

## Product datasheet for **RC205354**

### **GLE1 (NM\_001003722) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GLE1 (NM_001003722) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLE1
Synonyms:	CAAHC; CAAHD; GLE1L; hGLE1; LCCS; LCCS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC205354 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCCGCTGAGGGTCGCTGCTGGGAGACCTTGAAGGCCCTACGCAGTTCGACAAAGGTCGCCTTTGCT  
ACTACCGCGACTGGCTGCTGCGGCGCGAGGATGTTTTAGAAGAATGTATGTCTCTCCCAAGCTATCTTC  
TTATTCTGGATGGGTGGTAGAGCACGTCTACCCCATATGCAGGAGAACCAACCTCTGTCTGAGACTTCG  
CCATCCTCTACGTCAGCTTCAGCCCTAGATCAACCCTCATTTGTTCCCAAATCTCCTGACGCAAGCTCTG  
CCTTTTCCCAGCCTCCCTGCAACACCAAATGGAACCAAGGGCAAAGATGAGTCCCAGCACACAGAATC  
TATGGTACTTCAGTCTCACGGGGATCAAAGTGAAGACTGCGTCCGAATGTACGAACTGGTACACAGA  
ATGAAAGAACAGAGGGCCTGAGGCTATGGCAGGAGGAGCAGGAGAGGAAGGTGCAAGCCCTCTCGGAGA  
TGGCATCTGAACAACTGAAGCGTTTGATGAATGGAAGGAACTGAAGCAGCATAAAGAATCCAGGACTT  
GCGGGAAGTAATGGAGAAGAGCTCCAGAGAAGCCTTGGGACCAAGAGAAGCTAAAAGCTGAGCACCGT  
CACAGAGCAAAGATTCTCAACCTGAAGCTGCGGGAAGCAGAGCAGCAGCGCTGAAGCAAGCAGAACAGG  
AGCGGCTTCGGAAGGAAGAAGGCCAGATCCGCCTGCGGGCCCTCTATGCTCTGCAGGAGGAGATGTGCA  
GCTCAGCCAGCAGCTGGATGCCTCTGAGCAGCACAAAGCCCTGCTTAAGGTCGACCTGGCTGCCTCCAG  
ACCCGAGGCAACCAGCTGTGCAGCCTCATCTCAGGGATCATCCGGGCCTCTTCAGAGAGCAGCTATCCCA  
CAGCAGAGAGTCAAGCTGAGGCTGAGCGAGCTCTGCGGGAATGCGGGACCTCCTGATGAACTGGGGCA  
GGAGATCACCAGAGCCTGCGAAGACAAGAGGAGGCAGGATGAAGAAGAGGCCAGGTAAGCTGCAAGAG  
GCACAGATGCAGCAGGGACCAGAGGCCCAAAAGAGCCCCAGCTCCCAGCCAGGGCCCAGGAGGGAAAC  
AGAATGAAGACCTCCAGGTGAAGTACAAGACATTACAATGCAGTGGTACCAGCAGCTGCAGATGCTTC  
CATGCAGTGTGTGTTGACCTTTGAGGGCCTGACCAACAGCAAGGACAGTCAGGCCAAAAAGATAAAGATG  
GACCTCCAGAAGGCTGCTACCATCCAGTGAAGCAAACTCTACCATTCAGGCTCAAAACTGAAGGAGA  
TCTTTGACAAGATCCACAGCCTGCTCTGAAAAACCTGTTCAATCTGGTGGGCGCTCTGTGCTGTAC  
ACTTAACCCACAGGGGCTGGACTTTGTTCAATACAACTGGCAGAGAAATTTGTAAACAAGGCGAGGAG  
GAAGTGGCCTCTCACCATGAAGCAGCATTCCCCATTGCAGTTGTGGCATCCGGGATCTGGGAGCTCCACC  
CCAGAGTGGGGACCTATTCTTGCTCATCTACATAAGAAGTGCCTTACTCTGTTCTTTCTATCCCAC  
TTTCAAGGAGGAATGGCTTTGGAAGACTATCAGAGGATGCTTGGTTACCAAGTAAAGGATCCAAAGT  
GAGCAGCAAGACAACCTTTCTAAAACGCATGTCAGGGATGATCCGTCTCTACGCTGCTATCATCCAGCTCC  
GGTGGCCATATGGAACCAACAGGAGATTACCCCTCATGGCTAAATCATGGATGGCGCTGGTTGGCACA  
GATCTTAAACATGGAGCCCTTGTGAGATGTGACAGCCACCCTCCTCTTTGACTTCCTGGAGGTGTGTGGG  
AATGCCCTCATGAAGCAATACCAGGTTCAAGTCTGGAAGATGCTAATTCTCATCAAGAGGACTACTTTC  
CCAGAATTGAAGCTATCACAAGCTCAGGACAGATGGGCTCCTTACACGCTCAAGCAGTTCTTGGAGAA  
ATGTTTGAACACAAGGACATTCCTGTCCCAAGGGCTTTCTGACTTCTCCTTCTGGCGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC205354 protein sequence  
Red=Cloning site Green=Tags(s)

MPSEGRCWETLKALRSSDKGRCLCYRDWLLRREDVLEECMSLPKLSYSGWVVEHVLPHMQENQPLSETS  
 PSSTSASALDQPSFVPKSPDASSAFSPASPATPNGTKGKDESQHTESMVLQSSRGIKVEDCVRMYELVHR  
 MKGTEGLRLWQEEQERKVQALSEMASEQLKRFDEWKELKQHKFQDLREVMEKSSREALGHQEKLKAEHR  
 HRAKILNLKLR AEAEQQRVKQAEQERLRKEEGQIRLRALYALQEMLQLSQQLDASEQHKALLKVDLAAFQ  
 TRGNQLCSLISGIIRASSESSYPTAESQAEERALREMRDLMNLGQEITRACEDKRRQDEEEA QVKLQE  
 AQMQQGPEAHKEPPAPSQGGKQNE DLQVKVQDITMQWYQQLQDASMQCVLTFEGLTNSKDSQAKKIKM  
 DLQKAATIPVSIISTIAGSKLKEIFDKIHSLLSGKPVQSGGRSVSVTLNPQGLDFVQYKLAEFVKQGEE  
 EVASHHEAAFP IAVVASGIWELHPRVGD LILAHLHKKCPYSVPFYPTFKEGMALEDYQRMGLGYQVKDSKV  
 EQQDNFLKRMGMIRLYAAIIQLRWPYGNQQE IHPHGLNHGWRWLAQILNMEPLSDVTATLLDFLEVCG  
 NALMKQYVQVFWKMLILIKEDYFPRIEAITSSGQMGSFIRLQKFLKCLQHKDIPVPGFLTSSFWRS

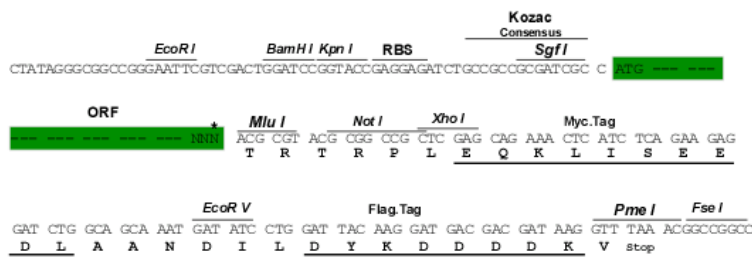
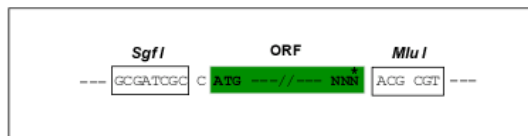
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6695\\_d05.zip](https://cdn.origene.com/chromatograms/mk6695_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001003722

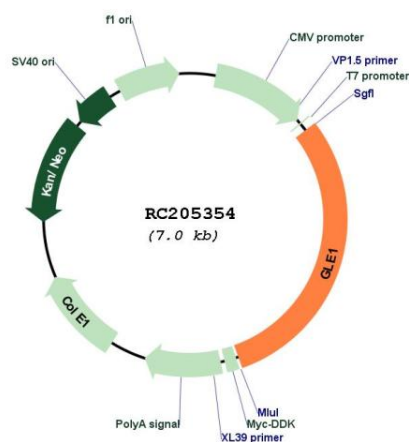
**ORF Size:** 2094 bp

**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](#)

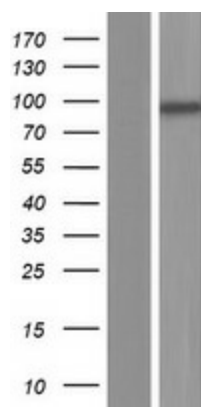
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u>NM_001003722.1, NP_001003722.1</u>
<b>RefSeq Size:</b>	3350 bp
<b>RefSeq ORF:</b>	2097 bp
<b>Locus ID:</b>	2733
<b>UniProt ID:</b>	<u>Q53GS7</u>
<b>Cytogenetics:</b>	9q34.11
<b>MW:</b>	79.9 kDa
<b>Gene Summary:</b>	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]

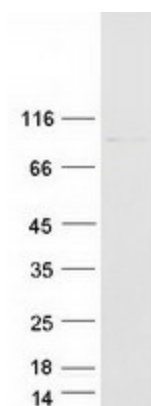
## Product images:



Circular map for RC205354



Western blot validation of overexpression lysate (Cat# [LY423996]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205354 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GLE1 protein (Cat# [TP305354]). The protein was produced from HEK293T cells transfected with GLE1 cDNA clone (Cat# RC205354) using MegaTran 2.0 (Cat# [TT210002]).