

Product datasheet for **RG222236**

C8 (C8G) (NM_000606) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C8 (C8G) (NM_000606) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: C8G
Synonyms: C8C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222236 representing NM_000606
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCCCCTGGGACTGCGACCCTCTTGACTCTGCTCCTGGCAGCTGGCTCGTGGGCCAGAAGCCTC
 AGAGGCCACGCCGCCGCATCCCCATCAGCACCATCCAGCCCAAGGCCAATTTTGATGCTCAGCAGTT
 TGCAGGGACCTGGCTCCTGTGGCTGTGGGCTCCGCTTCCGTTTCTGCAGGAGCAGGGCCACCGGGCC
 GAGGCCACCACACTGCATGTGGCTCCCCAGGGCACAGCCATGGCTGTCACTACCTCCGAAAGCTGGATG
 GGATCTGTGGCAGGTGCGCCAGCTCTATGGAGACACAGGGGTCTCGGCCGCTTCTGCTCAAGCCCG
 AGGCGCCCGAGGGGCTGTGCACGTGGTTGTCGCTGAGACCGACTACCAGAGTTTCGCTGTCTGTACCTG
 GAGCGGGCGGGGAGCTGTCAAGTGAAGCTCTACGCCCGCTCGCTCCCTGTGAGCGACTCGGTCTGAGTG
 GGTTTGAGCAGCGGGTCCAGGAGGCCACCTGACTGAGGACCAGATCTTCTACTTCCCAAGTACGGCTT
 CTGCGAGGCTGCAGACCAGTCCACGTCTGGACGAAGTGAGGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222236 representing NM_000606
 Red=Cloning site Green=Tags(s)

MLPPGTATLLTLLLAAGSLGQKPQRPRRPASPISTIQPKANFDAQQFAGTWLLVAVGSACRFLQEQQHRA
 EATTLHVAPQGTAMAVSTFRKLDGICWQVRQLYGDGVLGRFLLQARGARGAVHVVAETDYQSFVLYL
 ERAGQLSVKLYARSLPVSDSVLSGFQVRVQEAHLTEDQIFYPKYGFCEAADQFHVLDEVRR

TRTRPLE - GFP Tag - V

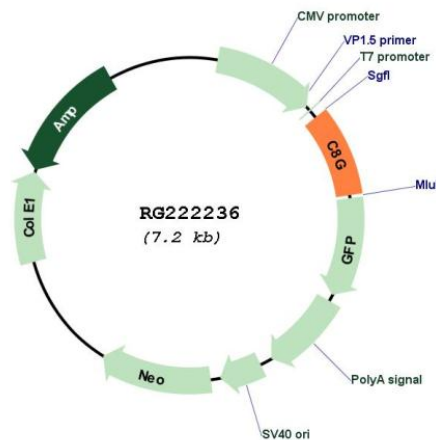
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_000606

ORF Size: 606 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_000606.1](#), [NP_000597.1](#)

RefSeq Size: 857 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

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]