

Product datasheet for **MC228198**

Cmah (NM_001284520) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmah (NM_001284520) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cmah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228198 representing NM_001284520
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGTCTCCTGTGAAGTTGCCAACCTCAAGG
 AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT
 AAAGGCATGCAAGAACCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA
 AGGTCCGTTAAATGCACAAAGCACAACCTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG
 GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA
 CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA
 TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTTGTTAATTG
 GCCCTGCTTTGCCCGAGGATGGTGGTGTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA
 AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC
 CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA
 GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG
 GTTCATGATCTTGATGGACGGCTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGAGGAA
 TGGAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATTACAAAGCTCAGCTGGTGAAGGACC
 TGCAGCCCCGAATCTACTGTCCGTTTGTGGGTACTTTGTGGAGTCTCACCCATCTGACAAGTACATTAA
 GGAACAAACACCAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGACA
 TGGACCCACGACCTGGCGCTGTCTCGACCTTGGCAGGATGCTGAAGGACCAACAGACAGCAAGGGCA
 TTGTGGAGCCTCCAGAGGGGACAAGATTACAAGGATTCTGGGACTTTGGCCCGTACCTGGAGATCTT
 GAATTCGTCTCAGAGATGAAATCTTCTGTCTTCATTCCTGGATTAAAGAGTACTTCACGTGGGCTGGA
 TTTAAGAATTACAACCTGGTGGTCAGGATGATTGAAACAGATGAAGATTTAGCCCTTTTCTGGAGGGT
 ACGACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGA
 AGAAATCCATAGCCGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTAT
 ATTGGATTCCAGACCCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAATCATTTTCAGA
 TAAACTCCCTTAACACCACCAACTGGAAGTCGTTCTAATGCACTGTGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001284520
- Insert Size:** 1596 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001284520.1](#), [NP_001271449.1](#)

RefSeq Size: 9264 bp

RefSeq ORF: 1596 bp

Locus ID: 12763

UniProt ID: [Q61419](#)

Cytogenetics: 13 A3.1

Gene Summary: Sialic acids are components of carbohydrate chains of glycoconjugates and are involved in cell-cell recognition and cell-pathogen interactions. Catalyzes the conversion of CMP-N-acetylneuraminic acid (CMP-Neu5Ac) into its hydroxylated derivative CMP-N-glycolylneuraminic acid (CMP-Neu5Gc), a sialic acid abundantly expressed at the surface of many cells.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region, compared to variant 3. The resulting protein (isoform b) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.