

## Product datasheet for RC215069

### Complement C3 (C3) (NM\_000064) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C3 (C3) (NM_000064) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Complement C3
Synonyms:	AHUS5; ARMD9; ASP; C3a; C3b; CPAMD1; HEL-S-62p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215069 representing NM_000064 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>RC215069 representing NM\_000064  
Red=Cloning site Green=Tags(s)

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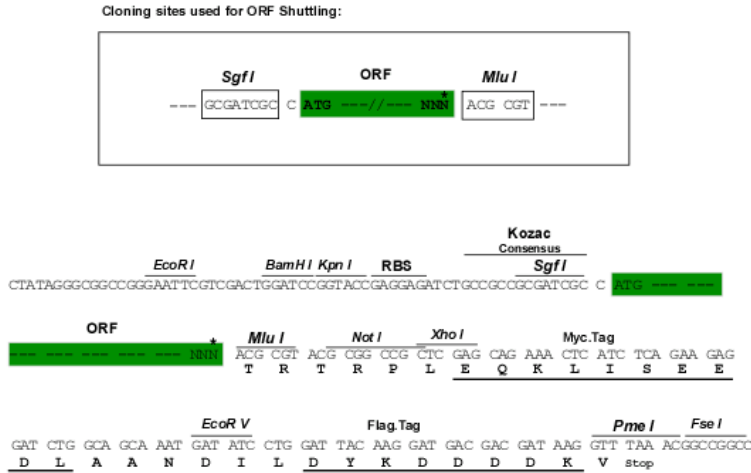
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**Restriction Sites:**

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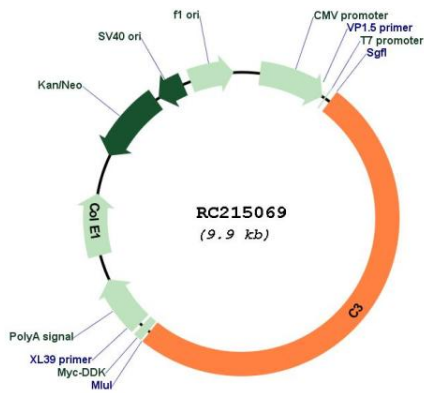
**Cloning Scheme:**



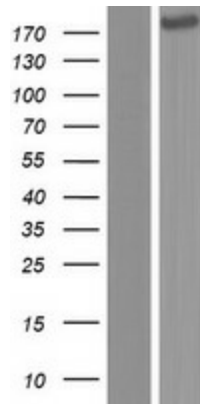
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_000064
<b>ORF Size:</b>	4989 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_000064.1</a> , <a href="#">NP_000055.1</a>
<b>RefSeq Size:</b>	5067 bp
<b>RefSeq ORF:</b>	4992 bp
<b>Locus ID:</b>	718
<b>UniProt ID:</b>	<a href="#">P01024</a>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	ANATO, NTR, A2M, A2M_N
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Complement and coagulation cascades, Systemic lupus erythematosus
<b>MW:</b>	187 kDa
<b>Gene Summary:</b>	Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients. [provided by RefSeq, Nov 2015]

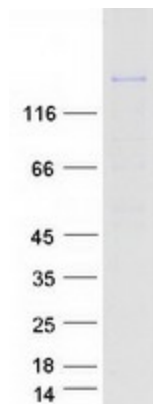
Product images:



Circular map for RC215069



Western blot validation of overexpression lysate (Cat# [LY424934]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215069 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C3 protein (Cat# [TP315069]). The protein was produced from HEK293T cells transfected with C3 cDNA clone (Cat# RC215069) using MegaTran 2.0 (Cat# [TT210002]).