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Product datasheet for MG207418

Cs (NM_026444) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cs (NM_026444) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cs
Synonyms:	2610511A05Rik; 9030605P22Rik; ah; Ahl4; BB234005; C; Cis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG207418 representing NM_026444
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCTACTCACTGCAGCAACCCGGCTCTTGGGAGCCAAGAACTCATCCTGCCTCGTCCTTGCTGCCC
GGCATGCCAGTGCTTCTTCCACGAATTTGAAAGATGTACTGAGCAATCTGATACCTAAGGAGCAGGCCAG
AATTAAGACCTTCAAGCAGCAACATGGGAAGACAGTGGTGGGCCAGATCACTGTGGACATGATGTACGGT
GGCATGAGAGGCATGAAGGGACTTGTGTATGAGACTTCGGTTCTTGATCCTGACGAGGGCATCCGTTTCC
GAGGCTACAGTATCCCTGAGTGCCAGAAAATGCTGCCTAAGGCTAAGGGTGGAGAAGAACCCCTGCCTGA
GGGCTTATTTTGGCTGCTGGTAACTGGACAGATGCCCACAGAGGAACAGGTGTCTTGGCTCTCACGAGAA
TGGGCAAAAAGGGCAGCTCTGCCTTCTCATGTGGTCACCATGCTGGACAATTTTCCAACCAATCTGCACC
CTATGTCTCAGCTCAGTGCAGCCATCACAGCCCTCAACAGTGAAAGCAACTTCGCCCGGGCATATGCAGA
GGGAATGAACCGAGCTAAGTACTGGGAGCTCATCTATGAGGACTGCATGGACCTCATTGCCAAGCTGCCG
TGCGTTGCAGCCAAGATCTACCGGAATCTGTACCGGGAGGGCAGCAGTATCGGAGCCATTGACTCTAGGC
TAGACTGGTCACACAATTTTACCAACATGTTAGGCTACACCGACCCTCAGTTCACCGAGCTCATGCGTTT
GTACCTCACCATCCATAGTGACCATGAGGGTGGTAATGTAAGTGCCCACACAAGCCATTTGGTGGGCAGC
GCCCTTTCAGACCCTTACCTGTCCTTTGCAGCAGCCATGAATGGGCTGGCGGGGCCTCTACATGGACTAG
CAAATCAGGAGGTGCTTGTCTGGCTGACACAGCTACAGAAGGAAGTTGGCAAAGACGTGTCAGATGAGAA
GTTACGAGACTACATCTGGAACACACTCAATTCAGGACGGGTGGTCCCAGGATACGGTCATGCAGTACTG
AGGAAGACTGACCCTCGCTATTCCTGTCAGCGAGAGTTTGCTCTGAAACATCTGCCTAAAGATCCCATGT
TCAAGCTGGTGGCTCAGCTGTACAAGATTGTGCCCAATATCCTCTTAGAGCAAGGGAAGGCTAAGAACCC
TTGGCCCAACGTAGACGCTCACAGTGGGGTGCTGCTCCAGTACTATGGCATGACGGAGATGAACTACTAC
ACAGTCCTGTTTGGAGTGTCTCGGGCACTGGGTGTGCTAGCCCAGCTCATCTGGAGCAGAGCCCTAGGCT
TCCCCCTGGAAAGGCCCAAGTCCATGAGCACGGATGGCCTGATGAAGTTTGTGGACTCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

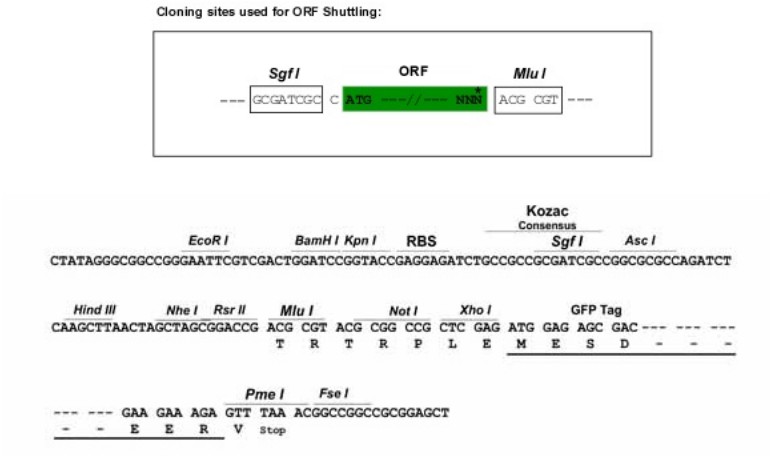
>MG207418 representing NM_026444
Red=Cloning site Green=Tags(s)

MALLTAATRLLGAKNSSCLVLAARHASASSTNLKDVLSNLIPKEQARIKTFKQQHGKTVVGQITVDMMYG
GMRGMKGLVYETSVLDPDEGIRFRGYSIPECQKMLPKAKGGEEPLPEGLFWLLVTGQMPTEEQVSWLSRE
WAKRAALPSHVVTMLDNFPTNLHPMSQLSAAITALNSESNFARAYAEGMNRAKYWELIYEDCMDLIAKLP
CVAAKIYRNLYREGSSIGAIDSRLDWSHNFTNMLGYTDPQFTELMRLYLTIHSDHEGGNVSAHTSHLVGS
ALSDPYLSFAAAMNGLAGPLHGLANQEVLVWLTQLQKEVGKDVSDEKLRDYIWNTLNSGRVVPGYGHAVL
RKTDPRYSCQREFALKHLPKDPMFKLVAQLYKIVPNILLEQGKAKNPWPNVDAHSGVLLQYYGMTEMNYY
TVLFGVSRALGVLAQLIWSRALGFPLERPKSMSTDGLMKFVDSK

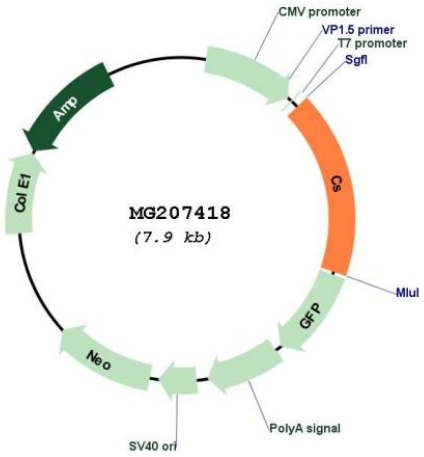
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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_026444.2
RefSeq Size:	2828 bp
RefSeq ORF:	1395 bp
Locus ID:	12974
UniProt ID:	Q9CZU6
Cytogenetics:	10 D3
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]