

Product datasheet for **RC229819**

Glycogenin 1 (GYG1) (NM_001184721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 1 (GYG1) (NM_001184721) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glycogenin 1
Synonyms:	GSD15; GYG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229819 representing NM_001184721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACAGATCAGGCCTTTGTGACACTAACCACAAACGATGCCTACGCCAAAGGTGCCCTGGTCTGGGAT
CATCTCTGAAACAGCACAGGACCACCAGGAGGCTGGTCGTGCTCGCCACCCTCAGGTCTCAGACTCCAT
GAGAAAAGTTTTAGAGACAGTCTTTGATGAAGTCATCATGGTAGATGTCTGGACAGTGGCGATTCTGCT
CATCTAACCTTAATGAAGAGGCCAGAGTTGGGTGTCACGCTGACAAAGCTCCACTGCTGGTCGTTACAC
AGTATTCAAATGTGTATTCATGGATGCAGATACTCTGGTCCTAGCAAATATTGATGATCTTTTTGACAG
AGAAGAATTGTCAGCAGCACCAGACCCAGGGTGGCCTGACTGCTTCAATTCGGGAGTCTTCGTTTATCAG
CCTTCAGTTGAAACATACAATCAGCTGTTGCATCTTGCTTCTGAGCAAGGTAGTTTTGATGGTGGGGACC
AAGGCATACTGAACACATTTTTAGCAGCTGGGCAACAACAGATATCAGAAAACCTGCGCTTTATTTA
TAACCTAAGCAGCATCTCTATACTCCTACCTCCCGCATTTAAAGTGAAGATGTCTCAGGAGCCATAT
CACATCTGTCCCTTGGGGAGATCCAGCTATGGCACAGCCGTTTGTATCCTCGGAAGAACGGAAGGAACG
ATGGGAACAGGGCCAGGCTGATTATATGGGAGCAGATTCCTTTGACAACATCAAGAGGAACTTGACACT
TACCTCCAGTAGAAACTGCATTTTTCTGTGAACACATCCACTTCACAAGCCTTGTTCGATACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229819 representing NM_001184721
 Red=Cloning site Green=Tags(s)

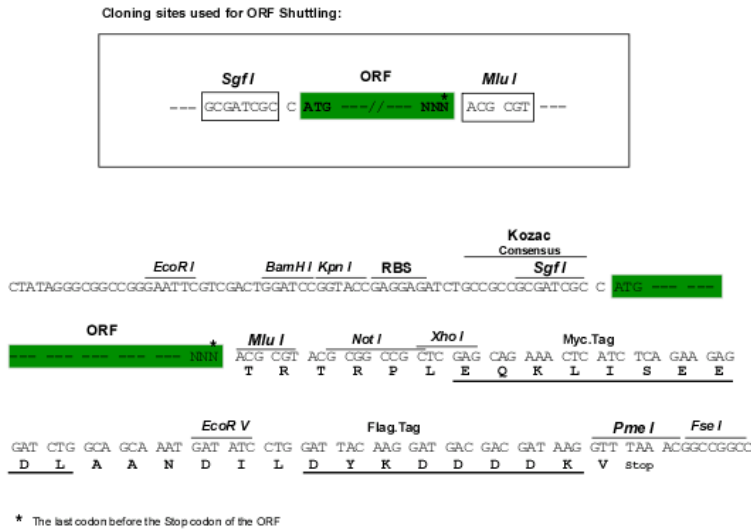
MTDQAFVLTLTNDAYAKGALVLGSSLKQHRTTRRLVVLATPQVSDSMRKVLETVFDEIVMDVLDLSDGDSA
 HLTLMKRPELGVTLTKLHCWSL TQYSKCVFMDADTLVLANIDDLFDREELSAAPDPGWPDCFNQSGVFVYQ
 PSVETYNQLLHLASEQGSFDGGDQGILNTFFSSWATTDIRKHLPIYNLSSISIYSYLPFAFKVKMSQEPY
 HICPLGRSQLWHSRL YPRKNRNDGNRARI IWEQIPLTTSRGNLTLTSSRNATAFFCEHIFTSLVSDT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184721

ORF Size: 837 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_001184721.1](#), [NP_001171650.1](#)

RefSeq ORF: 840 bp

Locus ID: 2992

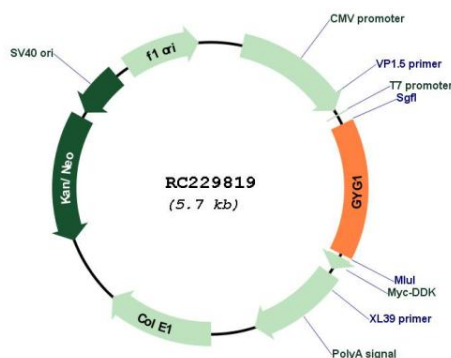
UniProt ID: [P46976](#)

Cytogenetics: 3q24

MW: 31.9 kDa

Gene Summary: This gene encodes a member of the glycogenin family. Glycogenin is a glycosyltransferase that catalyzes the formation of a short glucose polymer from uridine diphosphate glucose in an autoglucosylation reaction. This reaction is followed by elongation and branching of the polymer, catalyzed by glycogen synthase and branching enzyme, to form glycogen. This gene is expressed in muscle and other tissues. Mutations in this gene result in glycogen storage disease XV. This gene has pseudogenes on chromosomes 1, 8 and 13 respectively. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RC229819