

Product datasheet for **MR230452**

C8a (NM_001290645) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR230452 representing NM_001290645
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACCTGGGTAAGTGCACAAGAGAAGTGAACCATACCGATACCGGAGCCTCTTGCAGCCAAGCA
 AGTTTGGAGGAACCATCTGCAGTGGTGATATCTGGGATGAGGCCAGCTGTGACAGCCCCACACCTTGCT
 AAGGCAAGCACAGTGTGGACAGGATTTCCAGTGTAGAGAGACAGGTCGCTGCCTGAAACGCCACCTGGTG
 TGTAACGGAGATAACGACTGCCTGGATGGCTCTGATGAGTCCGACTGTGAAGATGTCAGGGTCACTGAGG
 ATGATTGCCATCAGTATGAACCAATCCCAGGATCAGAAAGGGCAGCCTTGGGGTACAACATCCTGACTCA
 AGAGGAAGCTCAGAGTGTACGATGCTAAGTATTATGGGGCCAGTGTGAACTGTGTACAATGGAGAC
 TGGAGAAAGCTGCGGTACGACCCACCTGTGAGCGCCTCTACTATGGGGAGGATGAGAAACTTTTCGGA
 AGCCCTACAACCTCCTTAAGTACCACTTTGAAGCCCTGGCGGATACTTCAATCTCCTCAGAGTTTTATGA
 TGATGCGAATGATCTTTTTTTTACATAAAGAATGGCAAGTCCCCTCAGCTGGTGAACGGTTGGCGTA
 GCCCAGTAAAAAGTCTGTCTCAATAGAGGTGACTGGATCCGGGTCAAAGCATCTTCATTCTCTGAACA
 AGTTAAACAAGTATAATGAGAAGAGATATGGCTTCATGAGAGTGTCTACAAGATACAGACTGCACAGTT
 TAAGATGAGAAGGAACAATATTGTGCTGGATGAAGGAATGCTGCAGTCATTAATGGAGCTCCAGAGCAG
 TTCAACTATGGCATGTACGCCAAGTTTCAATGACTATGGCACCCACTACATCACTCTGGAACCATGG
 GTGGCATTATGAATATGTTATGGTGCTTGACAAAAGAGAAAAATGAAAAGTGAAGTACTACTGTGGATGA
 AGTCCAAAAATGCATTGGCGGTGGCATTGGCATAGGAATTAAGGATAGTACAATTGAAGGAGTAGGTATA
 TCAGGAGAGTTTTGTGAAAAGTCTGGAGATGGTACCCTGACATAAGGAAGAAAAATCACAGGAGTGGAGG
 ACATATTTCTCGGGTGAAGGTGGAAGTCTGTCTGGGCAAGTCTTGGACACACACAGCAGTGGCCT
 TACATATCAGTCCTGGGGAGATCGTTAAAGTATAACCCTGTTGTTATCGATTTTGGAGATGCAGCCTATC
 TACCAGCTACTGCGGCACACAACTTGGGACCCCTGGAGACGAAACGTCAGAACCCTGCGACGGGCTTTGG
 ACCAGTACTGATGGAATTTAATGCCTGTCTGTGGCCCTGCTTCAACAATGGGGAACCCATACTTGA
 CGGCACCAACTGCCGGTGTGAGTGTAGTATGGCCGGCAGGGCCTGGCCTGTGAACGCACGGTGTAGAG
 GGGCTCAAAGACTTCAAAGCCGCTGGCCACTGGAGCTGCTGGAGTTCTGGTGTGAGTGCAGAGGAGTT
 CCCAGGAGAGGAGGAGACAGTGAACAACCCACCACCAAGAATGGAGGTACCCCATGCCTAGGGAGGAA
 CCTGCAGACCCAGGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230452 representing NM_001290645
 Red=Cloning site Green=Tags(s)

MAPWGNCTREGEPYRYSLLQPSKFGGTICSGDIWDEASCDSPCLRQAQCGQDFQCRETGRCLKRHLV
 CNGDNDCLDGSDESDCEDVVTEDDCHQYEPVIGSERAALGYNILTQEEAQSVDYAKYYGGQCETVYNGD
 WRKLYDPTCERLYYGEDEKYFRKPYNFLKYHFEALADTSISSEFYDDANDLFFHIKNGKSHSAGVTGV
 APVKSPVSIIEVTGSGSKASSFLNKLNYNEKRYGFMRVSTKIQTAFKMRNNIIVLDEGMLQSLMELPEQ
 FNYGMYAKFINDYGTHYITSGTMGGIYEVVMLDKEKMKTEGTTVDEVQKICGGIGIGIKDSTIEGVGI
 SGFEFCENSGDGRDIRKKITGVEDIISRVQGGSSVWGSVLTHNSSAITYSWGRSLKYNPVVIDFEMQPI
 YQLLRHTNLGPLETKRQNLRRALDQYLMFNACRCGPCFNNGEPILDGTNCRQCQSMGRQLACERTVIE
 GLKDFKAAGHWSWSSWSECRGGSQERRRQCNNPPKNGGTPCLGRNLQTQAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

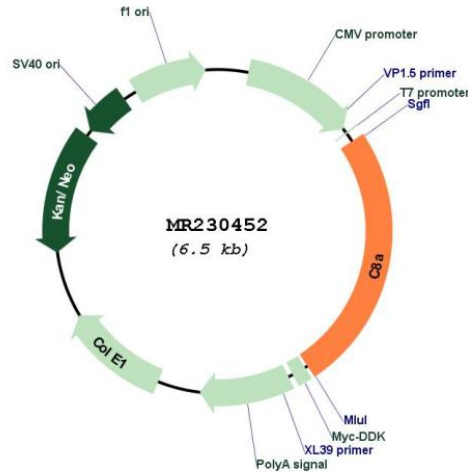
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001290645

ORF Size: 1629 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_001290645.2](#), [NP_001277574.1](#)

RefSeq Size: 3532 bp

RefSeq ORF: 1632 bp

Locus ID: 230558

Cytogenetics: 4 C6

MW: 61.5 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]