

## Product datasheet for **MR208522**

### **Cmah (BC055079) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cmah (BC055079) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cmah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208522 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGCTCCTGCTGAAGTTGCCAACCTCAAGG  
 AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT  
 AAAGGCATGCAAGAACCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA  
 AGGTCCGTTAAATGCACAAAGCACAACCTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG  
 GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA  
 CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA  
 TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTTGTTAATTG  
 GCCCTGCTTTGCCCGAGGATGGTGGTTGCTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA  
 AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC  
 CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA  
 GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG  
 GTTCATGATCTTGATGGACGGCTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGAGGAA  
 TGGAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATTACAAAGCTCAGCTGGTGAAGGACC  
 TGCAGCCCCGAATCTACTGTCCGTTTGTGGGTACTTTGTGGAGTCTCATCCATCTGACAAGTACATTAA  
 GGAACAAACACCAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGACA  
 TGGACCCACGACCTGGCGCTGTCTCGACCTTGGCAGGATGCTGAAGGACCAACAGACAGCAAGGGCA  
 TTGTGGAGCCTCCAGAGGGGACAAAGATTTACAAGGATTCCTGGGACTTTGGCCCGTACCTGGAGTCTT  
 GAATTCGCTGTGACAGAGATGAAATCTTCTGTCTTCTGATTCATCCTGGATTAAAGAGTACTTCACGTGGGCTGGA  
 TTTAAGAATTACAACCTGGTGGTCAGGATGATTGAAACAGATGAAGATTTAGCCCTTTTCTGGAGGGT  
 ACGACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGA  
 AGAAACCCATAGCCGGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTAT  
 ATTGGATTCCAGACCCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAACCATTTTCAGA  
 TAAACTCCCTTAACACCACCAACTGGAAGTCGTTCTAATGCACTGTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208522 protein sequence  
 Red=Cloning site Green=Tags(s)

MMDRKQTAETLLTLSPAEVANLKEGINFFRNKTTGKEYILYKEKDHLKACKNLCKHQGLFMKDIEDLDG  
 RSVKCTKHNWKLVDSTMKYINPPGSFCQDELVIEMDENGLSLVELNPPNPWSDPRSPEELAFGEVQIT  
 YLTHACMDLKLGDKRMVFDPLIGPAFARGWLLHEPPSDWLERLCKADLIYISHMHSDDL SYPTLKQLS  
 QRRPDIPIYVGDTERPVFNLDQSGVGLTNINVVPFGIQQVDKSLRFMILMDGVHPMTDCIIVEYKEE  
 WKAQFIKAERRKLLNYKAQLVKDLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNQLNLLIRKNSDVVT  
 WTPRPGAVLDLGRMLKDPTDSKIVPEPEGTKIYKDSWDFGPYLEILNSAVRDEIFCHSSWIKEYFTWAG  
 FKNYNLVVRMIETDEDFSPFPGGYDYLVDLFLSFPKERPSREHPYEETHSRVDVIRYVVKGNLLWDDL  
 YIGFQTRLLRDPDIYHHLFWNHFIKLLPLTPPNWKSFLMHCD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC055079

**ORF Size:** 1593 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:** [BC055079](#), [AAH55079](#)

**RefSeq Size:** 2995 bp

**RefSeq ORF:** 1595 bp

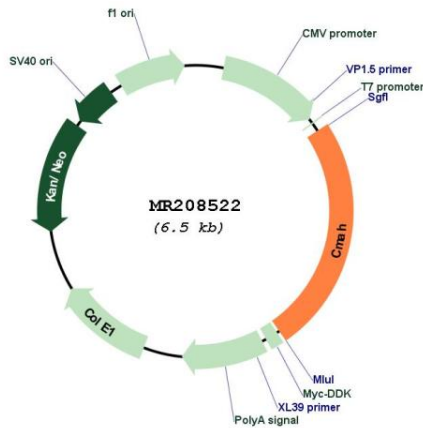
**Locus ID:** 12763

**Cytogenetics:** 13 A3.1

**MW:** 62.1 kDa

**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]

**Product images:**



Circular map for MR208522