

Product datasheet for **RC204712**

Complement C9 (C9) (NM_001737) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Complement C9 (C9) (NM_001737) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Complement C9
Synonyms:	ARMD15; C9D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204712 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGCCTGCCGAGCTTTGCAGTTGCAATCTGCATTTTAGAATAAGCATCCTCACAGCACAGTACA
 CGACCAGTTATGACCCAGAGCTAACAGAAAGCAGTGGCTCTGCATCACACATAGACTGCAGAATGAGCCC
 CTGGAGTGAATGGTCACAATGCGATCCTTGTCTCAGACAATGTTTCGTTCAAGAAGCATTGAGGTCTTT
 GGACAATTTAATGGGAAAAGATGCACCGACGCTGTGGGAGACAGACGACAGTGTGTGCCACAGAGCCCT
 GTGAGGATGCTGAGGATGACTGCGGAAATGACTTTCAATGCAGTACAGGCAGATGCATAAAGATGCGACT
 TCGGTGTAATGGTGACAATGACTGCGGAGACTTTTCAGATGAGGATGATTGTGAAAGTGAAGTGTGCTCC
 CCCTGCAGAGACAGAGTGGTAGAAGAGTCTGAGCTGGCACGAACAGCAGGCTATGGGATCAACATTTTAG
 GGATGGATCCCCTAAGCACACCTTTTGACAATGAGTCTACAATGGACTCTGTAACCGGGATCGGGATGG
 AAACACTGACATACTACCGAAGACCTTGAACGTGGCTTCTTTGATCTATGAAACCAAAGCGGAGAAA
 AATTTTCAGAACCGAACATTACGAAGAACAATTAAGCATTTAAAAGTATCATCCAAGAGAAGACATCAA
 ATTTTAATGCAGCTATATCTCTAAAATTTACCCCACTGAAACAATAAAGCTGAACAATGTTGTGAGGA
 AACAGCCTCCTCAATTTCTTACATGGCAAGGGTAGTTTTCGGTTTTCATATCCAAAAATGAACTTAC
 CAACTATTTTTGTGATTTCTTCAAAGAAGGAAAAATGTTTCTGCATGTGAAAGGAGAAATTCATCTGG
 GAAGATTTGTAATGAGAAATCGCGATGTTGTGCTCACAACTTTTGTGGATGATATAAAAGCTTTGCC
 AACTACCTATGAAAGGGAGAAATTTTTGCCTTTTGGAACTTATGAACTCACTACAGTAGCTCTGGG
 TCTCTAGGAGGACTCTATGAACTAATATATGTTTTGGATAAAGCTCCATGAAGCGGAAAGGTGTTGAAC
 TAAAAGACATAAAGAGATGCCTTGGGTATCATCTGGATGTATCTCTGGCTTTCTCTGAAATCTCTGTTGG
 AGCTGAATTTAATAAAGATGATTGTGTAAGAGGGGAGGGTAGAGCTGTAAACATCACCAGTGAAAAAC
 CTCATAGATGATGTTGTTTCACTCATAAGAGGTGGAACAGAAAAATGCATTTGAACTGAAAGAAAAGC
 TTCTCCGAGGAACCGTGATTGATGTGACTGACTTTGTCAACTGGGCTCTTCCATAAATGATGCTCCTGT
 TCTCATTAGTCAAAAAGTCTCCTATATAATCTGGTCCAGTAAAAATGAAAAATGCACACCTAAAG
 AAACAAAAGTGGAAAGAGCCATTGAAGACTATATCAATGAATTTAGTGTGAAAGTAAAGTAAAGTAAAG
 AAAATGGAGGTACAGTATTCTAATGGATGAAAGTGTGTTGTGCTGCCATTCAAATTTGAGGGAAT
 TGCTGTGAAATCAGTAAACAAAAAATTTCTGAAGGATTGCCAGCCCTAGAGTCCCAATGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204712 protein sequence
 Red=Cloning site Green=Tags(s)

MSACRSFAVAICILEISILTAQYTTSDPEL TESSGSASHIDCRMSPWSEWSQCDPCLRQMFRRSRIEVF
 GQFNGKRCTDAVGDRRQCVPTPECEDAEDDCGNDFFQCSTGRCIKMRLRCNGDNDCCGDFSDDEDCSEPRP
 PCRDRVVEESELARTAGYGINILGMDPLSTPFDNEFYNGLCNRDRDGNLTYYRRPWNVASLIYETKGEK
 NFRTEHYEEQIEAFKSI IQEKTSNFNAAISLKFTPTETNKAEQCCEETASSISLHGKGSFRFSYSKNETY
 QLF LSYSSKKEKMF LHVKG E IHLGRFVMNRDVL TTTFVDDIKALPTTYEKGEYFAFLETYGYTHYSSG
 SLGGLYELIYVLDKASMKRKGVELKDIKRLGYHLDVSLAFSEISVGAEFNKDDCVKRGEGRAVNITSEN
 LIDDVVSLIRGGTRKYAFELKEKLLRGTVIDVDFVNWASSINDAPVLISQKLSPIYNLVPVKMKNHLK
 KQNLERAIEDYINEF SVRKCHTCQNGGTVILMDGKCLCACPFKFEGIACEISKQKISEGLPALEFPNEK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6438_h10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001737

ORF Size: 1677 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_001737.5](#)

RefSeq Size: 2693 bp

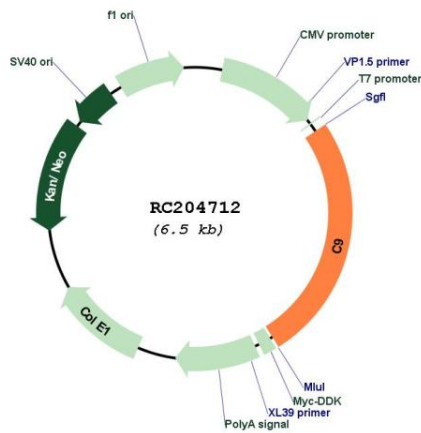
RefSeq ORF: 1680 bp

Locus ID: 735

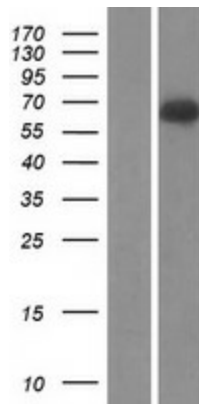
UniProt ID: [P02748](#)

Cytogenetics: 5p13.1
Domains: tsp_1, MACPF, ldl_recept_a
Protein Families: Druggable Genome
Protein Pathways: Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus
MW: 63.2 kDa
Gene Summary: This gene encodes the final component of the complement system. It participates in the formation of the Membrane Attack Complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause component C9 deficiency. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RC204712



Western blot validation of overexpression lysate (Cat# [LY419774]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204712 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).