

Product datasheet for **MC205887**

Gne (NM_015828) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gne (NM_015828) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gne
Synonyms:	2310066H07Rik; DMRV; GLCNE; IBM2; NM; Uae1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC051254
 GCTAAACCAGAGGCCAGACGGCAGCTCAGGAGTCCGACCACACCTCAGGAAACAGCTGTGCCACAGGATG
 GAAACACACGCGCATCTCCACAGGGAGCAGAGCTACGCAGGACCTCATGAACTCTATTTTAAAGAACTCT
 CAAGTAAAAAGAAGCAAGTCATGGAGAAGAACGGGAACAACCGAAAGCTCCGGGTTTGCCTTGCACCTG
 CAACCGAGCTGACTACTCCAACTGGCCCCGATCATGTTCCGCATCAAGACAGAGCCCGCTTCTTTGAG
 TTGGACGTGGTGGTGTCTGGCTCCCACCTGATTGACGACTATGAAACACATACCCGATGATTGAGCAAG
 ATGACTTTGACATTAACACCAGGCTCCACACGATTGTTAGAGGGGAAGATGAAGCGGCCATGGTAGAGTC
 GGTAGGCCTAGCCCTCGTGAAGCTACCGGACCTCCTCAATCGCCTGAAGCCCGACATCATGATTGTTAC
 GGAGACCGATTTGACGCCCTTGCTCTGGCTACGCTGCTGCCTTATGAACATCCGCATCCTTCACATTG
 AAGGAGGCGAGGTGAGCGGGACCATTGATGACTCTATCAGACACGCCATAACAAAAGTGGCTCACTACCA
 TGTGTGCTGCACTAGAAGTGCAGAGCAGCACCTGATCTCTATGTGCGAGGACCACGACCGCATCCTGTTG
 GCAGGCTGCCCTTCTATGACAAAAGTCTCCGCAAGAACAAGACTATATGAGCATCATTCCGATG
 GGCTAGGCGATGATGAAAATGTAAGGATTACATCGTTGCCCTGCAGCATCCCGTACCCTGACATTAA
 GCATTCCATAAAGATGTTTGGAGTAACACTGGATGCCCTGATCTCGTTTAAACAAGAGGACCTAGTTCTG
 TTTCCAAATATCGATGCAGGCAGCAAGGAGATGGTTTCGAGTGCAGGGAAGGCGCATCGAGCATCACC
 CCAATTTCCGTGCACTAAGCAGCTCCCGTTTGCAGGTTTATACAGCTGGTCCGCCACCGCTGGCTGCAT
 GATTGGGAATAGCAGCTGCGGCGTGCAGAGGTTGGCGCTTTCGGAACACCCGATCAACCTGGGCACA
 AGGCAGATAGGAAGAGAAACCGGGGAGAATGTTCTTATGTCAGGGATGCTGACACCCAAGATAAAATAT
 TGCAAGCACTACACCTCCAGTTCGGCAACAGTACCCTTGTCAAAGATATATGGGGATGGGAATGCTGT
 TCCAAGGATTTTAAAGTTTCTCAAATCCATTGACCTTCAAGAGCCACTACAGAAGAAATTTGCTTCCCC
 CCTGTAAGGAGAAACATCTCAAGACATTGACCACATCTGGAACTCTGAGTGCCTTGGCTGTTGATC
 TTGGCGGGACAAACCTGAGGGTGGCAATAGTTAGCATGAAGGGTAAATCGTTAAGAAGTACACTCAGTT
 CAACCTAAAACCTATGAAGAAAGGATTAGTTAATCTGCAGATGTGTGTGGAAGCTGCCGCGGAAGCT
 GTGAAACTCAATTGCAGAATTCTGGGAGTAGGCATCTCCACAGGTGGCCGCTGAATCCCCAGGAAGGAG
 TTGTGCTGCATTAACCAAGCTGATCCAGGAATGGAACCTCCGTGGACCTCAGGACACCCCTCCTCCGACAC
 CCTGCATCTCCCGTGTGGTGGACAATGACGGCAACTGTGCCGCATGGCAGAGAGGAAGTTCCGGCAA
 GGAAAAGGACAGGAGAATTCGTGACGCTCATCACGGGACAGGGATCGGTGGGGGATCATCCACCAGC
 ACGAACTGATCCACGGCAGCTCCTTCTGCGCGGCGGAGCTCGGCCATCTCGTGGTGTCCCTGGACGGTCC
 TGACTGCTCCTGTGGAAGCCATGGTGCATCGAAGCGTACGCCTCTGGAATGGCCTTGCAGAGGGAAGCA
 AAGAACTCCATGATGAGGACCTGCTCTTGGTGAAGGGATGTCAGTACCAAAAGACGAAGCTGTGGGTG
 CCCTCCATCTCATCCAGGCTGCCAAGCTGGGCAACGTGAAGGCCAGAGCATCTTACGAACAGCTGGAAC
 TGCTTTGGGACTTGGGGTTGTGAACATCTCCACACTATGAATCCTTCCCTGGTATCCTGTCTGGAGTC
 CTGGCCAGTCACTACATCCACATCGTGAAGGACGTCATCCGCCAGCAAGCCTTGTCTCCGTGCAGGATG
 TGGACGTGGTGGTCTCAGACTTGGTGGACCCGGCCCTGCTTGGCGCAGCCAGCATGGTTCTGGACTACAC
 AACCGCGAGGATCCACTAGGTCTCCCGGAACGGACACGGACAGAGACTCGGGAGCTGCTTAGAGTGGAA
 CCATGCTCTTCTAGATCAGTGTCTTCTGCGAAGGCAAAATTTGGGGGAGGGCTGCTGAGACAGCTCAGTGG
 TTAAGAGCCTGCCCTGCTCCTGCCAGTCCCAGCACCCATGTCAGGCAGCTCAGTGCCTGGAAGCCAAG
 CTCCAGGGGACCAATGCCTCTCTGCCGGGGCAGCTGCACTCAGATGTACATACCCCTCTCCACACACA
 TACAAATAAAGCTTATTTTTCAAAGGCCAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_015828
- Insert Size:** 2169 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC051254](#), [AAH51254](#)

RefSeq Size: 2654 bp

RefSeq ORF: 2169 bp

Locus ID: 50798

UniProt ID: [Q91WG8](#)

Cytogenetics: 4 B1

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] Transcript Variant: This variant (2) encodes the longest protein (isoform 2). This variant has been called GNE2 in the scientific literature. CCDS Note: The coding region has been updated to extend the N-terminus to one that is supported by available conservation data. The use of an alternative upstream start codon, would result in a protein that is 31 aa longer at the N-terminal.