCCCTCAGAAACCTAAGGTCTCCTTGAACCTCCATGGAATAGAATATTTAAAGGAGAGAATGT  
GACTCTTACATGTAATGGGAACAATTTCTTTGAAGTCAGTTCACCAAATGGTCCACAATGGCAGCCTT  
TCAGAAGAGACAAATCAAGTTTGAATATTGTGAATGCCAAATTTGAAGACAGTGGAGAATACAAATGTC  
AGCACCAACAAGTTAATGAGAGTGAACCTGTGTACCTGGAAGTCTCAGTACTGGCTGCTCCTTCAGGC  
CTCTGCTGAGGTGGTGTATGGAGGCCAGCCCTTCTCAGGTGCCATGGTTGGAGGAAGTGGGATGTG  
TACAAGGTGATCTATTATAAGGATGGTGAAGCTCTCAAGTACTGGTATGAGAACCACAACATCTCCATTA  
CAAATGCCACAGTTGAAGACAGTGAACCTACTACTGTACGGGCAAAGTGTGGCAGCTGGACTATGAGTC  
TGAGCCCTCAACACTACTGTAATAAAAGCTCCGCGTGAGAAGTACTGGCTACAATTTTTATCCCATTG  
TTGGTGGTGAATCTGTTTGTGTGGACACAGGATTATTTATCTCAACTCAGCAGCAGGCCACATTTCTCT  
TGAAGATTAAGAGAACCAGGAAAGGCTTCAGACTTCTGAACCCACATCCTAAGCCAAACCCCAAAAAACA  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203321 representing NM\_002001  
 Red=Cloning site Green=Tags(s)

MAPAMESPTLLCVALLFFAPDGLVAVPQKPKVSLNPPWNRIFKGENVTLTCNGNNFFEVSSTKWFHNGSL  
 SEETNSSLNIVNAKFEDSGEYKQCQHQVNESEPVYLEVFSDWLLLQASAEVVMGQPLFLRCHGWRNWDV  
 YKVIYYKDGEALKYWYENHNISITNATVEDSGTYCTGKVVQLDYESEPLNITVIKAPREKYWLQFFIPL  
 LVVILFAVDTGLFISTQQQATFLLKIKRTRKGFRLLNPHPKPNPKNN

TRTRPLE - GFP Tag - V

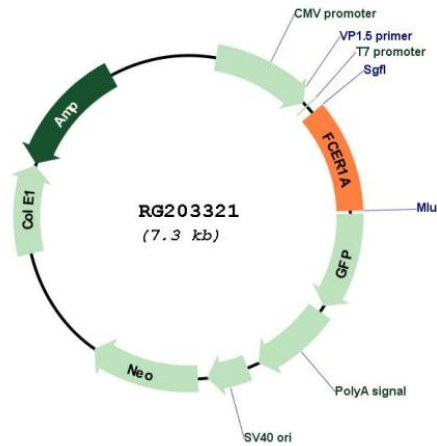
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_002001

**ORF Size:** 771 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_002001.2</a> , <a href="#">NP_001992.1</a>
<b>RefSeq Size:</b>	1191 bp
<b>RefSeq ORF:</b>	774 bp
<b>Locus ID:</b>	2205
<b>UniProt ID:</b>	<a href="#">P12319</a>
<b>Cytogenetics:</b>	1q23.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Asthma, Fc epsilon RI signaling pathway
<b>Gene Summary:</b>	The immunoglobulin epsilon receptor (IgE receptor) is the initiator of the allergic response. When two or more high-affinity IgE receptors are brought together by allergen-bound IgE molecules, mediators such as histamine that are responsible for allergy symptoms are released. This receptor is comprised of an alpha subunit, a beta subunit, and two gamma subunits. The protein encoded by this gene represents the alpha subunit. [provided by RefSeq, Aug 2011]