

Product datasheet for **RC223608**

CMAS (NM_018686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMAS (NM_018686) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CMAS
Synonyms:	CSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC223608 representing NM_018686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTCGTGGAGAAGGGGGCCACCTCCGTCTCCAACCCGCGGGGCGACCGTCCCAGGGCCGGC
 CGCCGAAGCTGCAGCGCAACTCTCGCGCGGCCAGGGCCGAGGTGTGAGAAGCCCCGCACCTGGCAGC
 CCTAATCTGGCCCGGGAGGCAGCAAAGGCATCCCCCTGAAGAACATTAAACACCTGGCGGGGTCCC
 CTCATTGGCTGGGTCTGCGTGCAGCCCTGGATTCAGGGCCCTCCAGAGTGTATGGGTTTCGACAGACC
 ATGATGAAATTGAGAATGTGCCAAACAATTTGGTGCACAAGTTCATCGAAGAAGTTCTGAAGTTTCAA
 AGACAGCTCTACCTCACTAGATGCCATCATAGAATTTCTAATTATCATAATGAGGTTGACATTGTAGGA
 AATATTCAAGCTACTTCTCCATGTTTACATCTACTGATCTTCAAAAAGTTGCAGAAATGATTGAGAA
 AAGGATATGATTCTGTTTCTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTGAATTCAGAAAGGAGT
 TCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGCCTCGTCGACAAGACTGGGATGGAGAA
 TTATATGAAAATGGCTCATTTTATTTTGTCTAAAAGACATTTGATAGAGATGGGTTACTTGCAGGGTGAA
 AAATGGCATACTACGAAATGCGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGC
 AGAGCAAAGAGTATTAAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAACTTTTGGTTTGC
 AATATTGATGGATGTCTACCAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATAATATCTTATG
 ATGTAAGAGATGCTATTGGGATAAGTTTATTAAGAAAAGTGGTATTGAGGTGAGGCTAATCTCAGAAAG
 GGCCTGTTCAAAGCAGACGCTGTCTTTTAAACTGGATTGCAAAATGGAAGTCAGTGTATCAGACAAG
 CTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGGCCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATG
 AAGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCTAAGTGGCGCTCCTGCTGATGCCTGTTCTACTGC
 CCAGAAGGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGGTGCCATCCGAGAATTTGCAGAGCAC
 ATTTGCCTACTAATGAAAAGGTTAATAATTCATGCCAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223608 representing NM_018686
 Red=Cloning site Green=Tags(s)

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVP
 LIGWVLR AALDSGAFQSVVSTDHDEIENVAKQFQAQVHRRSSEVSKDSSTSLDAIEFLNYHNEVDIVG
 NIQATSPCLHPTDLQKVAEMIREEGYDSVFSVRRHQFRWSEIQKGVREVTEPLNLPKRPRRQDWDGE
 LYENGSFYFAKRHLIEMGYLQGGKMAYYEMRAEHSVDIDVDIDWPIAEQVRLRYGYFGKEKLEIKLLVC
 NIDGCLTNGHIYVSGDQKEIISYDVKDAIGISLLKKSIEVRLISERACSKQTLSSLKLDCKMEVSVSDK
 LAVVDEWRKEMGLCWKEVAYLGNEVSDEECLKRVGLSGAPADACSTAQKAVGYICKNNGRGGAIREFAEH
 ICLLMEKVNNSCQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6157_h02.zip

Restriction Sites:

Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018686.6](#)

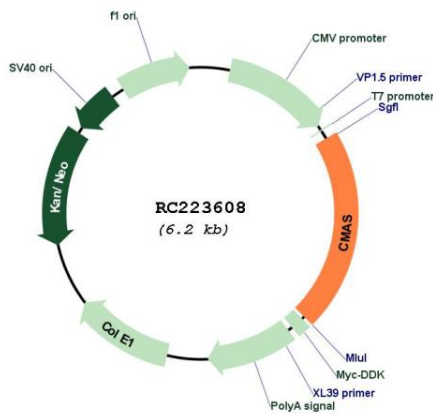
RefSeq Size: 1741 bp

RefSeq ORF: 1305 bp

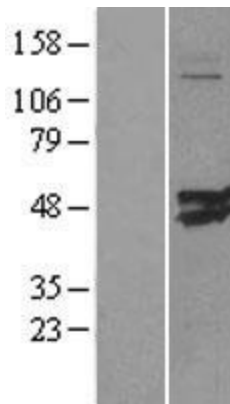
Locus ID: 55907

UniProt ID: [Q8NFW8](#)
Cytogenetics: 12p12.1
Domains: CTP_transf_3
Protein Pathways: Amino sugar and nucleotide sugar metabolism, Metabolic pathways
MW: 48.2 kDa
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]

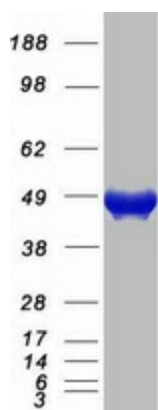
Product images:



Circular map for RC223608



Western blot validation of overexpression lysate (Cat# [LY402711]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223608 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CMAS protein (Cat# [TP323608]). The protein was produced from HEK293T cells transfected with CMAS cDNA clone (Cat# RC223608) using MegaTran 2.0 (Cat# [TT210002]).