

## Product datasheet for **MR207418**

### **Cs (NM\_026444) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cs (NM_026444) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cs
Synonyms:	2610511A05Rik; 9030605P22Rik; ah; Ahl4; BB234005; C; Cis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207418 representing NM\_026444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTCTACTACTGCAGCAACCCGGCTCTTGGGAGCCAAGAACTCATCCTGCCTCGTCTTGGTCC  
 GGCATGCCAGTGTCTTCCACGAATTTGAAAGATGTACTGAGCAATCTGATACCTAAGGAGCAGGCCAG  
 AATTAAGACCTTCAAGCAGCAACATGGGAAGACAGTGGTGGGCCAGATCACTGTGGACATGATGTACGGT  
 GGCATGAGAGGCATGAAGGGACTTGTGTATGAGACTTCGGTTCTTGATCCTGACGAGGGCATCCGTTTCC  
 GAGGCTACAGTATCCCTGAGTGCCAGAAAATGCTGCCTAAGGCTAAGGGTGGAGAAGAACCCTGCCTGA  
 GGGCTTATTTGGCTGCTGGTAACTGGACAGATGCCACAGAGGAACAGGTGTCTTGGCTCTCACAGAA  
 TGGGCAAAAAGGGCAGCTCTGCCTTCTCATGTGGTCACCATGTGGACAATTTTCCAACCAATCTGCACC  
 CTATGTCTCAGCTCAGTGCAGCCATCACAGCCCTCAACAGTCAAAGCAACTTCGCCCGGGCATATGCAGA  
 GGAATGAACCGAGCTAAGTACTGGGAGCTCATCTATGAGGACTGCATGGACCTATTGCCAAGCTGCCG  
 TCGGTTGCAGCCAAGATCTACCGAATCTGTACCGGGAGGGCAGCAGTATCGGAGCCATTGACTCTAGGC  
 TAGACTGGTCACACAATTTACCAACATGTTAGGCTACACCGACCCTCAGTTCACCGAGCTCATGCGTTT  
 GTACCTCACCATCCATAGTGACCATGAGGGTGGTAATGTAAGTGGCCACACAAGCCATTTGGTGGGCAGC  
 GCCTTTCAGACCCTTACCTGTCTTTGCAGCAGCCATGAATGGGCTGGCGGGCCCTCTACATGGACTAG  
 CAAATCAGGAGGTGCTTGTCTGGCTGACACAGCTACAGAAGGAAGTTGGCAAAGACGTGTGAGTGAAG  
 GTTACGAGACTACATCTGGAACACACTCAATTCAGGACGGTGGTCCCAGGATACGGTATGCAGTACTG  
 AGGAAGACTGACCCTCGCTATTCCTGTGAGCAGAGATTTGCTCTGAAACATCTGCCTAAGGATCCCATGT  
 TCAAGCTGGTGGCTCAGCTGTACAAGATTGTGCCAATATCCTCTTAGAGCAAGGAAGGCTAAGAACC  
 TTGGCCCAACGTAGACGCTCACAGTGGGGTGTGCTCCAGTACTATGGCATGACGGAGATGAACACTAC  
 ACAGTCTGTTTGGAGTGTCTCGGGCACTGGGTGTGCTAGCCAGCTCATCTGGAGCAGACCCTAGGCT  
 TCCCCCTGAAAGGCCCAAGTCCATGAGCACGGATGGCCTGATGAAGTTTGTGGACTCTAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207418 representing NM\_026444  
 Red=Cloning site Green=Tags(s)

MALLTAATRLLGAKNSSCLVLAARHASASSTNLKDVLSNLIPEQARIKTFKQHGKTVVGGQITVDMY  
 GMRGMKGLVYETSVLDPDEGIRFRGYSIPECQKMLPKAKGGEPLPEGLFWLLVTGQMPTEEQVSWLSRE  
 WAKRAALPSHVVTMLDNFPTNLHPMSQLSAAITALNSESNFARAYAEGMNRACYWELIYEDCMDLIAKLP  
 CVAAKIYRNLVREGSSIGAIIDSRLDWSHNFNMLGYTDPQFTLMRLYLTIHSDHEGGNVAHTSHLVGS  
 ALSDPYLSFAAAMNLAGPLHGLANQEVLVWLTQLQKEVGKDVSEKLRDYIWNLTNSGRVVPYGHAVL  
 RKTDPRYSCQREFALKHLPKDPMFKLVAQLYKIVPNILLEQGKAKNPWPVNDVHSGVLLQYYGMTEMNY  
 TVLFGVSRALGVLAQLIWSRALGFPLERPKSMSTDGLMKFVDSK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9043\\_g01.zip](https://cdn.origene.com/chromatograms/mm9043_g01.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_026444

ORF Size: 1392 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\\_026444.4](#)

RefSeq Size: 2828 bp

RefSeq ORF: 1395 bp

Locus ID: 12974

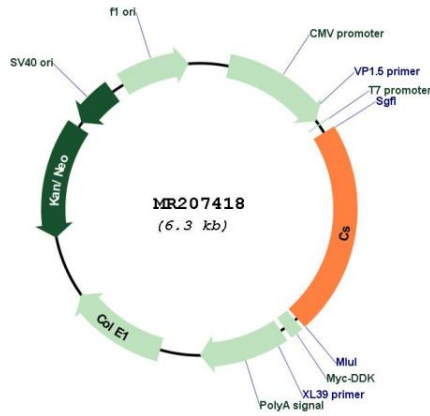
UniProt ID: [Q9CZU6](#)

Cytogenetics: 10 D3

MW: 52.2 kDa

Gene Summary: The protein encoded by this gene is a central metabolic pathway enzyme, catalyzing the first step of the tricarboxylic acid cycle in which acetyl coenzyme A and oxaloacetate are converted to citrate and coenzyme A. This enzyme is found in nearly all cells capable of oxidative metabolism. This protein is nuclear encoded and transported into the mitochondrial matrix, where the mature form is found. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR207418