

## Product datasheet for **RC209562**

### Complement C7 (C7) (NM\_000587) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C7 (C7) (NM_000587) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Complement C7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209562 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGGTGATAAGCTTATTCATTTTGGTGGGATTTATAGGAGAGTTCCAAAGTTTTCAAGTGCCTCCT  
 CTCCAGTCAACTGCCAGTGGGACTTCTATGCCCTTGGTCAGAATGCAATGGCTGTACCAAGACTCAGAC  
 TCGCAGGCGGTCAAGTGTGTATGGGAGTATGGAGGCCAGCCTTGTGTTGAAATGCTTTTGAACA  
 CAGTCTGTGAACCTACAAGAGGATGTCCAACAGAGGAGGGATGTGGAGAGCGTTTCAGGTGCTTTTCAG  
 GTCAGTGCATCAGCAAATCATTGGTTTGAATGGGGATTCTGACTGTGATGAAGACAGTCTGATGAAGA  
 CAGATGTGAGGACTCAGAAAGGAGACCTTCTGTGATATCGATAAACCTCCTCTAACATAGAACTTACT  
 GGAATGGTTACAATGAACTCACTGGCCAGTTTAGGAACAGAGTCATCAATACAAAAGTTTTGGTGGTC  
 AATGTAGAAAGGTGTTTAGTGGGATGGAAAAGATTTCTACAGGCTGAGTGGAAATGCTCCTGCTATAC  
 ATTCCAGGTGAAAATAAATAATGATTTTAAATTGAATTTTACAATAGTACTTGGTCTTATGTAACAT  
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 GTTATACTTACATACCAATGAAATCCATAAAGGAAAGAGTTACCAACTGCTGGTGTGAGAACACTGT  
 TGAAGTGGCTCAGTTCATTAATAACAATCCAGAATTTTTACAACCTGCTGAGCCATTCTGGAAGGAGCTT  
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 TGCAATCTGGGTCGTTAGGAGGAGAATACAGAGTTCTATTTTATGTGGACTCAGAAAAATTAACAAAA  
 TGATTTTAAATTCAGTCGAAGAAAAGAAATGTAATCCTCAGGTTGGCATTGTCGTTAAATTTCAAGT  
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 AACCGTTCATCAGAGGGGGAGGTCAGGCTTCATATCTGGCCTTAGTTACCTAGAGCTGGACAACCTGTC  
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 CTGACACCTTTATATGAGCTGGTAAAGGAAGTACCTTGTGCCTCTGTGAAAAACTATACCTGAAATGGG  
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 TGTGAGGGGACCCATTGTCTGTGCCATTGCAACCGTACACATTTGGTGCAGGCTGTGAGCAAGGAGTC  
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 ATGAAGGTACAATGTTTCTGTGGGAAAAATGTAGTGTACACTTGAATGAAGGATACTCTTATTGG  
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 TAAGTGGAGTCTGAGATGAAGAATGCCGCTGTGTACAAAAAGAAAAATCCGTTAACACAGGCAGTGCCT  
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 CATCGGAGTGCAGGAAGAAGGTTTAGCATTTGTGTGGAAGTGAACGGCAAGGAGCAGACGATGTCTGA  
 GTGTGAGGCGGGCCTCTGAGATGCAGAGGGCAGAGCATCTCTGTACCAGCATAAGGCCTTGTGTGCG  
 GAAACCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209562 protein sequence  
Red=Cloning site Green=Tags(s)

MKVISLFIILVGFIGEFQSFSSASSPVNCQWDFYAPWSECNGCTKTQTRRRSVAVYGQYGGQPCVGNAFET  
QSCPTRGCPTEEGCGERFRFCFSGQCISKSLVCNGSDCDEDSADEDRCEDSERRPSCDIDKPPPNIELT  
GNGYNELTGQFRNRVINTKSFGGQCRKVFSGDGKDFYRLSGNVLSYTFQVKINNDFNIEFYNSTWSYVKH  
TSTEHTSSSRKRSFFRSSSSSSRSYTSHTNEIHKGKSYQLLVVENTVEVAQFINNNPEFLQLAEPFWKEL  
SHLPSLYDYSAYRRLIDQYGTHYLQSGSLGGEYRVLFYVDSEKLNQDNFNSVEEKKCKSSGWHFVVKFSS  
HGCKELENALKAASGTQNNVLRGEPFIRGGGAGFISGLSYLELDNPAGNKRRYSAWAESVTNLPQVIKQK  
LTPLYELVKEVPCASVKKLYLKWALEEYLDEFDPCHCRPCQNGGLATVEGTHCLCHCKPYTFGAACEQGV  
LVGNQAGGVDGGWSCWSSWSPCVQGKKTRSRECNPPPSGGGRSCVGETTESTQCEDEELEHLRLLEPHC  
FPLSLVPTEFCPSPPALKDGFVQDEGTMFPVGNVYTCNEGYSLIGNPVARCGEDLRWL VGEMHCQKIA  
CVLPVLMDCIQSHPKPFYTVGEKVTVSCSGGMSLEGPSAFLCGSSLKWSPEMKNARCVQKENPLTQAVP  
KCQRWEKLNQSRVCMPYECGPSLDVCAQDERSKRILPLTVCKMHVLCQGRNYTLTGRDSCSLPASAE  
KACGACPLWKGKDAESSKCVCREASEEEEEGFSICVEVNGKEQTMSECEAGALRCRGQSI SVTSIRPCAA  
ETQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

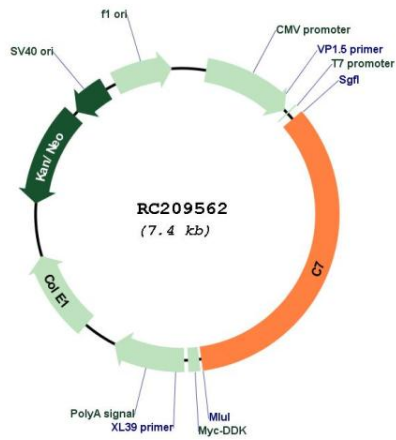
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6527\\_b02.zip](https://cdn.origene.com/chromatograms/mk6527_b02.zip)

**Restriction Sites:** Sgfl-Mlul

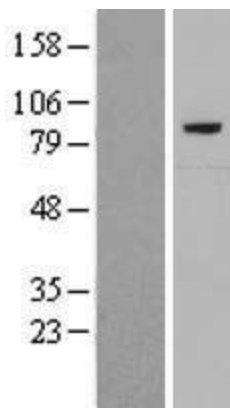


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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_000587.4</a>
<b>RefSeq Size:</b>	4034 bp
<b>RefSeq ORF:</b>	2532 bp
<b>Locus ID:</b>	730
<b>UniProt ID:</b>	<a href="#">P10643</a>
<b>Cytogenetics:</b>	5p13.1
<b>Domains:</b>	CCP, tsp_1, MACPF, IdI_recept_a, FIMAC
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
<b>MW:</b>	93.5 kDa
<b>Gene Summary:</b>	<p>This gene encodes a serum glycoprotein that forms a membrane attack complex together with complement components C5b, C6, C8, and C9 as part of the terminal complement pathway of the innate immune system. The protein encoded by this gene contains a cholesterol-dependent cytolysin/membrane attack complex/perforin-like (CDC/MACPF) domain and belongs to a large family of structurally related molecules that form pores involved in host immunity and bacterial pathogenesis. This protein initiates membrane attack complex formation by binding the C5b-C6 subcomplex and inserts into the phospholipid bilayer, serving as a membrane anchor. Mutations in this gene are associated with a rare disorder called C7 deficiency. [provided by RefSeq, Nov 2016]</p>

Product images:



Circular map for RC209562



Western blot validation of overexpression lysate (Cat# [LY424620]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).