

Product datasheet for **MG221847**

Cmah (NM_007717) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmah (NM_007717) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cmah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221847 representing NM_007717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGTCTCCTGTGAAGTTGCCAACCTCAAGG
 AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT
 AAAGGCATGCAAGAACCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA
 AGGTCCGTTAAATGCACAAAGCACAACCTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG
 GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA
 CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA
 TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTTGTTAATTG
 GCCCTGCTTTGCCCGAGGATGGTGGTGTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA
 AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC
 CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA
 GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG
 GTTCATGATCTTGATGGACGGCTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGTTCAT
 AAAATACTCAACACAGTGGACTGCACCAGACCCAAATGGGGGAAGGCTTCTGAGAAAAGTTGCTCTAATGA
 TGAGTGATTTTCGAGGAGGTGCATCAGGCTTTCCAATGACTTTCAGTGGTGGAAAATTTACTGAGGAATG
 GAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATACAAAGCTCAGCTGGTGAAGGACCTG
 CAGCCCCGAATCTACTGTCGGTTTGTGGTACTTTGTGGAGTCTACCCATCTGACAAGTACATTAAGG
 AAACAAACACAAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGCATG
 GACCCACGACCTGGCGCTGTCCTCGACCTTGGCAGGATGCTGAAGGACCCAACAGACAGCAAGGGCATT
 GTGGAGCCTCCAGAGGGGACAAAGATTTACAAGGATTCCTGGGACTTTGGCCCGTACCTGGAGATCTTGA
 ATTCTGTGTGAGAGATGAAATCTTCTGTCAATCATCCTGGATTAAGAGTACTTCACGTGGGCTGGATT
 TAAGAATTACAACCTGGTGGTGCAGGATGATTGAAACAGATGAAGATTTTCAGCCCTTTTCTGGAGGGTAC
 GACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGAAG
 AAATCCATAGCCGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTATAT
 TGGATTCCAGACCCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAAATCATTTTCAGATA
 AAACCTCCTTAACACCACCAACTGGAAGTCGTTCTCAATGCACTGTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221847 representing NM_007717
 Red=Cloning site Green=Tags(s)

MMDRKQTAETLLTLSPAEVANLKEGINFFRNKTTGKEYILYKEKDHLKACKNLCKHQGLFMKDIEDLDG
 RSVKCTKHNWKL DVSTMKYINPPGSFCQDELVIEMDENGLSLVELNPPNPWSDPRSPEELAFGEVQIT
 YLTHACMDLKLGDKRMVFDPLIGPAFARGWLLHEPPSDWLERLCKADLIYISHMHSDDL SYPTLKQLS
 QRRPDIPIYVGDTERPVFNLDQSGVGLTNINVVPFGIQQVDKSLRFMILMDGVHPEMDCIIVEYKGH
 KILNTVDCTRPNNGRLPEKVALMMSDFAGGASGFPMTFSGGKFTTEWKAQFIKAERRKLLNYKAQLVKDL
 QPRIYCPFAGYFVESHPSDKYIKETNTKNDPNQLNLRKNSDVVTWTPRPGAVLDLGRMLKDPTDSKGI
 VEPPEGTIYKDSWDFGPYLEILNSAVRDEIFCHSSWIKEYFTWAGFKNYNLVVRMIETDEDFSPFPGGY
 DYLVDFLDLSFPKERPSREHPYEEIHSRVDVIRYVVKNGLLWDDL YIGFQTRLLRDPDIYHHLFWNHFI
 KLPLTPPNWKSFLMHCD

TRTRPLE - GFP Tag - V

Restriction Sites:

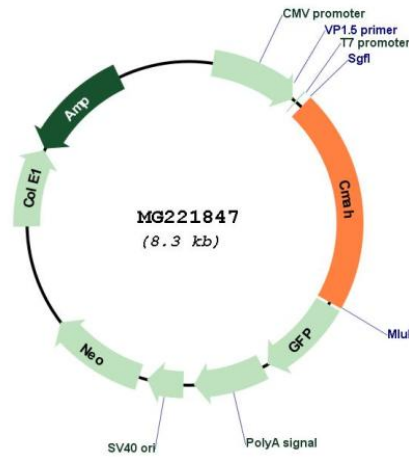
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:

NM_007717

ORF Size:	1731 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:	<ol style="list-style-type: none">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_007717.5 , NP_031743.3
RefSeq Size:	9397 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]