

Product datasheet for **MR230567**

Cmah (NM_001284519) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cmah (NM_001284519) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cmah |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>MR230567 representing NM_001284519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGACAGGAAACAGACAGCTGAGACCCTGCTGACCCTGCTCCTGCTGAAGTTGCCAACCTCAAGG
 AAGGGATCAATTTTTTCGAAATAAGACTACTGGGAAAGAGTACATTTTATACAAGGAGAAGGACCATCT
 AAAGGCATGCAAGAACCCTCTGCAAGCACCAGGGAGGCCTGTTTCATGAAAGACATCGAGGATTTAGATGGA
 AGGTCCGTTAAATGCACAAAGCACAACCTGGAAGTTAGACGTGAGCACCATGAAATATATCAACCCTCCAG
 GGAGCTTCTGTCAAGACGAGCTCGTTATTGAAATGGATGAAAACAATGGGCTTTCCCTGGTAGAACTGAA
 CCCTCCTAACCCCTGGGACTCTGATCCCAGGTCTCCTGAAGAATTAGCTTTTGGGAAAGTACAGATAACA
 TATCTCACTCATGCCTGCATGGACCTCAAGTTGGGAGACAAGCGAATGGTATTTGACCCTTGTTAATTG
 GCCCTGCTTTGCCCGAGGATGGTGGTGTACATGAGCCTCCATCTGACTGGTTGGAGAGGCTGTGCAA
 AGCAGACCTCATTATATCAGCCACATGCACTCAGACCACCTGAGCTACCCTACCCTGAAGCAGCTTTCC
 CAGAGACGACCAGACATTTCCATTTATGTTGGCGACACAGAAAGGCCTGTGTTTTGGAACCTGGATCAGA
 GTGGCGTCGGGTTAACTAACATCAACGTGGTTCATTTGGAATATGGCAACAGGTAGACAAAAGTCTGCG
 GTTCATGATCTTGATGGACGGCTTCATCCTGAGATGGACACATGCATTATCGTGGAGTACAAAAGTTCAT
 AAAATACTCAACACAGTGGACTGCACCAGACCAATGGGGGAAGGCTTCTGAGAAAAGTTGCTCTAATGA
 TGAGTGATTTTCGAGGAGGTGCATCAGGCTTTCCAATGACTTTCAGTGGTGGAAAATTTACTGAGGAATG
 GAAAGCCCAGTTCATTAAGGCTGAAAGAAGAAAGCTTCTGAATTAACAAGCTCAGCTGGTGAAGGACCTG
 CAGCCCCGAATCTACTGTCGGTTGCTGGGTACTTTGTGGAGTCTACCCATCTGACAAGTACATTAAGG
 AAACAAACACCAAAAAATGACCCAAATCAGCTCAACAATCTTATCAGGAAAACTCTGACGTGGTGACATG
 GACCCACGACCTGGCGCTGTCCTCGACCTTGGCAGGATGCTGAAGGACCAACAGACAGCAAGGGCATT
 GTGGAGCCTCCAGAGGGGACAAAGATTTACAAGGATTCCTGGGACTTTGGCCCGTACCTGGAGATCTTGA
 ATTCTGCTGTGAGAGATGAAATCTTCTGTCAATCATCCTGGATTAAGAGTACTTCACGTGGGCTGGATT
 TAAGAATTACAACCTGGTGGTCAAGGATGATTGAAACAGATGAAGATTTTCAGCCCTTTTCTGGAGGGTAC
 GACTATCTGGTGGACTTTCTAGATTTATCCTTTCCGAAAGAAAGACCCAGCCGGGAGCATCCTTATGAAG
 AAATCCATAGCCGGTGGATGTCATCAGGTACGTGGTGAAGAACGGCCTGCTGTGGGATGATCTGTATAT
 TGGATTCCAGACCGATTGCTGCGGGACCCTGATATATACCATCATCTGTTTTGGAAATCATTTTCAGATA
 AAACCTCCTTAACACCACCAACTGGAAGTCGTTCTCAATGCACTGTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230567 representing NM_001284519
 Red=Cloning site Green=Tags(s)

MMDRKQTAETLLTLSPAIEVANLKEGINFFRNKTTGKEYILYKEKDHLKACKNLCKHQGLFMKDIEDLDG
 RSVKCTKHNWKLVDSTMKYINPPGSFCQDELVIEMDENGLSLVELNPPNPWDS DPRSPEELAFGEVQIT
 YLTHACMDLKLGDKRMVFD PWLIGPAFARGWLLHEPPSDWLERLCKADLIYISHMHSDDL SYPTLKQLS
 QRRPDIPIYVGDTERPVFVNLDQSGVGLTNINVPFPGIQQVDKSLRFMILMDGVHPMDTCIIIVEYKGH
 KILNTVDCTRPNGRLPEKVALMMSDFAGGASGFPMTFSGGKFTEEWKAQFIKAERRKLLNYKAQLVKDL
 QPRIYCPFAGYFVESHPDKYIKETNTKNDPNQLNNLIRKNSDVVTWTPRPGAVLDLGRMLKDPTDSKGI
 VEPPEGTKIYKDSWDFGPYLEILNSAVRDEIFCHSSWIKEYFTWAGFKNYNLVVRMIETDEDFSPFPGGY
 DYLVDFLDL SFPKERPSREHPYEEIHSRVDIVRYVVKNGLLWDDLYIGFQTRLLRDPDIYHHLFWNHFQI
 KLPLTPPNWKSFLMHCD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

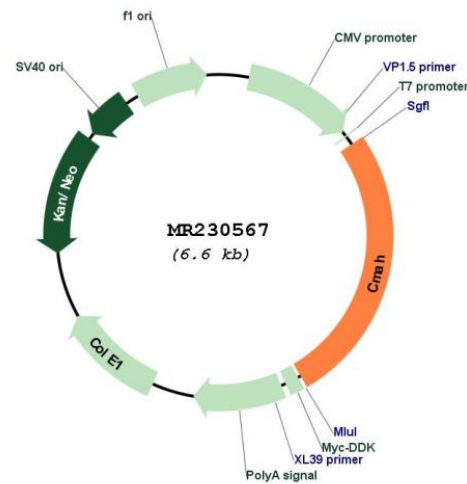
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001284519

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|-------------------------------|---|
| 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_001284519.1 , NP_001271448.1 |
| RefSeq Size: | 9909 bp |
| RefSeq ORF: | 1734 bp |
| Locus ID: | 12763 |
| UniProt ID: | Q61419 |
| Cytogenetics: | 13 A3.1 |
| MW: | 67.4 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] |