

## Product datasheet for MR223746

### Fcer2a (NM\_013517) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fcer2a (NM_013517) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fcer2a
Synonyms:	CD23; Fce2; Fcer2; Ly-42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223746 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGAAAAAGAATACTCAGGATACTGGAACTCCTAGAAAGCGTTGCTGCTGTGCAAGACGTGGGA  
CACAGCTCATGTTGGTGGGGCTGCTGAGCACAGCAATGTGGGCTGGCCTGCTGGCCCTGTTCTTCTGTG  
GCACTGGGAAACGGAGAAGAATCTAAAACAGCTGGGAGACTGCAATTCAGAATGTCTCTCATGTTACC  
AAGGACTTACAAAAATTCAGAGTAATCAATTGGCCCAGAAGTCCAGGTTGTTCCAGATGTCACAAAAC  
TGCAAGAACTCCAAGCTGAACAGAAGCAAATGAAAGCTCAGGACTCTCGGCTCTCCAGAACCTGACCGG  
ACTCCAGGAGGATCTAAGGAACGCCAATCCCAGAACTCAAACTCTCCAGAACCTGAACAGACTCCAA  
GACGATCTAGTCAACATCAAATCCCTGGCTTGAATGAGAAGCGCACAGCCTCCGATTCTCTAGAGAAAC  
TCCAGGAAGAGGTGGCAAAGCTGTGGATAGAGATACTGATTTCAAAGGGAAGTGCATGCAACATATGTCC  
CAAGAACTGGCTCCATTTCCAACAGAAGTGCTACTATTTGGCAAGGGCTCCAAGCAGTGGATCCAGGCC  
AGGTTTCGCTGCAGTGACCTGCAAGGGCGACTAGTCAGCATCCACAGCCAAAAGGAACAGGACTTCTCTGA  
TGCAACACATCAACAAGAAGGATTCTGGATTGGCCTCCAGGATCTCAATATGGAGGGAGAGTTTGTATG  
GTCGGACGGGAGCCCTGTGGTTATAGCAACTGGAATCCAGGGGAGCCCAATAACGGGGGCCAGGGTGAG  
GACTGTGTGATGATGCGGGGATCCGGCCAGTGGAAACGACGCCCTTCTGCCGAGCTACTTGGATGCAATGGG  
TGTGTGAGCAGCTGGCAACATGTGAGATATCTGCCCTTAGCCTCTGTGACTCCAACAAGGCCACCC  
AAAAAGTGAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223746 protein sequence  
Red=Cloning site Green=Tags(s)

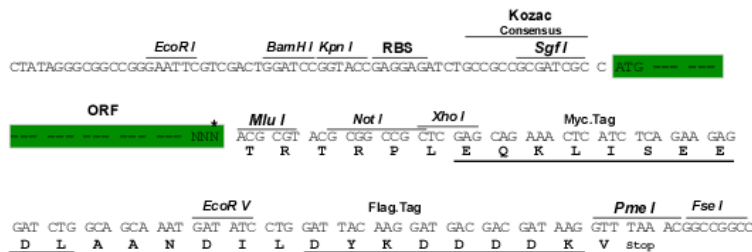
MEENEYSGYWEPPrKRCCARRGTQLMLVGLLSTAMWAGLLALLLWHWETEKNLKQLGDTAIQNVSHVT  
 KDLQKFQSNQLAQKSQVVQMSQNLQELQAEQKQMKQAQDSRLSQNL TGLQEDLRNAQSQNSKLSQNLNRLQ  
 DDLVNIKSLGLNEKRTASDSLEKLQEEVAKLWIEILISKGTACNICPKNWLHFQQKCYFFGKGSQWIIQA  
 RFACSDLQGR LVSIIHSQKEQDFLMQHINKKDSWIGLQDLNMEGEFVWSDGSPVGYSNWNPGEPNNGGQGE  
 DCVMMRGSQWDAFCRSYLDAAVCEQLATCEISAPLASVTPTRPTPKSEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_013517

**ORF Size:** 996 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\\_013517.4](#), [NP\\_038545.1](#)

**RefSeq Size:** 2241 bp

**RefSeq ORF:** 996 bp

**Locus ID:** 14128

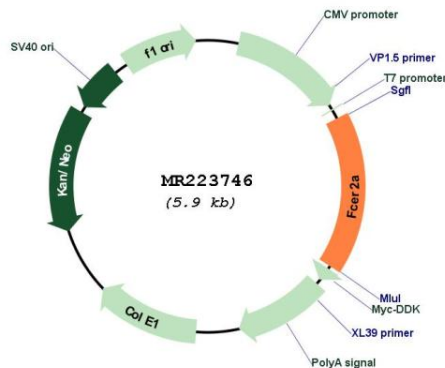
**UniProt ID:** [P20693](#)

**Cytogenetics:** 8 1.92 cM

**MW:** 37.6 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR223746