

Product datasheet for **RG202043**

Glycogenin 2 (GYG2) (NM_001079855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 2 (GYG2) (NM_001079855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glycogenin 2
Synonyms:	GN-2; GN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG202043 representing NM_001079855
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGGTGACTGATCAGGCTTTTGTACACTAGCCACCAATGACATCTACTGCCAGGGCGCCCTGGTCC
 TGGGGCAGTCACTGAGGAGACACAGGCTGACGAGGAAGCTGGTGGTGTGATCACTCCTCAGGTGTCCAG
 CCTGCTCAGGTCATCCTCTCGAAGGTGTTGATGAAGTCATTGAAGTGAATCTAATCGATAGTCCGAC
 TACATCCACCTGGCCTTTCTGAAGAGACCTGAGCTCGGGCTCACCTCACCAAGCTTCACTGTTGGACTC
 TCACTCACTACAGCAAGTGTGCTTCTGGATGCAGACACTCTGGTGTGCTCAATGTCGATGAGCTGTT
 TGACAGGGGAGAGTTTTCTGCGGGCCCGACCCCGGATGGCCGGATTGCTTCAATAGCGGGGTGTTGTC
 TTCCAGCCTTCTCCACACGCATAAACTCCTGCTACAGCACGCCATGGAACACGGCAGCTTTGACGGGG
 CAGACCAAGGCTTACTGAATAGTTTCTCAGGAAGTGGTCGACCACAGACATCCACAAGCACCTGCCGTT
 CATCTATAACTTGAGTAGTAACACGATGTACACTTACAGCCCTGCCTTCAAGCAATTCGGTTCAGTGCA
 AAGGTCGTCCTACTTTTGGGGTCCATGAAACCTTGGAAGTACAAGTACAATCCACAGAGTGGCTCGGTGT
 TGGAGCAAGGCTCAGTGTCCAGCAGCCAGCACCAGGCGGCATTCTTCATCTCTGGTGGACGGTCTACCA
 GAACAACGTGCTGCCCTTTATAAAAGCGTCCAAGCGGGGAAGCACGCGCTCTCTGGTCAACACTT
 TGCCGCACTGATGTGGGGGGCGGTGTGCGGATTACGCTCTGGTGTGGAGAGCCGTGTGAAAATTCAA
 CACCCAGTGCGGGCGTGCCGTGTGCAAATTCACCACTGGGTTCTAACCAGCCTGCTCAGGGCCTTCCGGA
 GCCGACCCAGATAGTGGATGAGACCTGTCCCTACCTGAAGGACGCCGTTTCAAGATATGATAGCTTGT
 CCTGAAACTGAGACTCCTGCCGTGATAACGTGTGACCCACTGTCCAGCCTTCCCTCAGCCTGCAGACT
 TCACAGAGACTGAAACCATCTTGACCCAGCAAAATAAGTCGAAAGTGTCTCATCCGAGGAAACCTTCGA
 ACCAAGCCAGGAAGTCCCTGCTGAGGCTCTCAGGACCCAGTCTGCAGGATGCACTGGAGGTGACCTG
 GCCGTCTCTGTTTCCAGATCTCCATCGAAGAGAAGGTGAAGGAATTGAGCCCGAGGAAGAGAGGAGGA
 AGTGGGAGGAAGGCCGTATCGACTACATGGGAAGGACGCGTTTGCTCGCATCCAGGAGAAGCTGGACCG
 GTTCCTGCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202043 representing NM_001079855
 Red=Cloning site Green=Tags(s)

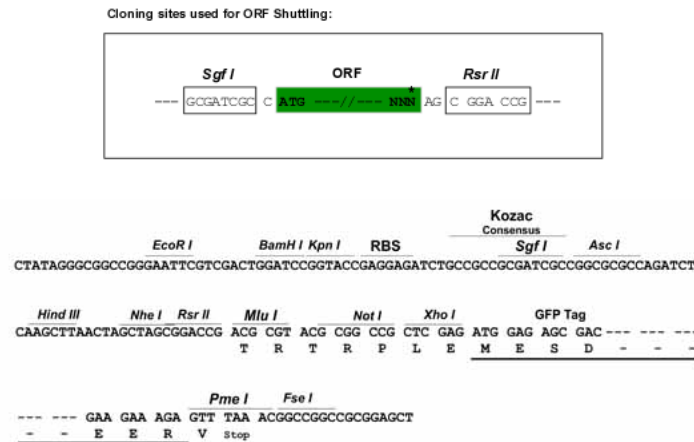
MSVTDQAFVTLATNDIYCQALVLGQSLRRHRLTRKLVLTIPQVSSLLRVILSKVFDEVIEVNLIDSAD
 YIHLAFLKRPELGLTLTKLHCWTLTHYSKCVFLDADTLVLSNVDELFDGEFSAAPDPGWPDCFNQSGV
 FQPSLHTHKLLQLHAMEHGSFDGADQGLLSFFRNWSTTDIHKHLPFIYNLSSNTMYTYSAPFKQFGSSA
 KVVHFLGSMKPWNYKYNPQSGSVLEQGSVSSSQHQAFLHLWWTYQNNVLPYKSVQAGEARASPGHTL
 CRSDVGGPCADSASGVGEPENSTPSAGVPCANSPLGSNQPAQGLPEPTQIVDETLSPLEGRRSEDMAC
 PETETPAVITCDPLSQSPQPADFTETETILQPANKVESVSSEETFEPSELPAEALRDPQLDALEVDL
 AVSVSQISIEEKVKELSPPEERRKWEGRIDYMGKDAFARIQEKLDRFLQ

SGPTRRRLE – GFP Tag – V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_001079855

ORF Size: 1410 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_001079855.1](#), [NP_001073324.1](#)

RefSeq Size: 3318 bp

RefSeq ORF: 1413 bp

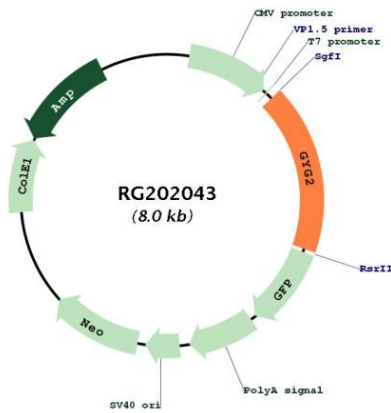
Locus ID: 8908

UniProt ID: [O15488](#)

Cytogenetics: Xp22.33

Gene Summary: This gene encodes a member of the the glycogenin family. Glycogenin is a self-glucosylating protein involved in the initiation reactions of glycogen biosynthesis. A gene on chromosome 3 encodes the muscle glycogenin and this X-linked gene encodes the glycogenin mainly present in liver; both are involved in blood glucose homeostasis. This gene has a short version on chromosome Y, which is 3' truncated and can not make a functional protein. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, May 2010]

Product images:



Circular map for RG202043