

Product datasheet for **MG208522**

Cmah (BC055079) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmah (BC055079) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cmah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208522 representing BC055079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGCTCCTGCTGAAGTTGCCAACCTCAAGG
 AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT
 AAAGGCATGCAAGAACCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA
 AGGTCCGTTAAATGCACAAAGCACAACTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG
 GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA
 CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA
 TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTGGTTAATTG
 GCCCTGCTTTGCCCGAGGATGGTGGTGTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA
 AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC
 CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA
 GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG
 GTTCATGATCTTGATGGACGGCTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGAGGAA
 TGGAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATTACAAAGCTCAGCTGGTGAAGGACC
 TGCAGCCCCGAATCTACTGTCCGTTTGTGGGTACTTTGTGGAGTCTCATCCATCTGACAAGTACATTAA
 GGAACAAACACCAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGACA
 TGGACCCACGACCTGGCGCTGTCTCGACCTTGGCAGGATGCTGAAGGACCCACAGACAGCAAGGGCA
 TTGTGGAGCCTCCAGAGGGGACAAAGATTTACAAGGATTCCTGGGACTTTGGCCCGTACCTGGAGATCTT
 GAATTCTGCTGTACAGAGATGAAATCTTCTGTCTCATTTCATCCTGGATTAAAGAGTACTTCACGTGGGCTGGA
 TTTAAGAATTACAACCTGGTGGTCAGGATGATTGAAACAGATGAAGATTTAGCCCTTTTCTGGAGGGT
 ACGACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGA
 AGAAACCCATAGCCGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTAT
 ATTGGATTCCAGACCCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAACCATTTTCAGA
 TAAACTCCCTCTAACACCACCAACTGGAAGTCGTTCTAATGCACTGTGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

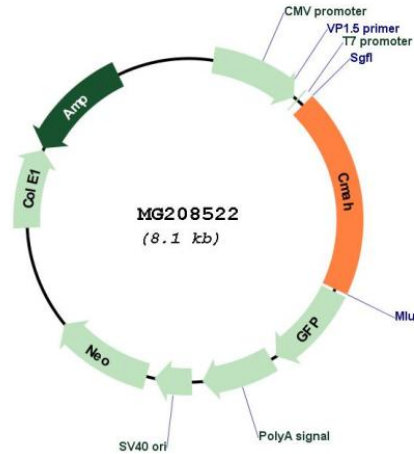
>MG208522 representing BC055079
 Red=Cloning site Green=Tags(s)

MMDRKQTAETLLTLSPAIEVANLKEGINFFRNKTTGKEYILYKEKDHLKACKNLCKHQGLFMKDIEDLDG
 RSVKCTKHNWKLVDSTMKYINPPGSFCQDELVIEMDENGLSLVELNPPNPWSDPRSPEELAFGEVQIT
 YLTHACMDLKLGDKRMVDFPWLIGPAFARGWLLHEPPSDWLERLCKADLIYISHMHSDDL SYPTLKQLS
 QRRPDIPYVGDTERPVFNLDQSGVGLTNINVVPFGIQQVQVDSLRFMILMDGVHPMDTCTIIVEYKEE
 WKAQFIKAERRKLLNYKAQLVKDLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNQLNLIIRKNSDVVT
 WTPRPGAVLDLGRMLKDPDTSKIVPEPEGTKIYKDSWDFGPYLEILNSAVRDEIFCHSSWIKEYFTWAG
 FKNYNLVVRMIETDEDFSPFPGGYDYLVDLFLSFPKERPSREHPYEETHSRVDVIRYVVKGLLWDDL
 IGFQTRLLRDPDIYHHLFWNHFIKPLTPPNWKSFLMHCD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: BC055079

ORF Size: 1595 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

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]