

## Product datasheet for **RG223608**

### CMAS (NM\_018686) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CMAS (NM_018686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CMAS
Synonyms:	CSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223608 representing NM_018686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACTCGGTGGAGAAGGGGGCCGCCACCTCCGTCCTCCAACCCGCGGGGGCGACCGTCCCGGGGCCGGC  
CGCCGAAGCTGCAGCGCAACTCTCGCGCGGCCAGGGCCGAGGTGTGGAGAAGCCCCGCACCTGGCAGC  
CCTAATCTGGCCCGGGAGGCAGCAAAGGCATCCCCCTGAAGAACATTAAGCACCTGGCGGGGTCCCG  
CTCATTGGCTGGTCTCGGTGCGGCCCTGGATTCAGGGCCCTCCAGAGTGTATGGTTTCGACAGACC  
ATGATGAAATTGAGAATGTGCCAAACAATTTGGTGCACAAGTTCATCGAAGAAGTCTGAAGTTTCAA  
AGACAGCTCTACCTCACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGTTGACATTGTAGGA  
AATATTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTCCGAGAAG  
AAGGATATGATTCTGTTTTCTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTGAATTCAGAAAGGAGT  
TCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGCCTCGTCGACAAGACTGGGATGGAGAA  
TTATATGAAAATGGCTCATTTTTATTTGCTAAAAGACATTTGATAGAGATGGGTTACTTGCAGGGTGAA  
AAATGGCATACTACGAAATGCGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGC  
AGAGCAAAGAGTATTAAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAACTTTTGGTTTGC  
AATATTGATGGATGTCTACCAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATAATATCTTATG  
ATGTAAGATGCTATTGGGATAAGTTTTATTAAGAAAAGTGGTATTGAGGTGAGGCTAATCTCAGAAAG  
GGCCTGTTCAAAGCAGACGCTGTCTTTAAAAGTGGATTGCAAAAATGGAAGTCAGTGTATCAGACAAG  
CTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGGCCTGTGCTGGAAAAGTGGCATATCTTGGAAATG  
AAGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCTAAGTGGCGCTCCTGCTGATGCCTGTTCTACTGC  
CCAGAAGGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGGTCCATCCGAGAATTTGCAGAGCAC  
ATTTGCCACTAATGGAAAAGGTTAATAATTCATGCCAAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG223608 representing NM\_018686  
Red=Cloning site Green=Tags(s)

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVP  
 LIGWLRAALDSGAFQSVVWSTDHDEIENVAKQFQAQVHRRSSEVSKDSSTSLDAIEFLNYHNEVDIVG  
 NIQATSPCLHPTDLQKVAEMIREEGYDSVFSVRRRHQFRWSEIQKGVREVTEPLNLPKRPRRQDWDGE  
 LYENGSFYFAKRHLIEMGYLQGGKMAYYEMRAEHSVDIDVIDWPIAEQVRLRYGYFGKEKLEIKLLVC  
 NIDGCLTNGHIYVSGDQKEIISYDVKDAIGISLLKKSIEVRLISERACSKQTLSSLKLDCKMEVSVSDK  
 LAVVDEWRKEMGLCWKEVAYLGNEVSDEECLKRVGLSGAPADACSTAQKAVGYICKCNGGRGAIREFAEH  
 ICLLMEKVNNSCQK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018686

**ORF Size:** 1302 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\\_018686.6](#)

**RefSeq Size:** 1741 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 55907

**UniProt ID:** [Q8NFW8](#)

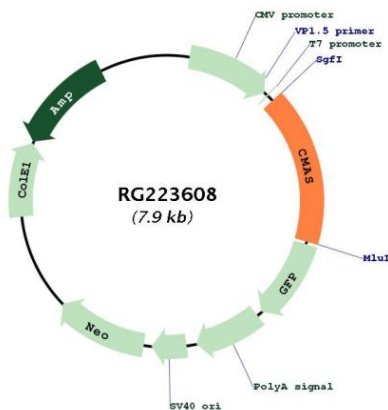
**Cytogenetics:** 12p12.1

**Domains:** CTP\_transf\_3

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Metabolic pathways

**Gene Summary:** This gene encodes an enzyme that converts N-acetylneuraminic acid (NeuNAc) to cytidine 5'-monophosphate N-acetylneuraminic acid (CMP-NeuNAc). This process is important in the formation of sialylated glycoprotein and glycolipids. This modification plays a role in cell-cell communications and immune responses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

## Product images:



Circular map for RG223608