

## Product datasheet for **RC218963**

### **C1S (NM\_001734) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C1S (NM_001734) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1S
Synonyms:	EDSPD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC218963 representing NM\_001734  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGTGCATTGCTGTTTCTACTTTTGGCATGGGTTTATGCTGAGCCTACCATGTATGGGGAGATCC  
 TGTCCTAACTATCCTCAGGCATATCCAGTGAGGTAGAGAAATCTTGGGACATAGAAGTTCTGAAGG  
 GTATGGGATTCACCTCTACTTACCCCATCTGGACATTGAGCTGTCAGAGAACTGTGCGTATGACTCAGTG  
 CAGATAATCTCAGGAGACACTGAAGAAGGGAGGCTCTGTGGACAGAGGAGCAGTAACAATCCCCACTCTC  
 CAATTGTGAAGAGTTCCAAGTCCCATACAACAACTCCAGGTGATCTTTAAGTCAGACTTTTCCAATGA  
 AGAGCGTTTTACGGGTTTGTGCATACTATGTTGCCACAGACATAAATGAATGCACAGATTTTGTAGAT  
 GTCCTTGTAGCCACTTCTGCAACAATTCATTGGTGGTACTTCTGCTCCTGCCCGGGAATATTTCC  
 TCCATGATGACATGAAGAATTGCGGAGTTAATTGCAGTGGGATGTATTCAGTGCCTGATTGGGGAGAT  
 TGCAAGTCCCAATTATCCCAAACCATATCCAGAGAACTCAAGGTGTAATACCAGATCCGGTTGGAGAAA  
 GGGTTCCAAGTGGTGGTACCTTGGGAGAGAAGATTTTGTGGAAGCAGCTGACTCAGCGGGAACCT  
 GCCTTGACAGTTAGTTTTGTTGCAGGAGATCGGCAATTTGGTCTTACTGTGGTCATGGATCCCTGG  
 GCCTCTAAATATTGAAACCAAGAGTAATGCTCTTGATATCATCTTCCAACTGATCTAACAGGGCAAAAA  
 AAGGGCTGGAACCTTCGCTATCATGGAGATCCAATGCCCTGCCCTAAGGAAGACACTCCCAATTCGTGTT  
 GGGAGCCTGCGAAGGCAAAATATGTCTTTAGAGATGTGGTGCAGATAACCTGTCTGGATGGGTTGAAGT  
 TGTGGAGGACGTGTTGGTGAACATCTTTCTATTCGACTGTCAAAGCAATGAAAGTTGAAGACCCAG  
 AAAGTGAATGTCAACCTGTGGACTGTGGCATTCTGAATCCATTGAGAATGGTAAAGTTGAAGACCCAG  
 AGAGCATTGTTTGGTCTGTCACTCCGCTACACTTGTGAGGAGCCATATTACTACATGGAAAATGGAGG  
 AGGTGGGAGATCACTGTGCTGGTAACGGGAGCTGGGTGAATGAGGTGCTGGGCCCGGAGCTGCCGAAA  
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 GTACTGGGTGCTGACGGCTGCTCATGTTGTGGAGGAAACAGGGAGCCAAACAATGTATGTTGGGTCCACC  
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 GGAAGCTGCTGGAAGTCCAGAAGGACGAACCAATTTTGATAATGACATTGCACTGGTGGGCTGAAAGA  
 CCCAGTGAATGGGACCCACCTCTCTCCATCTGCCTACCAGGCACCTCTCCGACTACAACCTCATG  
 GATGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTGTGTTGCCTCAAGG  
 CGGCAAGGTTACCTGTAGCTCCTTAAGAAAATGCAAAGAAGTAAAGTGGAGAAACCCACAGCAGATGC  
 AGAGGCCATGTTTTCACTCCTAACATGATCTGTGCTGGAGGAGAGAAGGCATGGATAGCTGTAAGGG  
 GACAGTGGTGGGCTTTGCTGTACAGGATCCCAATGACAAGACCAATTTCTACGCAGCTGGCCTGGTGT  
 CCTGGGGCCCCAGTGTGGGACCTATGGGCTCTACACCGGTAAGAAGTATGTTGACTGGATAATGAA  
 GACTATGCAGGAAAATAGCACCCCCGTGAGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC218963 representing NM\_001734  
Red=Cloning site Green=Tags(s)

MWCIVLFSLLAWVYAEPPTYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLFYFTHLDIELSENCAVDV  
 QIISGDTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYVATDINECTDFVD  
 VPCSHFCNNFIGGYFCSCPPEYFLHDDMKNCGVNCSGDVFTALIGEIASPNYPKYPENSRCHEYQIRLEK  
 GFQVVVTLRREDFDVEAADSAGNCLDSL VVAGDRQFGPYCGHGFPGPLNIETKSNALDIIFQDTL TGQK  
 KGWKLRYHGDPMPCKEDTPNSVWEPKAKYVFRDVVQITCLDGFVVEGRVGVGATSFYSTCQSNKWSNS  
 KLKQCQPVDCGIPESIEGKVEDPESTLFGSVIRYTCPEEPPYYMENGGGGEYHCAGNGSWVNEVLGPPEPK  
 CVPVCGVPREPFEEKQRIIGGSDADIKNFPQVFFDNPWAGGALINEYWVLTAAHVVEGNREPTMYVGST  
 SVQTSRLAKSKMLTPEHVF IHPGWKLLVEPEGRTNFDNDIALVRLKDPVKMGPTVSPICLPGTSSDYNLM  
 DGDGLISGWGRTEKRDRAVRLKAARLPVAPLRKCKEVKVEKPTADAEAYVFTPNMICAGGEKGMDSCKG  
 DSGGAFVQDPNDKTKFYAAGLVSWGPQCGTYGLYTRVKNYVDWIMKTMQENSTPRED

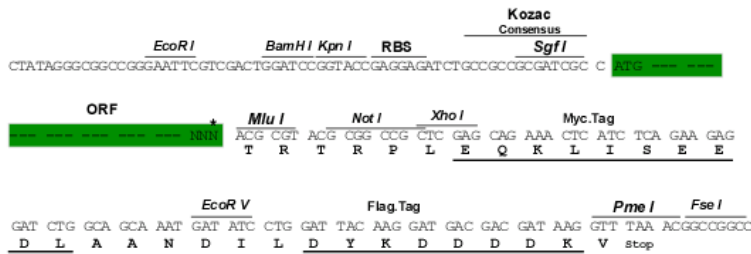
TRTRPLEQKLISEEDLANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6163\\_e09.zip](https://cdn.origene.com/chromatograms/mk6163_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001734

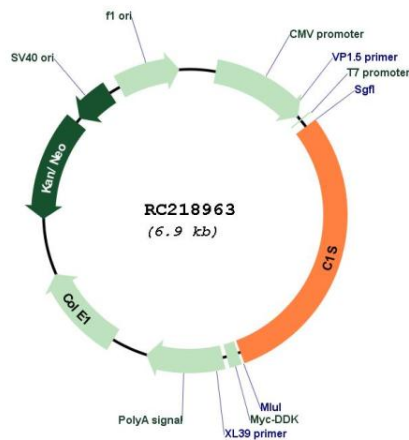
**ORF Size:** 2064 bp

**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](#)

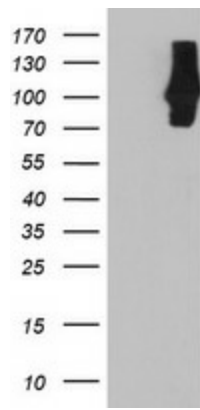
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_001734.5</a>
<b>RefSeq Size:</b>	2714 bp
<b>RefSeq ORF:</b>	2067 bp
<b>Locus ID:</b>	716
<b>UniProt ID:</b>	<a href="#">P09871</a>
<b>Cytogenetics:</b>	12p13.31
<b>Domains:</b>	CCP, CUB, Tryp_SPc, EGF_CA, EGF
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Complement and coagulation cascades, Systemic lupus erythematosus
<b>MW:</b>	76.68 kDa
<b>Gene Summary:</b>	This gene encodes a serine protease, which is a major constituent of the human complement subcomponent C1. C1s associates with two other complement components C1r and C1q in order to yield the first component of the serum complement system. Defects in this gene are the cause of selective C1s deficiency. [provided by RefSeq, Mar 2009]

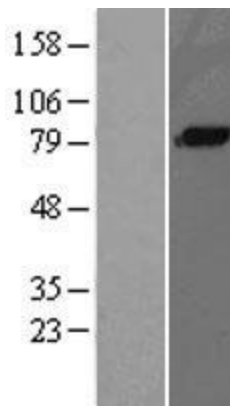
### Product images:



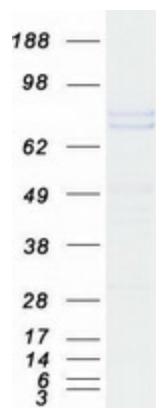
Circular map for RC218963



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C1S (Cat# RC218963, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C1S (Cat# [TA503953]). Positive lysates [LY400655] (100ug) and [LC400655] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400655]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218963 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified C1S protein (Cat# [TP318963]). The protein was produced from HEK293T cells transfected with C1S cDNA clone (Cat# RC218963) using MegaTran 2.0 (Cat# [TT210002]).