OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC113361

CMAS (NM_018686) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMAS (NM_018686) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMAS
Synonyms:	CSS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC113361 sequence for NM_018686 edited (data generated by NextGen Sequencing)

ATGGACTCGGTGGAGAAGGGGGCCGCCACCTCCGTCTCCAACCCGCGGGGGCGACCGTCC
CGGGGCCGGCCGCCGAAGCTGCAGCGCAACTCTCGCGGCGGCCAGGGCCGAGGTGTGGAG
AAGCCCCCGCACCTGGCAGCCCTAATTCTGGCCCGGGGAGGCAGCAAAGGCATCCCCCTG
AAGAACATTAAGCACCTGGCGGGGGTCCCGCTCATTGGCTGGGTCCTGCGTGCGGCCCTG
GATTCAGGGGCCTTCCAGAGTGTATGGGTTTCGACAGACCATGATGAAATTGAGAATGTG
GCCAAACAATTTGGTGCACAAGTTCATCGAAGAAGTTCTGAAGTTTCAAAAGACAGCTCT
ACCTCACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGACATTGTAGGA
AATATTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATG
ATTCGAGAAGAAGGATATGATTCTGTTTTCTCTGTTGTGAGACGCCATCAGTTTCGATGG
AGTGAAATTCAGAAAGGAGTTCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAA
CGGCCTCGTCGACAAGACTGGGATGGAGAATTATATGAAAATGGCTCATTTTATTTTGCT
AAAAGACATTTGATAGAGATGGGTTACTTGCAGGGTGGAAAAATGGCATACTACGAAATG
CGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGCAGAGCAAAGA
GTATTAAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAAACTTTTGGTTTGC
AATATTGATGGATGTCTCACCAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATA
ATATCTTATGATGTAAAAGATGCTATTGGGATAAGTTTATTAAAGAAAAGTGGTATTGAG
GTGAGGCTAATCTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTTAAAACTGGAT
TGCAAAATGGAAGTCAGTGTATCAGACAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAA
ATGGGCCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATGAAGTGTCTGATGAAGAGTGC
TTGAAGAGAGTGGGCCTAAGTGGCGCTCCTGCTGATGCCTGTTCTACTGCCCAGAAGGCT
GTTGGATACATTTGCAAATGTAATGGTGGCCGTGGTGCCATCCGAGAATTTGCAGAGCAC
ATTTGCCTACTAATGGAAAAGGTTAATAATTCATGCCAAAAATAG

Clone variation with respect to NM_018686.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018686 unedited
GTAATACGACTCACTATAGGGCGGCCCGCGAATTCGCACGAGGGCGGCGCCGAGCTGAGG
TGGTGAGGGACTAGCTCCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAGGAAGATGG
ACTCGGTGGAGAAGGGGGCCGCCACCTCCGTCTCCAACCCGCGGGGGCGACCGTCCCGGG
GCCGGCCGCCGAAGCTGCAGCGCAACTCTCGCGGCGGCCAGGGCCGAGGTGTGGAGAAGC
CCCCGCACCTGGCAGCCCTAATTCTGGCCCGGGGAGGCAGCAAAGGCATCCCCCTGAAGA
ACATTAAGCACCTGGCGGGGGTCCCGCTCATTGGCTGGGTCCTGCGTGCGGCCCTGGATT
CAGGGGCCTTCCAGAGTGTATGGGTTTCGACAGACCATGATGAAATTGAGAATGTGGCCA
AACAATTTGGTGCACAAGTTCATCGAAGAAGTTCTGAAGTTTCAAAAGACAGCTCTACCT
CACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGACATTGTAGGAAATA
TTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTC
GAGAAGAAGGATATGATTCTGTTTTCTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTG
AAATTCAGAAAGGAGTTCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGC
CTCGTCGACAAGACTGGGATGGAGAATTATATGAAAATGGCTCATTCTATTCTGCTAAAA
GACATTTGATAGAGATGGGGTACTTGCACGCTGGGAAAATGGCATACTACGAAATGCGAG
CTGAACTAGTGTGGATATAGATGGGATATTGATGGCCCTATTGCAGAGCAAGGAGTATAA
GATTAGCTATTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018686 unedited
CCCCCNGCGGNCCCAGCCNNTCACTNTCCCCCTTCTCTATTGACTCTGGNACCGCGGCCG
CATNCTANGATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAGGTGG
AAAAAGTATTTTTATTAATAAAAGGGCATGTTTTACCATACACACTGTCCCCAAAAAAAA
AATCCCAACATTTTTGAAAGCACACAAACACACAGTTTTACAGGGTACAATACAAAGGGA
ACTTTGAGGATGTTCTTACTTGCATTAACTAAAAATCTGAAAAAAACTGAAATCAGCCTT
TAAATAATTATCTTGCGTAAAGAGAAAAGTAGAGCCCATTATTTTTTTTTCACAAACCAA
ATCACACTCTTTGTAACATTACAACATGGAATTTACTTAATCAAAAATAAAAGCAAACTG
GCTGAAAAAGGCTGAATAATTTTTTTCTCAATATTACGCTAATTTCTATTTTTGGCATGA
ATTATTAACCTTTTCCATTAGTAGGCAAAGGTGCTCTGCAAATTCTCGGATGGCACCACG
GCCACCATTACTTTTGAAAAGGTATCCACCAGCCTTCTGGGCAGTAAAACAGGCATCACC
AGGAGCGCCACTTTGGCCAATTTTTTTAAAGCCCTCTTTATAGAACTCTTTATTTCCCAA
GATTGCCACTTTTTTCCAGAACAGCCCCATTTTTTTTCTCATTCATCTACAACGGGTAAC
TTGCCTGAAACACTGGCTTCCTTTTTGCAATCCAAGTTTAAAAAAAAACAGCGTTTGTTT
TAAAAAGGCCCCTTTTTGAAAATAACCCTCCCCTCAAAAACCCTTTTTTTTTTTATAAAAC
CTTATCCCAAAAAGCACCTTTTTAACACTCAAAAAAAATTTATTTTTTTTTTTGGCCTCC
TGAAACACAAAAGTGGGCCTTTGGGGGAAAACACCCCTCAATTTTGGGAAACCCAAAGTT
TTTTTTCTTTTG

Restriction Sites: NotI-NotI

ACCN: NM_018686

Insert Size: 1820 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_018686.3, NP_061156.1
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] Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.