

## Product datasheet for **SC119839**

### Complement C8A (C8A) (NM\_000562) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C8A (C8A) (NM_000562) Human Untagged Clone
Tag:	Tag Free
Symbol:	Complement C8A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF within SC119839 sequence for NM\_000562 edited (data generated by NextGen Sequencing)

```

ATGTTTGTCTGTTGTTTTCTTCATCTTGTCTTTGATGACTTGTGACGCTGGGGTAACTGCA
CAGGAGAAGGTGAACCAGAGAGTAAGACGGGCAGCTACACCCGCAGCAGTTACCTGCCAG
CTGAGCAACTGGTCAGAGTGGACAGATTGCTTTCCGTGCCAGGACAAAAAGTACCGACAC
CGGAGCCTCTTGCAGCCAAACAAGTTTGGGGGAACCATCTGCAGTGGTGACATCTGGGAT
CAAGCCAGCTGCTCCAGTTCTACAACCTGTGTAAGGCAAGCACAGTGTGGACAGGATTTT
CAGTGTAAGGAGACAGGTGCTGCTGAAACGCCACCTTGTGTGAATGGAGACCAGGAC
TGCCCTTGATGGCTCTGATGAGGACGACTGTGAAGATGTCAGGGCCATTGACGAAGACTGC
AGCCAGTATGAACCAATTCAGGATCACAGAAGGCAGCCTTGGGGTACAATATCCTGACC
CAGGAAGATGCTCAGAGTGTGTACGATGCCAGTTATTATGGGGGCCAGTGTGAGACGGTA
TACAATGGGGAATGGAGGGAGCTTCGATATGACTCCACCTGTGAACGCTCTACTATGGA
GATGATGAGAAATACTTTCGAAACCCTACAACCTTCTGAAGTACCATTGAAGCCCTG
GCAGATACTGGAATCTCCTCAGAGTTTTATGATAATGCAATGACCTTCTTCCAAAGTT
AAAAAAGACAAGTCTGACTCATTGGAGTGACCATCGGCATAGGCCAGCCGCGCAGCCCT
TTATTGGTGGGTGTAGGTGATCCCACTACAAGACACTTCATTCTTGAACGAATTAAC
AAGTATAATGAGAAGAAATTCATTTTCAAGAATCTTCAAAAGGTGCAGACTGCACAT
TTTAAGATGAGGAAGGATGACATTATGCTGGATGAAGGAATGCTGCAGTCATTAATGGAG
CTTCCAGATCAGTACAATTATGGCATGTATGCCAAGTTCATCAATGACTATGGCACCCAT
TACATCACATCTGGATCCATGGGTGGCATTATGAATATATCCTGGTGATTGACAAAGCA
AAAATGGAATCCCTTGGTATTACCAGCAGAGATATCACGACATGTTTTGGAGGCTCCTTG
GGCATTCAATATGAAGACAAAATAAATGTTGGTGGAGGTTTATCAGGAGACCATTGTAAA
AAATTTGGAGGTGGCAAAACTGAAAGGGCCAGGAAGGCCATGGCTGTGGAAGACATTATT
TCTCGGGTGCAGAGTGGCAGTTCTGGCTGGAGCGGTGGCTTGGCACAGAACAGGAGCACC
ATTACATACCGTTCTGGGGAGGTCATTAAAGTATAATCCTGTTGTTATCGATTTTGAG
ATGCAGCCTATCCACGAGGTGCTGCGGCACACAAGCCTGGGGCCTCTGGAGGCCAAGCGC
CAGAACCTGCGCCGCGCCTTGGACCAGTATCTGATGGAATTCAATGCCTGCCGATGTGGG
CCTTGCTTCAACAATGGGGTGGCCATCCTCGAGGGCACCAGCTGCAGGTGCCAGTGCCGC
CTGGGTAGCTTGGGTGCTGCCTGTGAGCAAAACACAGACAGAAGGAGCCAAAGCAGATGGG
AGCTGGAGTTGCTGGAGCTCCTGGTCTGTATGCAGAGCAGGCATCCAGGAAAGGAGAAGA
GAGTGTGACAATCCAGCACCTCAGAATGGAGGGGCTCGTGTCCAGGGCGAAAGTACAG
ACGCAGGCTTGCTGA

```

Clone variation with respect to NM\_000562.2

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000562 unedited

```

TCGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGTACAGGTCC
CAGCCTGTAGACATCTTTTACTCCAATTTCTGAATAGATAGCTTTATTCCTTCAAGGTA
ATATAGTGCAGGTTGCTTCTGGCTGAGATGTTTGCTGTTGTTTTCTTCATCTTGTCTTTGA
TGACTTGTGAGCCTGGGGTAACTGCACAGGAGAAGGTGAACCAGAGAGTAAGACGGGCAG
CTACACCCGCAGCAGTTACCTGCCAGCTGAGCAACTGGTCAGAGTGGACAGATTGCTTTT
CGTGCCAGGACAAAAAGTACCGACACCGGAGCCTCTTGCAGCCAAACAAGTTTGGGGGAA
CCATCTGCAGTGGTGACATCTGGGATCAAGCCAGCTGCTCCAGTTCTACAACCTTGTGTA
GGCAAGCACAGTGTGGACAGGATTTCCAGTGTAAAGGAGACAGGTGCTGCCTGAAACGCC
ACCTTGTGTGTAATGGAGACCAGGACTGCCTTGTGGCTCTGTAGGACGACTGTGAAG
ATGTCAGGGCCATTGACGAAGACTGCAGCCAGTATGAACCAATTCAGGATCACAGAAGG
CAGCCTTGGGGTACAATATCCTGACCCAGGAAGTGTCTCAGAGTGTGTACGATGCCAGTT
ATTATGGGGGCCAGTGTGAGACGGTATACAATGGGGAATGGAGGGAGCTTCGATATGACT
CCACCTGTGAACGTCTCTACTATGGAGATGATGAGAAATACTTTCNGAAACCCCTACACT
NTCTGAAGTACCANCTTTGAAGCCCTGNCAGATACTGGGATCTCCTCAGAGTTTTATGAN
TATGCAAATGACCTTCTTTTCCAAGNNTAAAAAGACAAGTCTGACTCATTGAGTACGAC
ATNCGNCATAGCCAGCCGAGCCCTTTTATGGTGGNTTGTAGTGTATCCACTC

```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000562 unedited ATCTTGNACCGCGCCGAATCTANGATNCGTTTTTTTTTTTTTTTTTTTCATCCTACTTT GTTTTATTGGGCGTTGATTGTTTCAGGTGTCTGCTTGTGTTTGTCTCTAACATCCTGTAAG TTCTCCCTGGTCATGGATTGAGTTTTCTCAGTTTTCTATTTTACTTTATTTTTTGTATGA TCCAAAGTGCTGTAAGTAGGACAGAGCTTCTAGTTAACAGTCAACATCCAGTTGCTGAAT AAAATGATTGAGTTTTGTAATAATAAGTAAGTTGGCTGTAGACAGCAAAACCTAGTCTT AGGCCTGGAAGCTGGCAAAACAAAGAAAAAGTGTGCTGATTTGCATCTTCTCTTAGTTG AAAGAAGTCTTTATCCAATAGTCAGTGCAGGGTGCACATCCACAGCATCTGGTCCAGCC TGTGTCCAGAGGCCCTCAGCAAGCCTGCGTCTGTACTTTCCGCCCTGGACACGAGGCCCC TCCATTCTGAGGTGCTGGATTGTCACACTCTTCTCCTTTCTGGATGCCTGCTCTGCA TACAGACCAGGAGCTCCAGCAACTCCAGCTCCCATCTGCTTTGGCTCCTTCTGTCTGTGT TTGCTCACAGGCAGCACCAAGCTACCCAGGCGGCACTGGCACCTGCAGCTGGTGCCTC GAGGATGGGCACCCATTGTTGAAGCAAGGCCACATCGGCAGGCATTGAATCCATCAG ATACTGGTCCAGGCGGCGCAGGTTCTGGCGCTTGGCCTCCANAGGCCCCAGGCTTGTG TGCCCGCACACCTCGTGGATAGGCTGCATCTCAAATCGATAACACCAGGATTATACTTT AATGACCTNCCCAGNAACNGTATGTAATGGNTGCTCCTGNNTCTGTGCCAAGCCACCGT TCCAGCCAGAAGTGNACCTNGCACCCGAGAAANTATGTCTTACANCATGGCCTTNCTG CCNTNTNAGTTTTGCCACTCCAANTTTTACN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000562
<b>Insert Size:</b>	2300 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000562.1</a></u> , <u><a href="#">NP_000553.1</a></u>
<b>RefSeq Size:</b>	2397 bp
<b>RefSeq ORF:</b>	1755 bp
<b>Locus ID:</b>	731
<b>UniProt ID:</b>	<u><a href="#">P07357</a></u>
<b>Cytogenetics:</b>	1p32.2
<b>Domains:</b>	tsp_1, MACPF, ldl_recept_a

<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
<b>Gene Summary:</b>	C8 is a component of the complement system and contains three polypeptides, alpha, beta and gamma. This gene encodes the alpha subunit of C8. C8 participates in the formation of the membrane attack complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause complement C8 alpha-gamma deficiency. [provided by RefSeq, Nov 2008]