

## Product datasheet for **MC227071**

### Fcer2a (NM\_001253739) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fcer2a (NM\_001253739) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Fcer2a  
**Synonyms:** CD23; Fce2; Fcer2; Ly-42  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227071 representing NM\_001253739  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACACGCACCATACAGGATACTGGAACTCCTAGAAAGCGTTGCTGCTGTGCAAGACGTGGGACAC  
 AGCTCATGTTGGTGGGGCTGCTGAGCACAGCAATGTGGGCTGGCCTGCTGGCCCTGCTTCTTCTGTGGCA  
 CTGGGAAACGGAGAAGAATCTAAAACAGCTGGGAGACACTGCAATTCAGAATGTCTCTCATGTTACCAAG  
 GACTTACAAAAATTCAGAGTAATCAATTGGCCAGAAAGTCCCAGGTTGTTTCAGATGTCACAAAACCTTGC  
 AAGAACTCCAAGCTGAACAGAAGCAAATGAAAGCTCAGGACTCTCGGCTCTCCGAGAACCTGACCCGACT  
 CCAGGAGGATCTAAGGAACGCCAATCCGAGAACTCAAACTCTCCGAGAACCTGAACAGACTCCAAGAC  
 GATCTAGTCAACATCAAAATCCCTGGGCTTGAATGAGAAGCGCACAGCCTCCGATTCTCTAGAGAACTCC  
 AGGAAGAGGTGGCAAAGCTGTGGATAGAGATACTGATTTCAAAGGAACTGCATGCAACATATGTCCAA  
 GAACTGGCTCCATTTCCAACAGAAGTGTACTATTTTGGCAAGGGCTCCAAGCAGTGGATCCAGGCCAGG  
 TTCGCCCTGCAGTGACCTGCAAGGGCGACTAGTCAGCATCCACAGCCAAAAGGAACAGGACTTCTGTATGC  
 AACACATCAACAAGAAGGATTCCTGGATTGGCCTCCAGGATCTCAATATGGAGGGAGATTGTATGGTC  
 GGACGGGAGCCCTGTGGTTATAGCAACTGGAATCCAGGGAGCCCAATAACGGGGGCCAGGGTGAGGAC  
 TGTGTGATGATGCGGGATCCGGCCAGTGAACGACGCCTTCTGCCGAGCTACTTGATGCATGGGTGT  
 GTGAGCAGCTGGCAACATGTGAGATATCTGCCCTTAGCCTCTGTGACTCCAACAAGGCCACCCCAAA  
 AAGTGAACCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001253739



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|                               |  |
|-------------------------------|--|
| <b>Insert Size:</b>           | 993 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.   |
| <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>                | <u><a href="#">NM_001253739.1</a></u> , <u><a href="#">NP_001240668.1</a></u>  |
| <b>RefSeq Size:</b>           | 2111 bp  |
| <b>RefSeq ORF:</b>            | 993 bp   |
| <b>Locus ID:</b>              | 14128  |
| <b>UniProt ID:</b>            | <u><a href="#">P20693</a></u>  |
| <b>Cytogenetics:</b>          | 8 1.92 cM  |
| <b>Gene Summary:</b>          | <p>Low-affinity receptor for immunoglobulin E (IgE) and CR2/CD21. Has essential roles in the regulation of IgE production and in the differentiation of B-cells (it is a B-cell-specific antigen). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) has a different 5' end with an alternate start codon, compared to variant 1. The resulting protein (isoform C) has a shorter and distinct N-terminus when it is compared to isoform A. Although variants 2 and 3 encode a protein of the same length (330 aa), the sequence of the two proteins (isoform B and isoform C) are different.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |