

Product datasheet for **MG226932**

Fcer1a (NM_010184) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fcer1a (NM_010184) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fcer1a
Synonyms: Fce1a; fcepsilonri; FcERI; Fcr-5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226932 representing NM_010184
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCACTGGAAGGTCTGCCAGCTGTGCCTAGCACTGCTGTTTCATGTCTCTTGATGTCATTCTGACAG
CCACTGAGAAATCTGTAAGTACCTTGGACCCACCATGGATTAGAATATTTACAGGAGAGAAAGTGACCCCT
TTCCTGCTATGGGAACAATCACCTTCAAATGAAGTCTACTACTAAATGGATCCACAATGGTACCGTCTCT
GAGGTGAAGTCTTACATTTGGTATTGTGAGTGCCACCGTTCAAGACAGTGGAAAATACATATGTCAGA
AGCAAGGATTGTTAAGAGTAAACCTGTGACTTGAATGTAACGCAAGATTGGCTGCTCCTCAGACATC
TGCTGACATGATCTTAGTCCATGGATCCTTTGACATCAGATGCCATGGCTGGAAGAACTGGAATGTCCGC
AAGGTGATCTACTACAGGAATGACCATGCTTTCAACTACAGTTATGAGAGCCCCGTCTCCATTAGAGAGG
CCACACTGAATGACAGTGGCACCTACCACTGCAAGGGCTATCTTAGGCAGGTGGAATATGAATCTGACAA
ATTCAGAAATTGCTGTAGTAAAAGCTTACAAATGCAAGTATTATTGGCTACAATAATTTCCATTGTTG
GTGGCGATTCTGTTTGTGTGGACACGGGGTTATTGCTCTCAACCGAAGAACAGTTCAAATCAGTCTTGG
AGATTCAGAAGACTGGAAAATACAAGAAAGTTGAAACCGAACTCCTAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226932 representing NM_010184
 Red=Cloning site Green=Tags(s)

MVTGRSAQLCLALLFMSLDVILTATEKSVLTLDPWPWIRIFTGEKVTLSCYGNHLQMNSTTKWIHNGTVS
 EVNSSHLVIVSATVQDSGKYICQKQGLFKSKPVYLNVTQDWLLQLQTSADMILVHGSFDIRCHGWKNWNR
 KVIYYRNDHAFNYSYESPVSIREATLNDSTYHCKGYLRQVEYESDKFRIAVVKAYKCKYYWLQLIFPLL
 VAILFAVDTGLLLSTEEQFKSVLEIQKTGKYKKVETELLT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_010184

ORF Size: 750 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_010184.1](#)

RefSeq Size: 1026 bp

RefSeq ORF: 753 bp

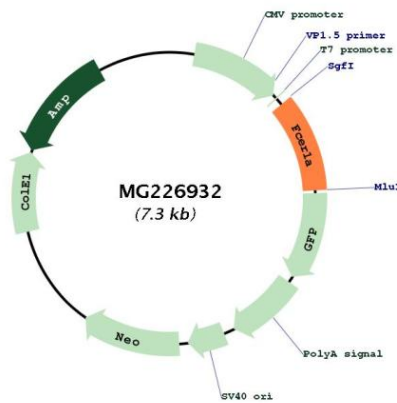
Locus ID: 14125

UniProt ID: [P20489](#)

Cytogenetics: 1 80.33 cM

Gene Summary: Binds to the Fc region of immunoglobulins epsilon. High affinity receptor. Responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also induces the secretion of important lymphokines.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226932