

Product datasheet for **RN214376**

Gne (NM_053765) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gne (NM_053765) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gne
Synonyms:	Uae1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214376 representing NM_053765
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAGAACGGGAATAACCGGAAGCTTCGGGTTTGCCTTCCACCTGCAACCGAGCCGATTACTCCA
 AACTGGCCCCATCATGTTTCGGCATTAAAGACGGAGCCTGCGTTCTTCGAGCTCGACGTGGTGGTGCCTGGG
 CTCTCACCTGATCGACGACTACGAAACACATACCGCATGATTGAGCAGGACGACTTTGACATCAACACC
 AGGCTACACACGATTGTTAGAGGGGAAGACGAAGCAGCCATGGTAGAGTCAGTGGGCTAGCGCTAGTGA
 AGCTACCGGATGTCCTCAACCGCTGAAGCCTGACATCATGATTGTTACGGAGACCGATTTGACGCCCT
 CGCTCTGGCTACATCTGCTGCCCTGATGAACATCCGCATCCTTACATTGAAGGAGGAGAGGTGACGCGG
 ACTATTGATGACTCTATCAGACACGCCATAACAAAAGTGGCTCACTACCACGTGTCTGCACCAGGAGTG
 CAGAGCAACACCTGATCTCCATGTGTGAGGACCACGACCGCATCCTTTGGCTGGCTGCCCTTCTATGA
 CAAACTGCTCTCAGCCAAGAATAAAGACTATATGAGCATATTCCGGATGTGGCTAGTGATGATGAAAA
 TGTAAAGATTACATTGTTGCCCTGCAACACCCGGTGACCACCGACATTAAGCATTCCATAAAGATGTTCCG
 AACTGACACTGGATGCTTATCTCATTAAACAAGAGGACCCTAGTTCTGTTTCCAAATATCGATGCAGG
 CAGCAAGGAGATGGTTCGAGTGATGCGGAAGAAGGGCATCGAGCATCACCCCAATTTCCGCGCAGTCAAG
 CACGTCCCGTTTGACCAGTTCATTACAGCTGGTCCGACGCTGGCTGCATGATTGGGAATAGCAGCTGTG
 GAGTGCCTGAGGTTGGCGCCTTTGGAACCCCTGTGATCAACCTGGGCACGCGGCAGATAGGAAGAGAAA
 GGGGAGAATGTTCTTATGTCCGGATGCTGACACCAAGACAAAATTTACAAGCACTACACCTCCAG
 TTCGGTAAACAGTACCCTTGCTCAAAGATATATGGGGATGGAAATGCTGTTCCAAGGATTTAAAGTTTC
 TCAAATCCATCGACCTTCAAGAGCCACTACAGAAGAAATTCGCTTCCCTCCCGTGAAGGAGAATCTCTC
 TCAGGATATTGACCATATCCTCGAAACTCTGAGTGCCTTGGCTGTTGATCTCGGGGGACGAATCTGAGA
 GTGGCGATAGTTAGCATGAAGGGTGAAATAGTTAAGAAGTACACCCAGTCAATCCTAAAACCTATGAGG
 AAAGGATTAGTCTAATCCTGCAGATGTGTGGAAGCGGCAGCAGAAGCCGTGAAGCTCAATTGCAGAAT
 TCTGGGAGTAGGCATCTCCACAGGTGGCCGTGTGAATCCCAGGAAGGAGTTGTGCTGCACTCGACCAAG
 CTGATACAGGAGTGGAACCTGTGGACCTCAGGACACCACTCTCCGACACCCTGCATCTCCCGTGTGGG
 TGGACAACGACGGCAACTGCGCTGCCATGGCGGAGAGGAAGTTTGGCCAAGGAAAAGGACAGGAACTT
 TGTGACGCTCATCACAGGACAGGGATCGGTGGGGGAATCATCCACCAGCAGAGCTGATCCACGGCAGC
 TCCTTCTGTGCGGCAGAGCTTGGCCACCTCGTGGTGTCTCTGGATGGTCTGACTGCTCCTGTGGAAGCC
 ATGGGTGCATTGAAGCCTACGCCTTGGAAATGGCCTTGCAGAGGGAAGCAAGAAGCTCCACGACGAGGA
 CCTGCTCTTGGTGAAGGGATGTCAAGTGCACAAAAGACGAAGCTGTGGGCGCCCTCCATCTCATCAAGCC
 GCCAAGCTGGGCAACGTGAAGGCCAGAGCATCTTACGGACAGCTGGAAGTCTTTGGGACTCGGAGTTG
 TGAATATCCTCCACACTATGAATCCTTCCCTGGTGTCTGTGGAGTCTGGCTAGTCACTACATCCA
 CATTGTGAGGGACGTATCCGCCAGCAAGCCCTGTCTCCGTGCAGGATGTGGATGTAGTGGTTTCAGAC
 TTGGTTGACCCGGCCCTGCTTGGTGCGCCAGCATGGTTCTGGACTACACGACCCGAGGATCCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_053765
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:	<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:	<u>NM_053765.2</u> , <u>NP_446217.1</u>
RefSeq Size:	2843 bp
RefSeq ORF:	2169 bp
Locus ID:	114711
UniProt ID:	<u>O35826</u>
Cytogenetics:	5q22
Gene Summary:	bifunctional enzyme, catalyzes the first two steps of biosynthesis of Neu5Ac (UDP-GlcNAc 2-epimerase and ManNAc kinase), precursor of sialic acids [RGD, Feb 2006]