

Product datasheet for **MG209163**

C8a (NM_146148) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | C8a (NM_146148) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | C8a |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG209163 representing NM_146148
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGTGGTTGCTTTCTTTGGCTTGTCTTTGGTGGCATGGCACCTGGGGTAAGTGCACAAGAGAAGG
 TGAACCAGCGGGTCACCCGAGCTGTGACCCCGCAAGCAGTGTCTGTGAGTTGAGTGACTGGTACAATG
 GACAGATTGTTTTCCATGTCAGGATAAAAAAGTACCGATACCGGAGCCTCTTGACAGCCAAGCAAGTTTGA
 GGAACCATCTGCAGTGGTGATATCTGGGATGAGGCCAGCTGTGACAGCCACACCTTGTCTAAGGCAAG
 CACAGTGTGGACAGGATTTCCAGTGTAGAGAGACAGGTCGCTGCCTGAAACGCCACCTGGTGTAAACGG
 AGATAACGACTGCCTGGATGGCTCTGATGAGTCCGACTGTGAAGATGTCAGGGTCACTGAGGATGATTGC
 CATCAGTATGAACCAATCCAGGATCAGAAAGGGCAGCCTTGGGGTACAACATCTGACTCAAGAGGAAG
 CTCAGAGTGTTCAGATGCTAAGTATTATGGGGCCAGTGTGAACTGTGTACAATGGAGACTGGAGAAA
 GCTGCGGTACGACCCACCTGTGAGCGCCTCTACTATGGGGAGGATGAGAAATACTTTCGGAAGCCCTAC
 AACTTCCTTAAGTACCCTTTGAAGCCCTGGCGGATACTCAATCTCCTCAGAGTTTTATGATGATGCGA
 ATGATCTTTTTTTTACATAAAGAATGGCAAGTCCCACTCAGCTGGTGTAAACGTTGGCGTAGCCCCAGT
 AAAAAAGTCTGTCTCAATAGAGGTGACTGGATCCGGGTCCAAAGCATCTTCATTCTGAACAAGTTAAAC
 AAGTATAATGAGAAGAGATATGGCTTATGAGAGTGTCTACAAAGATACAGACTGCACAGTTAAGATGA
 GAAGGAACAATATTGTGCTGGATGAAGGAATGCTGCAGTCATTAAATGGAGCTCCCAGAGCAGTTCAACTA
 TGGCATGTACGCCAAGTTCATCAATGACTATGGCACCCACTACATCACCTCTGGAACCATGGGTGGCATT
 TATGAATATGTTATGGTCTTGACAAAGAGAAAATGAAACTGAAGTACTACTGTGGATGAAGTCCAAA
 AATGCATTGGCGGTGGCATTGGCATAGGAATTAAGGATAGTACAATTGAAGGAGTAGGTATATCAGGAGA
 GTTTTGTGAAAACCTCTGGAGATGGTGACCGTGACATAAGGAAGAAAATCACAGGAGTGGAGGACATCATT
 TCTCGGGTGAAGGTGGAAGTTCTGTCTGGGGCAGTGTCTTGACACACAACAGCAGTGCCATTACATATC
 AGTCTGGGGGAGATCGTTAAAGTATAACCCTGTTGTTATCGATTTTGGAGATGCAGCCTATCTACCAGCT
 ACTGCGGCACACAACTTGGGACCCCTGGAGACGAAACGTGAGAACCTGCGACGGGCTTTGGACCAGTAC
 CTGATGGAATTTAATGCCTGTGTTGTGGGCCCTGCTTCAACAATGGGGAACCCATACTTGACGGCACCA
 ACTGCCGTGTCAGTGTAGTATGGGCCGGCAGGGCCTGGCCTGTGAACGCACGGTATAGAGGGGCTCAA
 AGACTTCAAAGCCGCTGGCCACTGGAGTGTCTGGAGTTCTGGTCAAGTGCAGAGGAGGTTCCCAGGAG
 AGGAGGAGACAGTGCAACAACCCACCACCAAGAATGGAGGTACCCCATGCCTAGGGAGGAACCTGCAGA
 CCCAGGCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209163 representing NM_146148
 Red=Cloning site Green=Tags(s)

MFVVAFFGLSLVAWHPGVTAQEKNQVRVTRAVTPQAVSCQLSDWYKWTDGFCQDKKYRYSLLQPSKFG
 GTICSGDIWDEASCDSPCLRQAQCQDFQCRETGRCLKRHLVCNGDNDCLDGSDESDCEDVVRTEDDC
 HQYEPIPGSERAALGYNILTQEEAQSVYDAKYGGQCETVYNGDWRKLRYPDTCERLYYGEDEKYFRKPY
 NFLKYHFEALADTSSISSEFYDDANLFFHIKNGKSHSAGVTGVAVPKSPVSIIEVTGSGSKASSFLNKLN
 KYNEKRYGFMRVSTKIQTAAQFKMRRNNIIVLDEGMLQSLMELPEQFNQMYAKFINDYGTHYITSGTMGGI
 YEYVMVLDEKMKTEGTTVDEVQKICGGIGIGIKDSTIEGVGISGEFCENSGDGRDIRKKITGVEDII
 SRVQGGSSVWGSVLTHNSSAITYQSWGRSLKYNPVVIDFEMQPIYQLLRHTNLGPLETKRQNLRRALDQY
 LMEFNACRCGPFNNGEPILDGTNCRQCQSMGRQLACERTVIEGLKDFKAAGHWSWSSWSECRGGSQE
 RRRQCNNPPPKNGGTPCLGRNLQTQAC

TRTRPLE - GFP Tag - V

Restriction Sites:

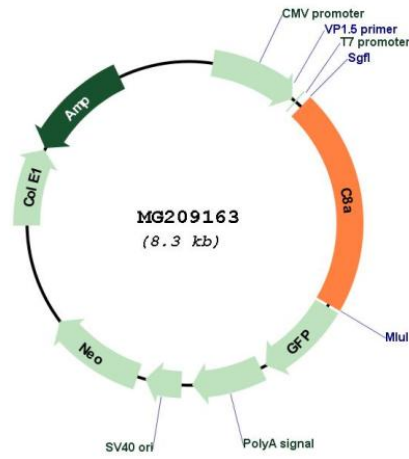
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_146148

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|-------------------------------|--|
| ORF Size: | 1761 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: | <ol style="list-style-type: none">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 |
| 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] |