

Product datasheet for **RG229901**

Glycogenin 1 (GYG1) (NM_001184720) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 1 (GYG1) (NM_001184720) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glycogenin 1
Synonyms:	GSD15; GYG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229901 representing NM_001184720 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAGATCAGGCCTTTGTGACACTAACCACAAACGATGCCTACGCCAAAGGTGCCCTGGTCCTGGGAT
 CATCTCTGAAACAGCACAGGACCACCAGGAGGCTGGTCGTCTGCCACCCCTCAGGTCTCAGACTCCAT
 GAGAAAAGTTTTAGAGACAGTCTTTGATGAAGTCATCATGGTAGATGTCTTGGACAGTGGCGATTCTGCT
 CATCTAACCTTAATGAAGAGGCCAGAGTTGGGTGTCACGCTGACAAAGCTCCACTGCTGGTCGCTTACAC
 AGTATTCAAAATGTGTATTCATGGATGCAGATACTCTGGTCCTAGCAAATATTGATGATCTTTTTGACAG
 AGAAGAATTGTCAGCAGCACCAGACCCAGGGTGGCCTGACTGCTTCAATCCGGAGTCTTCGTTTATCAG
 CCTTCAGTTGAAACATACAATCAGCTGTTGCATCTTGCTTCTGAGCAAGGTAGTTTTGATGGTGGGACC
 AAGGCATACTGAACACATTTTTTAGCAGCTGGGCAACAACAGATATCAGAAAACCTGCCGTTTATTTA
 TAACCTAAGCAGCATCTCTATATACTCCTACCTCCCGCATTTAAAGTGTGGTGAAGTGCCAAAGTT
 GTGCATTTCTGGGACGAGTCAAACCATGGAATTATACTTATGATCCCAAAACAAAAGTGTCAAAAGTG
 AGGCCCATGATCCCAACATGACTCATCCAGAGTTTCTCATCCTGTGGTGAACATCTTTACCACCAACGT
 TTTACCTCTGCTTCAACAATTTGGCCTTGTCAAAGACACCTGCTCATATGTAATGTGGAAGATGTCTCA
 GGAGCCATATCATCTGTCCCTTGGGGAGATCCAGCTATGGCACAGCCGTTTGTATCCTCGGAAGAAC
 GGAAGGAACGATGGGAACAGGGCCAGGCTGATTATATGGGAGCAGATTTCCTTTGACAACATCAAGAGGAA
 ACTTGACACTTACCTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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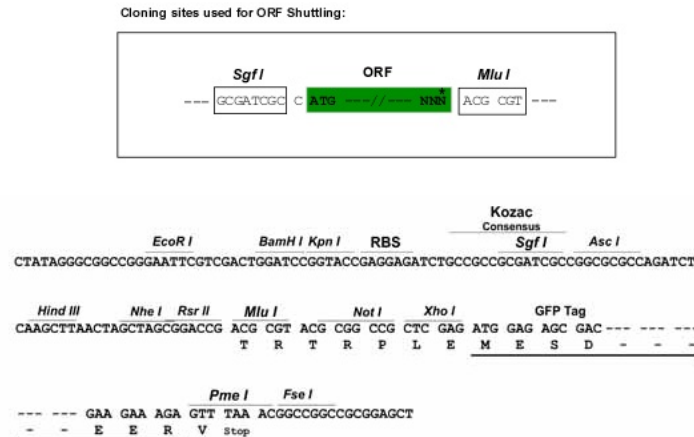
Protein Sequence: >RG229901 representing NM_001184720
 Red=Cloning site Green=Tags(s)

MTDQAFVTLTTNDAYAKGALVLGSSSLKQHRTTRRLVVLATPQVSDSMRKVLETVFDEVIMVDVLDSGDSA
 HLTLMKRPELGVTLTKLHCWSLTQYSKCVFMDADTLVLNIDDLFDRELSAAPDPGWPCFNSGVFVYQ
 PSVETYNQLLHLASEQGSFDGGDQGILNTFFSSWATTDIRKHLFPFIYNLSSISIYSYLPFAKVFASAKV
 VHFLGRVKPWNYTYDPKTSVKSEAHPNMTHPEFLILWWNIFTTNVLPLLQQFGLVKDTCSYNVNVEDVS
 GAISHLSLGEIPAMAQPFVSSEERKERWEQGQADYMGADSFDNIRKRLDTYLQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184720

ORF Size: 999 bp

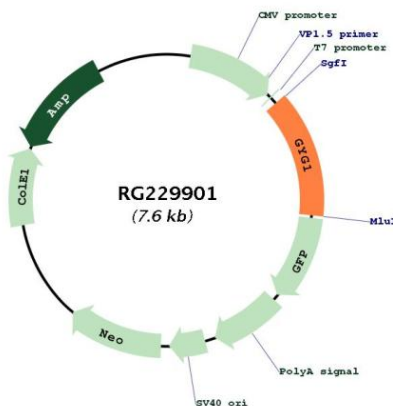
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001184720.1 , NP_001171649.1
RefSeq Size:	2000 bp
RefSeq ORF:	1002 bp
Locus ID:	2992
UniProt ID:	P46976
Cytogenetics:	3q24
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 RG229901