

Product datasheet for **MR209163**

C8a (NM_146148) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8a (NM_146148) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C8a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209163 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGTGGTTGCTTTCTTTGGCTTGTCTTTGGTGGCATGGCACCTGGGGTAAGTGCACAAGAGAAGG
 TGAACCAGCGGGTCACCCGAGCTGTGACCCCGCAAGCAGTGTCTGTGAGTTGAGTGACTGGTACAATG
 GACAGATTGTTTTCCATGTCAGGATAAAAAAGTACCGATACCGGAGCCTCTTGACAGCCAAGCAAGTTTGA
 GGAACCATCTGCAGTGGTGATATCTGGGATGAGGCCAGCTGTGACAGCCACACCTTGTCTAAGGCAAG
 CACAGTGTGGACAGGATTTCCAGTGTAGAGAGACAGGTCGCTGCCTGAAACGCCACCTGGTGTAAACGG
 AGATAACGACTGCCTGGATGGCTCTGATGAGTCCGACTGTGAAGATGTCAGGGTCACTGAGGATGATTGC
 CATCAGTATGAACCAATCCAGGATCAGAAAGGGCAGCCTTGGGGTACAACATCTGACTCAAGAGGAAG
 CTCAGAGTGTTCAGATGCTAAGTATTATGGGGCCAGTGTGAACTGTGTACAATGGAGACTGGAGAAA
 GCTGCGGTACGACCCACCTGTGAGCGCCTCTACTATGGGGAGGATGAGAAATACTTTCGAAGCCCTAC
 AACTTCCTTAAGTACCCTTTGAAGCCCTGGCGGATACTCAATCTCCTCAGAGTTTTATGATGATGCGA
 ATGATCTTTTTTTTACATAAAGAATGGCAAGTCCCACTCAGCTGGTGTAAACGTTGGCGTAGCCCCAGT
 AAAAAGTCCTGTCTCAATAGAGGTGACTGGATCCGGGTCCAAAGCATCTTCATTCTGAACAAGTTAAAC
 AAGTATAATGAGAAGAGATATGGCTTATGAGAGTGTCTACAAAGATACAGACTGCACAGTTAAGATGA
 GAAGGAACAATATTGTGCTGGATGAAGGAATGCTGCAGTCATTAAATGGAGCTCCCAGAGCAGTTCACCTA
 TGGCATGTACGCCAAGTTCATCAATGACTATGGCACCCACTACATCACCTCTGGAACCATGGGTGGCATT
 TATGAATATGTTATGGTCTTGACAAAGAGAAAATGAAACTGAAGTACTACTGTGGATGAAGTCCAAA
 AATGCATTGGCGGTGGCATTGGCATAGGAATTAAAGGATAGTACAATTGAAGGAGTAGGTATATCAGGAGA
 GTTTTGTGAAAACCTCTGGAGATGGTGACCGTGACATAAGGAAGAAAATCACAGGAGTGGAGGACATCATT
 TCTCGGGTGCAAGGTGGAAGTTCTGTCTGGGGCAGTGTCTTGACACACAACAGCAGTGCCATTACATATC
 AGTCTGGGGGAGATCGTTAAAGTATAACCCTGTTGTTATCGATTTTGGAGATGCAGCCTATCTACCAGCT
 ACTGCGGCACACAACTTGGGACCCCTGGAGACGAAACGTGAGAACCTGCGACGGGCTTTGGACCAGTAC
 CTGATGGAATTTAATGCCTGTCGTTGTGGGCCCTGCTTCAACAATGGGGAACCCATACTTGACGGCACCA
 ACTGCCGTGTCAGTGTAGTATGGGCCGGCAGGGCCTGGCCTGTGAACGCACGGTGTAGAGGGGCTCAA
 AGACTTCAAAGCCGCTGGCCACTGGAGCTGCTGGAGTTCTGGTCAAGTGCAGAGGAGGTTCCAGGAG
 AGGAGGAGACAGTGCAACAACCCACCACCAAGAATGGAGGTACCCCATGCTAGGGAGGAACCTGCAGA
 CCCAGGCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209163 protein sequence
 Red=Cloning site Green=Tags(s)

MFVVAFFGLSLVAWHPGVTAQEKVNQRVTRAVTPQAVSCQLSDWYKWTDFPCQDKKYRYSLLQPSKFG
 GTICSGDIWDEASCDSPTPCLRQAQCGQDFQCRETGRCLKRHLVCNGDNDCLDGSDESDEDVVRTEDDC
 HQYEPIPGSERAALGYNILTQEEAQSVYDAKYGGQCETVYNGDWRKLRYPDTCERLYYGEDEKYFRKPY
 NFLKYHFEALADTSISSEFYDDANDLFFHIKNGKSHSAGVTGVAVPKSPVSIIEVTGSGSKASSFLNKLN
 KYNEKRYGFMRVSTKIQTAFKMRNNIIVLDEGMLQSLMELPEQFNMGYAKFINDYGTHYITSGTMGGI
 YEYVMVLDKEKMKTEGTTVDEVQKCIIGGIGIGIKDSTIEGVGISGEFCENSGDGRDIRKKITGVEDI
 SRVQGGSSVWGSVLTHNSAITYQSWGRSLKYNPVVIDFEMQPIYQLLRHTNLGPLETKRQNLRRALDQY
 LMEFNACRCGPCFNNGEPILDGTNCRQCQSMGRQGLACERTVIEGLKDFKAAGHWSWSSWSECRGGSQE
 RRRQCNNPPPKNGGTPCLGRNLQTQAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_146148

ORF Size: 1764 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_146148.2](#), [NP_666260.1](#)

RefSeq Size: 3636 bp

RefSeq ORF: 1764 bp

Locus ID: 230558

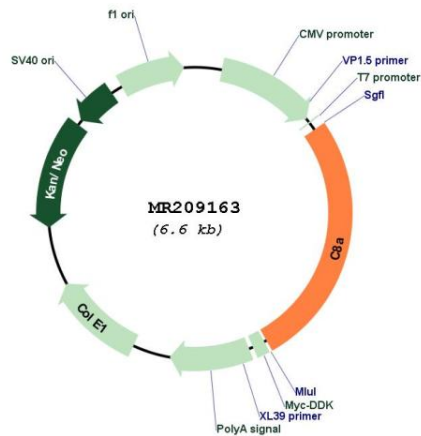
UniProt ID: [Q8K182](#)

Cytogenetics: 4 C6

MW: 66.1 kDa

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]

Product images:



Circular map for MR209163