

## Product datasheet for **MR221799**

### **Gne (NM\_001190414) Mouse Tagged ORF Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Gne (NM_001190414) Mouse Tagged ORF Clone
<b>Tag:</b>	Myc-DDK
<b>Symbol:</b>	Gne
<b>Synonyms:</b>	2310066H07Rik; DMRV; GLCNE; IBM2; NM; Uae1
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR221799 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGAAGAACGGGAACAACCGAAAGCTCCGGTTTGCCTTGCACCTGCAACCGAGCTGACTACTCCA  
 AACTGGCCCCGATCATGTTTCGGCATCAAGACAGAGCCCGGTTCTTTGAGTTGGACGTGGTGGTGCCTCGG  
 CTTCCACCTGATTGACGACTATGAAAACACATACCGCATGATTGAGCAAGATGACTTTGACATTAACACC  
 AGGCTCCACACGATTGTTAGAGGGGAAGATGAAGCGGCCATGGTAGAGTCGGTAGGCCTAGCGCTCGTGA  
 AGCTACCGGACGTCCTCAATCGCCTGAAGCCGACATCATGATTGTTACCGGAGACCGATTTGACGCCCT  
 TGCTCTGGCTACGCTCTGCTGCCTTGATGAACATCCGCATCCTTACATTGAAGGAGGCGAGGTGACGCGG  
 ACCATTGATGACTCTATCAGACACGCCATAACAAAAGTGGCTCACTACCATGTGTGCTGCACTAGAAGTG  
 CAGAGCAGCACCTGATCTCTATGTGCGAGGACCACGACCGCATCCTGTTGGCAGGCTGCCCTTCTATGA  
 CAAACTGCTCTCCGCAAGAACAAGACTATATGAGCATATTCCGGATGTGGCTAGCGGATGATGTAAAA  
 TGTAAGGATTACATCGTTGCCCTGCAGCATCCCGTGACCACTGACATTAAGCATTCCATAAAGATGTTTG  
 AGCTAACACTGGATGCCCTGATCTCGTTTAAACAAGAGGACCCTAGTTCTGTTTCCAAATATCGATGCAGG  
 CAGCAAGGAGATGGTTCGAGTGATGCGGAAGAAGGGCATCGAGCATCACCCCAATTTCCGTGCAGTCAAG  
 CACGTCCCGTTTGACCAGTTCATACAGCTGGTCCGCCACGCTGGCTGCATGATTGGGAATAGCAGCTGCG  
 GCGTGCGAGAGGTTGGCGCTTTCGGAACACCCGTGATCAACCTGGGCACAAGGCAGATAGGAAGAGAAAAC  
 CGGGGAGAATGTTCTTATGTGAGGGATGCTGACACCAAGATAAAAATTTGCAAGCACTACACCTCCAG  
 TTCGGCAAACAGTACCCTTGCTCAAAGATATATGGGGATGGGAATGCTGTTCCAAGGATTTTAAAGTTTC  
 TCAAATCCATTGACCTTCAAGAGCCACTACAGAAGAAATCTGCTTCCCCCTGTAAAGGAGAACATCTC  
 TCAAGACATTGACCACATCCTGGAAACTCTGAGTGCCTTGCTGTTGATCTTGGCGGACAAACCTGAGG  
 GTGGCAATAGTTAGCATGAAGGGTGAATCGTTAAGAAGTACACTCAGTTCAACCCTAAAACCTATGAAG  
 AAAGGATTAGTTTAACTCCTGCAGATGTGTGGAAGCTGCCGCGGAAGCTGTGAAACTCAATTGCAGAAT  
 TCTGGGAGTAGGCATCTCCACAGGTGGCCGCGTGAATCCCAGGAAGGAGTTGTGCTGCATTCAACCAAG  
 CTGATCCAGGAATGAACTCCGTGGACCTCAGGACACCCCTCTCCGACACCCTGCATCTCCCGTGTGGG  
 TGGACAATGACGGCAACTGTGCCCCATGGCAGAGAGGAAGTTCGGCCAAGGAAAAGGACAGGAGAACTT  
 CGTGACGCTCATACGGGACAGGGATCGGTGGGGGATCATCCACCAGCAGAACTGATCCACGGCAGC  
 TCCTTCTGCGCGCGGAGCTCGGCCATCTCGTGGTGTCCCTGGACGGTCTGACTGCTCCTGTGGAAGCC  
 ATGGGTGCATCGAAGCGTACGCCTCTGGAATGGCCTTGCAGAGGGAAGCAAGAAACTCCATGATGAGGA  
 CCTGCTCTTGGTGAAGGGATGTCAGTACCAAAAAGACGAAGCTGTGGGTGCCCTCCATCTCATCCAGGCT  
 GCCAAGCTGGGCAACGTGAAGGCCCAGAGCATCTTACGAACAGCTGGAAGTCTTTGGGACTTGGGGTTG  
 TGAACATCCTCCACACTATGAATCCTTCCCTGGTATCCTGTCTGGAGTCTGGCCAGTCACTACATCCA  
 CATCGTGAAGGACGTATCCGCCAGCAAGCCTTGTCTCCGTGCAGGATGTGGACGTGGTGGTCTCAGAC  
 TTGGTGGACCCGGCCCTGCTTGGCGCAGCCAGCATGGTTCTGGACTACACAACCGCGCAGGATCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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\\_001190414.2](#)

**RefSeq Size:** 2818 bp

**RefSeq ORF:** 2169 bp

**Locus ID:** 50798

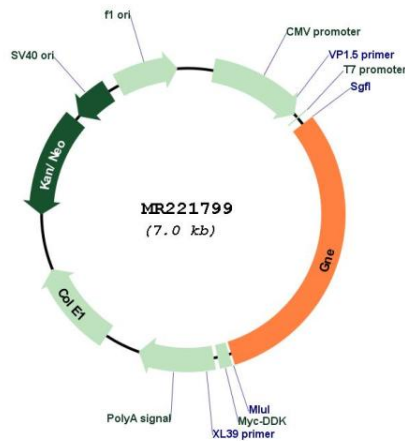
**UniProt ID:** [Q91WG8](#)

**Cytogenetics:** 4 B1

**MW:** 79.2 kDa

**Gene Summary:** Regulates and initiates biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. Required for normal sialylation in hematopoietic cells (By similarity). Sialylation is implicated in cell adhesion, signal transduction, tumorigenicity and metastatic behavior of malignant cells. Plays an essential role in early development.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221799