

## Product datasheet for **MG206899**

### Cmas (NM\_009908) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cmas (NM_009908) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cmas
Synonyms:	AW208911; CMPNeu5Ac; D6Bwg0250e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG206899 representing NM\_009908, **codon optimized**.  
**Due to the complexity of NM\_009908, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACGCCCTTGAAAAGGGTGCAGCAACATCCGGCCCTGCTCCAAGGGGACGGCCTTCTCGGGCCGGC  
 CACCAAAGCTTCAAAGGTCAAGGGGCGCGGAAGAGGTCTCGAGAAACCACCCACTTGGCAGCACTTGT  
 GCTGGCCCGGGGGAAGCAAGGGGATCCCTCTGAAGAACATAAAGAGGTTGGCTGGGGTGCCTCTGATC  
 GGCTGGGTCTTCGGGCTGCGCTGGATGCTGGAGTTTTCCAGTCCGTGTGGGTATCTACAGACCATGACG  
 AAATCGAAAACGTAGCCAAACAGTTTGGAGCCAGGTGCACAGGAGAAGTTCAGAAAACAAGTAAGGATTC  
 CAGTACAAGCCTGGACGCCATCGTGAATTTCTGAATTACCACAATGAAGTGGATATCGTTGGCAACATC  
 CAGGCCACGAGCCCTGCCTGCACCCAACAGATCTGCAGAAGGTGGCCGAGATGATCAGGGAGGAAGGGT  
 ATGATAGTGTCTCTGTTGTCCGGAGGCATCAGTTCGGGTGGTCCGAGATTCAAAAGGGGGTGCGGGA  
 AGTGACAGAACCCTCAACCTCAACCTGCCAAGCGCCCTCGCCGACAGGATTGGGATGGAGAAGTGTAT  
 GAAAACGGGTCTTTTTATTCGCCAAACGCCACCTGATAGAAATGGGGTACCTGCAGGGAGGCAAGATGG  
 CATATTACGAGATGAGAGCAGAACAACCTCCGTGGATATCGACGTGGATATCGACTGGCCATCGCCGAGCA  
 GAGGGTCTCGGATTTGGCTACTTCGGTAAGGAAAAGTTGAAGGAGATCAAGCTCCTGGTGTAAACATC  
 GACGGTCTGTGACCAACGGACATATCTATGTGTCCGGTGACCAGAAAGAGATCATCTCCTACGATGTGA  
 AAGATGCTATCGGTATTAGTCTGTTGAAAAATCTGGCATCGAGTTCGATTGATTTCTGAGAGAGCTTG  
 CAGTAAGCAGACTCTCTGCACTGAAACTCGATTGAAAACGGAAGTTCCGTGTCTGACAAGCTGGCA  
 ACTGTGGATGAGTGGCGCAAAGAGATGGCCTGTGTTGGAAGGAAGTGGCTTATCTGGGGAATGAAGTTT  
 CCGATGAAGAGTGCCTGAAGCGGTGGGACTGTCCGCAGTACCAGCTGATGCATGTAGTGGCGCCAGAA  
 GGCCGTCGGCTATATCTGCAAGTGTAGCGGTGGAAGAGGCCCATCCGCGAATTCGCAGAGCATATTTT  
 CTCCTGATTGAGAAGTCAATAATCTGCCAAAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG206899 representing NM\_009908  
 Red=Cloning site Green=Tags(s)

MDALEKGAATSGPAPRGRPSRGRPPKLQSRGAGRGLEKPPHLAALVLARGGSKGIPLKNIKRLAGVPLI  
 GWVLRALDAGVFQSVVWSTDHDEIENVAKQFGAQVHRRSSETSKDSSTSLDAIVEFLNYHNEVDIVGNI  
 QATSPCLHPTDLQKVAEMIREEGYDSVFSVRRHQFRWSEIQKGVREVTPLNLPKRPRRQDWDGELY  
 ENGSFYFAKRHLIEMGYLQGGKMAYYEMRAEHSVDIDVDIDWPIAEQVLRFGYFGKEKLKEIKLLVCNI  
 DGCLTNGHIYVSGDQKEIISYDVKDAIGISLLKKSIEVRLISERACSKQTL SALKLDCKTEVSVDKLA  
 TVDEWRKEMGLCWKEVAYLGNEVSDEECLKRVGLSAVPADACSGAQKAVGYICKCSGGRGAIREFAEHIF  
 LLIEKVNNSCQK

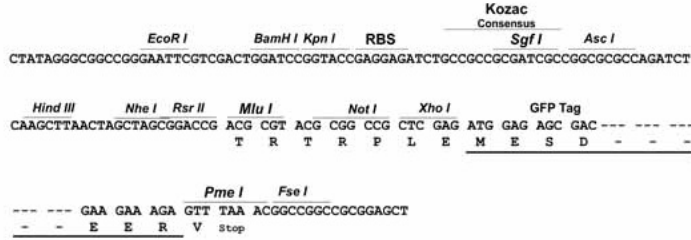
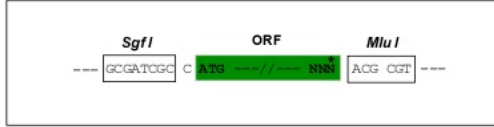
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

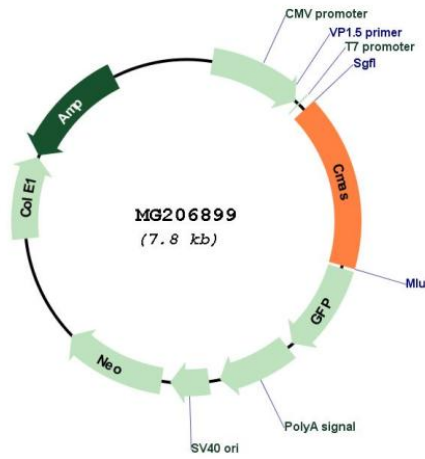
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_009908
<b>ORF Size:</b>	1296 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_009908.2</a> , <a href="#">NP_034038.2</a>
<b>RefSeq Size:</b>	1760 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	12764
<b>UniProt ID:</b>	<a href="#">Q99KK2</a>
<b>Cytogenetics:</b>	6 74.66 cM
<b>Gene Summary:</b>	Catalyzes the activation of N-acetylneuraminic acid (NeuNAc) to cytidine 5'-monophosphate N-acetylneuraminic acid (CMP-NeuNAc), a substrate required for the addition of sialic acid. Has some activity toward NeuNAc, N-glycolylneuraminic acid (Neu5Gc) or 2-keto-3-deoxy-D-glycero-D-galacto-nononic acid (KDN).[UniProtKB/Swiss-Prot Function]