

## Product datasheet for **MC219155**

### **Cmah (NM\_001111110) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cmah (NM_001111110) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cmah
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219155 representing NM\_001111110  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGTCTCCTGTGAAGTTGCCAACCTCAAGG  
AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT  
AAAGGCATGCAAGAACCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA  
AGGTCCGTTAAATGCACAAAGCACAACCTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG  
GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA  
CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA  
TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTTGTTAATTG  
GCCCTGCTTTGCCCGAGGATGGTGGTGTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA  
AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC  
CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA  
GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG  
GTTTCATGATCTTGATGGACGGCTTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGTTCAT  
AAAATACTCAACACAGTGGACTGCACCAGACCCAAATGGGGGAAGGCTTCCCTGAGAAAAGTTGCTCTAATGA  
TGAGTGATTTTCGAGGAGGTGCATCAGGCTTCCAATGACTTTCAGTGGTGGAAAATTTACTGAGGAATG  
GAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATTAACAAGCTCAGCTGGTGAAGGACCTG  
CAGCCCCGAATCTACTGTCGGTTTGTGGTACTTTGTGGAGTCTACCCATCTGACAAGTACATTAAGG  
AAACAAACACAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGACATG  
GACCCCACGACCTGGCGCTGTCCTCGACCTTGGCAGGATGCTGAAGGACCAACAGACAGCAAGGGCATT  
GTGGAGCCTCCAGAGGGGACAAAGATTTACAAGGATTCCTGGGACTTTGGCCCGTACCTGGAGATCTTGA  
ATTCTGTGTGAGAGATGAAATCTTCTGTCAATCATCCTGGATTAAGAGTACTTCACGTGGGCTGGATT  
TAAGAATTACAACCTGGTGGTCAAGGATGATTGAAACAGATGAAGATTTTCAGCCCTTTTCTGGAGGGTAC  
GACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGAAG  
AAATCCATAGCCGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTATAT  
TGGATTCCAGACCCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAATCATTTCAGATA  
AAACTCCCTTAACACCACCAACTGGAAGTCGTTCTCAATGCACTGTGATTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001111110

**Insert Size:** 1734 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\\_001111110.2](#), [NP\\_001104580.1](#)

**RefSeq Size:** 9747 bp

**RefSeq ORF:** 1734 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 (2) differs in the 5' UTR compared to variant 3. Variants 1, 2, and 3 encode the same protein (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.