

## Product datasheet for **SC323195**

### GLCNE (GNE) (NM\_001128227) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLCNE (GNE) (NM_001128227) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNE
Synonyms:	DMRV; GLCNE; IBM2; NM; Uae1
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001128227, the custom clone sequence may differ by one or more nucleotides

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ATGGAAACCTATGGTTATCTGCAGAGGGAGTCATGCTTTCAAGGACCTCATGAACTCTAT
TTAAGAACCTCTCAAAACGAAACAAGCAAATCATGGAGAAGAATGAAAATAACCGAAAG
CTGCGGGTTTGTGTTGCTACTTGAACCGTGCAGATTATTCTAACTTGCCCGATCATG
TTTGGCATTAAAACCGAACCTGAGTTCTTTGAACTTGATGTTGTGGTACTTGGCTCTCAC
CTGATAGATGACTATGGAATACATATCGAATGATTGAACAAGATGACTTTGACATTAAC
ACCAGGCTACACACAATTGTGAGGGGAGAAGATGAGGCAGCCATGGTGGAGTCAGTAGGC
CTGGCCCTAGTGAAGCTGCCAGATGTCCTTAATCGCCTGAAGCCTGATATCATGATTGTT
CATGGAGACAGGTTTGTATGCCCTGGCTCTGGCCACATCTGCTGCCTTGATGAACATCCGA
ATCCTTCACATTGAAGGTGGGAAGTCAGTGGGACCATTGATGACTCTATCAGACATGCC
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CTGTTTCAAATATTGACGCAGGGAGCAAAGAGATGGTTCGAGTATGCGGAAGAAGGGC
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CCTCCTGTGAAGGAGAATATCTCTCAAGATATTGACCATATTCTTGAAACTCTAAGTGCC
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CTCCCTGTGTGGGTAGACAATGATGGCAACTGTGCTGCCCTGGCGAAAGGAAATTTGGC
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ATTATCCATCAGCATGAATTGATCCACGGAAGCTCCTTCTGTGCTGCAGAACTGGCCAC
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TTGGTGGAAAGGGATGTCAGTGCCAAAAGATGAGGCTGTGGGTGCGCTCCATCTCATCCAA
GCTGCGAAACTTGGCAATGCGAAGGCCAGAGCATCCTAAGAACAGCTGGAACAGCTTTG
GGTCTTGGGGTTGTGAACATCCTCCATACCATGAATCCCTCCCTTGTGATCCTCTCCGGA
GTCCTGGCCAGTCACTATATCCACATTGTCAAAGACGTCATTTCGCCAGCAGGCCTTGTC
TCCGTGCAGGACGTGGATGTGGTGGTTTCGGATTTGGTTGACCCCGCCCTGCTGGGTGCT
GCCAGCATGGTTCTGGACTACACAACACGCAGGATCTAC

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001128227

**Insert Size:** 5313 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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001128227.1</a> , <a href="#">NP_001121699.1</a>
<b>RefSeq Size:</b>	5313 bp
<b>RefSeq ORF:</b>	5313 bp
<b>Locus ID:</b>	10020
<b>UniProt ID:</b>	<a href="#">Q9Y223</a>
<b>Cytogenetics:</b>	9p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Metabolic pathways
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a bifunctional enzyme that initiates and regulates the biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a rate-limiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. Differential sialylation of cell surface molecules is also implicated in the tumorigenicity and metastatic behavior of malignant cells. Mutations in this gene are associated with sialuria, autosomal recessive inclusion body myopathy, and Nonaka myopathy. Alternative splicing of this gene results in transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform 1). This variant has been called GNE2 in the scientific literature. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>