

Product datasheet for **RC219925**

GLE1 (NM_001499) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLE1 (NM_001499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLE1
Synonyms:	CAAHC; CAAHD; GLE1L; hGLE1; LCCS; LCCS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC219925 representing NM_001499
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCTGAGGGTCGCTGCTGGGAGACCTGAAGGCCCTACGCAGTTCGACAAAGGTCGCCTTTGCT
ACTACCGCGACTGGCTGCTGCGGCGCAGGATGTTTTAGAAGAATGTATGTCTCTCCCAAGCTATCTTC
TTATTCTGGATGGGTGGTAGAGCACGTCTACCCCATATGCAGGAGAACCAACCTCTGTCTGAGACTTCG
CCATCCTCTACGTCACTCAGCCCTAGATCAACCCTCATTTGTTCCCAAATCTCCTGACGCAAGCTCTG
CCTTTTCCCAGCCTCCCTGCAACACCAAATGGAACCAAGGCAAGATGAGTCCAGCACACAGAATC
TATGGTACTTCAGTCTCACGGGGATCAAAGTGAAGGCTGCGTCCGAATGTACGAACTGGTACACAGA
ATGAAAGAACAGAGGGCCTGAGGCTATGGCAGGAGGAGCAGGAGAGGAAGGTGCAAGCCCTCTCGGAGA
TGGCATCTGAACAACTGAAGCGTTTGATGAATGGAAGGAACTGAAGCAGCATAAAGAATCCAGGACTT
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CACAGAGCAAAGATTCTCAACCTGAAGCTGCGGGAAGCAGAGCAGCAGCGCTGAAGCAAGCAGAACAGG
AGCGGCTTCGGAAGGAAGAAGGCCAGATCCGCCTGCGGGCCCTCTATGCTCTGCAGGAGGAGATGTGCA
GCTCAGCCAGCAGCTGGATGCCTCTGAGCAGCACAAAGCCCTGCTTAAGGTCGACCTGGCTGCCTCCAG
ACCCGAGGCAACCAGCTGTGCAGCCTCATCTCAGGGATCATCCGGGCCTCTTCAGAGAGCAGCTATCCCA
CAGCAGAGAGTCAAGCTGAGGCTGAGCGAGCTCTGCGGGAATGCGGGACCTCTGATGAACTGGGGCA
GGAGATCACCAGAGCCTGCGAAGACAAGAGGAGGCAGGATGAAGAAGAGGGCCAGGTAAGCTGCAAGAG
GCACAGATGCAGCAGGGACCAGAGGCCACAAAGAGCCCCAGCTCCCAGCCAGGGCCAGGAGGGAAAC
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TTTCAAGGAGGGAATGGCTTTGGAAGACTATCAGAGGATGCTTGGTTACCAAGTAAAGGATCCAAAGT
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GGTGGCCATATGAAACCGACAGGAGATTACCCCTCATGGCTAAATCATGGATGGCGCTGGTTGGCACA
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AATGCCCTCATGAAGCAATACCAGGTTCAAGTCTGGAAGATGCTAATTCTCATCAAGAGGACTACTTTC
CCAGGTATCAGGCTTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219925 representing NM_001499
 Red=Cloning site Green=Tags(s)

MPSEGRWCWETLKALRSSDKGRCLCYRDWLLRREDVLEECMSLPKLSYSGWVVEHVLPHMQENQPLSETS
 PSSTSASALDQPSFVPKSPDASSAFSPASPATPNGTKGKDESQHTESMVLQSSRGIKVEGCVRMYELVHR
 MKGTEGLRLWQEEQERKVQALSEMASEQLKRFDEWKELKQHKFQDLREVMEKSSREALGHQEKLKAEHR
 HRAKILNLKLREAEQQRVKQAEQERLRKEEGQIRLRALYALQEMLQLSQQLDASEQHKALLKVDLAAFQ
 TRGNQLCSLISGIIIRASSESSYPTAESQAEARALREMRDLLMNLGQEITRACEDKRRQDEEEAQVKLQE
 AQMQQGPEAHKEPPAPSQGGKQNEQLQVKVQDITMQWYQQLQDASMQCVLTFEGLTNSKDSQAKKIKM
 DLQKAATIPVSIISTIAIGSKLKEIFDKIHSLLSGKPVQSGGRSVSVTLNPQGLDFVQYKLAEFVKQGEE
 EVASHHEAAFPIAVVASGIWELHPRVGDILAHLHKKCPYSVPFYPTFKEGMALEDYQRMGLGYQVKDSKV
 EQQDNFLKRMSGMIRLYAAIIQLRWYPYGNRQEIHPHGLNHGWRWLAQILNMEPLSDVTATLLDFDFLEVCG
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

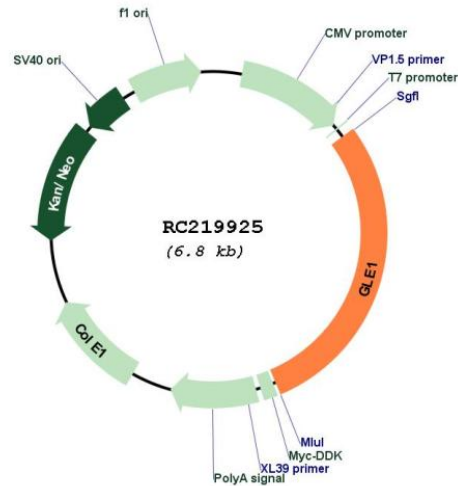
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001499

ORF Size: 1977 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:

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_001499.2](#), [NP_001490.1](#)

RefSeq Size: 2266 bp

RefSeq ORF: 1980 bp

Locus ID: 2733

UniProt ID: [Q53GS7](#)

Cytogenetics: 9q34.11

MW: 75.2 kDa

Gene Summary: This gene encodes a predicted 75-kDa polypeptide with high sequence and structure homology to yeast Gle1p, which is nuclear protein with a leucine-rich nuclear export sequence essential for poly(A)+RNA export. Inhibition of human GLE1L by microinjection of antibodies against GLE1L in HeLa cells resulted in inhibition of poly(A)+RNA export. Immunofluorescence studies show that GLE1L is localized at the nuclear pore complexes. This localization suggests that GLE1L may act at a terminal step in the export of mature RNA messages to the cytoplasm. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]