

Product datasheet for RG215339

OriGene Technologies, Inc.

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Complement C4A (C4A) (NM_007293) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Complement C4A (C4A) (NM_007293) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Complement C4A

Synonyms: C4; C4A2; C4A3; C4A4; C4A6; C4AD; C4S; CO4; CPAMD2; RG

Mammalian Cell

Selection:

Neomycin

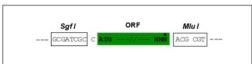
Vector: pCMV6-AC-GFP (PS100010)

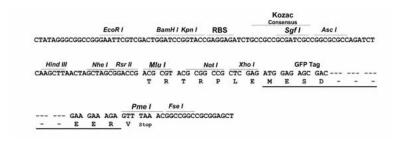
E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:







ACCN: NM_007293

ORF Size: 5232 bp

Complement C4A (C4A) (NM_007293) Human Tagged ORF Clone - RG215339

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: <u>NM 007293.3</u>

RefSeq Size: 5426 bp RefSeq ORF: 5235 bp

Locus ID: 720

UniProt ID: POCOL4

Cytogenetics: 6p21.33

Domains: ANATO, NTR, A2M, A2M_N

Protein Pathways: Complement and coagulation cascades, Systemic lupus erythematosus

Gene Summary: This gene encodes the acidic form of complement factor 4, part of the classical activation

pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement

components. The alpha chain is cleaved to release C4 anaphylatoxin, an antimicrobial peptide and a mediator of local inflammation. Deficiency of this protein is associated with systemic

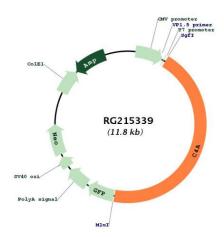
lupus erythematosus and type I diabetes mellitus. This gene localizes to the major

histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. Two transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Nov 2014]



Product images:



Circular map for RG215339