

Product datasheet for **MC228241**

C8a (NM_001290645) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8a (NM_001290645) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	C8a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228241 representing NM_001290645
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACCTGGGTA**ACTGCACAAGAGAAGTGAACCATACCGATACCGGAGCCTCTTGACGCCAAGCA**
 AGTTTGGAGGAACCATCTGCAGTGGTGATATCTGGGATGAGGCCAGCTGTGACAGCCCCACACCTTGCT
 AAGGCAAGCACAGTGTGGACAGGATTTCCAGTGTAGAGAGACAGGTCGCTGCCTGAAACGCCACCTGGTG
 TGTAACGGAGATAACGACTGCCTGGATGGCTCTGATGAGTCCGACTGTGAAGATGT**CAGGGTCACTGAGG**
 ATGATTGCCATCAGTATGAACCAATCCCAGGATCAGAAAGGGCAGCCTTGGGGTACAACATCCTGACTCA
 AGAGGAAGCTCAGAGTGT**TACGATGCTAAGTATTATGGGGCCAGTGTGAAACTGTGTACAATGGAGAC**
 TGGAGAAAGCTGCGGTACGACCCACCTGTGAGCGCCTCTACTATGGGGAGGATGAGAAACTTTTCGGA
 AGCCCTACA**ACTTCCTTAAGTACC**ACTTTGAAGCCCTGGCGGATACTTCAATCTCCTCAGAGTTTTATGA
 TGATGCGAATGATCTTTTTTTTACATAAAGAATGGCAAGTCCCCTCAGCTGGTGAACGGTTGGCGTA
 GCCCAGTAAAAAGTCTGTCTCAATAGAGGTGACTGGATCCGGGTCCAAGCATCTTCATTCTCTGAACA
 AGTTAAACAAGTATAATGAGAAGAGATATGGCTTCATGAGAGTGTCTACAAGATACAGACTGCACAGTT
 TAAGATGAGAAGGAACAATATTGTCTGGATGAAGGAATGCTGCAGTCATTAATGGAGCTCCAGAGCAG
 TTCAACTATGGCATGTACGCCAAGTTCAATGACTATGGCACCCACTACATCACCTCTGGAACCATGG
 GTGGCATTATGAATATGTTATGGTGCTTGACAAAGAGAAAAATGAAA**ACTGAAGTACTACTGTGGATGA**
 AGTCCAAAAATGCATTGGCGGTGGCATTGGCATAGGAATTAAGGATAGTACAATTGAAGGAGTAGGTATA
 TCAGGAGAGTTTTGTGAAA**ACTCTGGAGATGGT**GACCGTGACATAAGGAAGAAAAATCACAGGAGTGGAGG
 ACATCATTCTCGGGTGAAGGTGGAAGTTCTGTCTGGGGCAGTGTCTTGACACACAACAGCAGTCCCAT
 TACATATCAGTCCTGGGGAGATCGTTAAAGTATAACCCTGTTGTTATCGATTTTGAGATGCAGCCTATC
 TACCAGCTACTGCGGCACACAACTTGGGACCCCTGGAGACGAAACGTCAGAACCTGCGACGGGCTTTGG
 ACCAGTACCTGATGGAATTTAATGCCTGTCTGTTGGCCCTGCTTCAACAATGGGGAACCCATACTTGA
 CGGCACCAACTGCCGGTGT**CAGTGTAGTATGGGCCGCGAGGGCCTGGCCTGTGAACGCACGGT**GATAGAG
 GGGCTCAAAGACTTCAAAGCCGCTGGCCACTGGAGCTGCTGGAGTTCTGGT**CAGAGTGCAGAGGAGTT**
 CCCAGGAGAGGAGAGACAGTGAACAACCCACCACCAAGAATGGAGGTACCCCATGCCTAGGGAGGAA
 CCTGCAGACCCAGGCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001290645
- Insert Size:** 1632 bp
- OTI Disclaimer:** 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001290645.2](#), [NP_001277574.1](#)

RefSeq Size: 3542 bp

RefSeq ORF: 1632 bp

Locus ID: 230558

Cytogenetics: 4 C6

Gene Summary: This gene encodes the alpha subunit of complement component C8 that participates in the assembly of the complement membrane attack complex. The encoded preproprotein undergoes proteolytic processing to generate the alpha subunit, which associates with the beta and gamma subunits to form a trimeric complement component, C8. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. This gene is located adjacent to the gene encoding the beta subunit. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (2) lacks an alternate exon in the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct N-terminus, compared to isoform 1.