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Product datasheet for SC300107

C8 (C8G) (NM_000606) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C8 (C8G) (NM_000606) Human Untagged Clone
Tag:	Tag Free
Symbol:	C8
Synonyms:	C8C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>SC300107 representing NM_000606.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCCCCCTGGGACTGCGACCCTCTTGACTCTGCTCCTGGCAGCTGGCTCGCTGGGCCAGAAGCCT
CAGAGGCCACGCCGGCCCGCATCCCCCATCAGCACCATCCAGCCCAAGGCCAATTTTGATGCTCAGCAG
TTTGCAGGGACCTGGCTCCTTGTGGCTGTGGGCTCCGCTTGCCGTTTCCTGCAGGAGCAGGGCCACCGG
GCCGAGGCCACCACACTGCATGTGGCTCCCCAGGGCACAGCCATGGCTGTCAGTACCTTCCGAAAGCTG
GATGGGATCTGCTGGCAGGTGCGCCAGCTCTATGGAGACACAGGGGTCCTCGGCCGCTTCCTGCTTCAA
GCCCGAGACGCCCGAGGGGCTGTGCACGTGGTTGTCGCTGAGACCGACTACCAGAGTTTCGCTGTCCTG
TACCTGGAGCGGGCGGGGCAGCTGTCAGTGAAGCTCTACGCCCGCTCGCTCCCTGTGAGCGACTCGGTC
CTGAGTGGGTTTGAGCAGCGGGTCCAGGAGGCCCACCTGACTGAGGACCAGATCTTCTACTTCCCCAAG
TACGGCTTCTGCGAGGCTGCAGACCAGTTCCACGTCCTGGACGAAGTGAGGAGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_000606
Insert Size:	609 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).

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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000606.2
RefSeq Size:	888 bp
RefSeq ORF:	609 bp
Locus ID:	733
UniProt ID:	P07360
Cytogenetics:	9q34.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
MW:	22.3 kDa
Gene Summary:	The protein encoded by this gene belongs to the lipocalin family. It is one of the three subunits that constitutes complement component 8 (C8), which is composed of a disulfide-linked C8 alpha-gamma heterodimer and a non-covalently associated C8 beta chain. C8 participates in the formation of the membrane attack complex (MAC) on bacterial cell membranes. While subunits alpha and beta play a role in complement-mediated bacterial killing, the gamma subunit is not required for the bactericidal activity. [provided by RefSeq, Jul 2011]

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