

Product datasheet for **RG230068**

Glycogenin 2 (GYG2) (NM_001184703) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 2 (GYG2) (NM_001184703) 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)
ORF Nucleotide Sequence:	>RG230068 representing NM_001184703 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGAGACAGAGTTTCACCATGGTGCCAGGCTGGTCTCGAACTCCTGAGGTCAAGCAATTCACCCA
 CCTCAGCCTCCCAAAGTGCTGGAATGACAGTGACTGATCAGGCTTTGTACACTAGCCACCAATGACAT
 CTACTGCCAGGGCGCCCTGGTCTGGGGCAGTCACTGAGGAGACACAGGCTGACGAGGAAGCTGGTGGT
 TTGATCACTCCTCAGGTGTCCAGCCTGCTCAGGGTCATCCTCTCGAAGGTGTTGATGAAGTCATTGAAG
 TGAATCTAATCGATAGTCCGACTACATCCACCTGGCCTTTCTGAAGAGACCTGAGCTCGGGCTCACCT
 CACCAAGCTTCACTGTTGGACTCTCACTCACTACAGCAAGTGTGTCTTCTGGATGCAGACACTCTGGTG
 CTGTCCAATGTCGATGAGCTGTTTGACAGGGGAGAGTTTTCTGCGGCCCGGACCCGGATGGCCGGATT
 GCTTCAATAGCGGGGTGTTTGTCTTCCAGCCTTCTCTCCACACGCATAAACTCCTGCTACAGCACGCCAT
 GGAACACGGCAGCTTTGACGGGGCAGACCAAGGCTTACTGAATAGTTTCTTCAGGAAGTGGTCGACCACA
 GACATCCACAAGCACCTGCCGTTCTATTAACCTTGAGTAGTAACACGATGTACACTTACAGCCCTGCCCT
 TCAAGCAATTCGGTTCAGTGCAAAGGTCGTCCACTTTTGGGGTCCATGAAACCTTGAAGTACAAGTA
 CAATCCACAGAGTGGCTCGGTGTTGGAGCAAGGCTCAGCGTCCAGCAGCCAGCAGGCGGCATTTCCTT
 CATCTCTGGTGGACGGTCTACCAGAACAACGTGCTGCCCTTTATAAAGCGTCCAAGCGGGGAAGCAC
 GCGGCTCTCCTGGTCACACACTTTGCCACAGTGATGTGGGGGGCCGTGTGCGGATTAGCCTCTGGTGT
 TGGAGAGCCGTGTGAAAATTCAACACCCAGTGCGGGCGTGCCGTGTGCAAATTCACCACTGGGTTCTAAC
 CAGCCTGCTCAGGGCCTTCCGAGCCGACCCAGATAGTGGATGAGACCCTGTCCCTACCTGAAGGACGCC
 GTTCAGAAGATGTCGACCTGGCCGTCTCTGTTTCCAGATCTCCATCGAAGAGAAGGTGAAGGAATTGAG
 CCCCAGGAAGAGAGGAGGAAGTGGGAGGAAGGCCGTATCGACTACATGGGGAAGGACGCGTTTGCTCGC
 ATCCAGGAGAAGCTGGACCGTTCTGCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230068 representing NM_001184703
 Red=Cloning site Green=Tags(s)

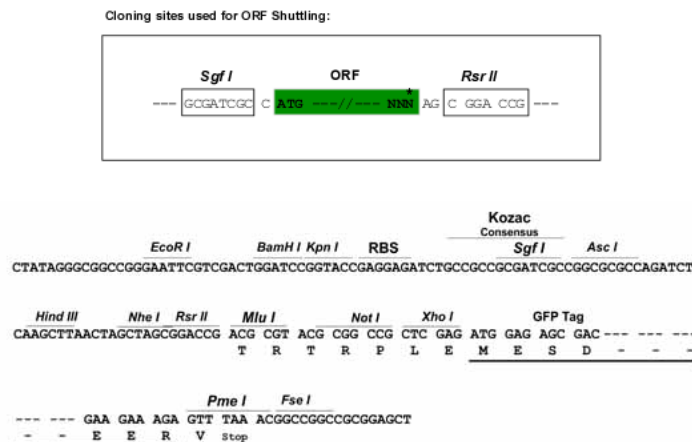
MSETEFHHGAQAGLELLRSSNSPTSASQSAGMTVTDQAFVTLATNDIYCQGALVLGQSLRRHRLTRKLVV
 LITPQVSSLLRVILSKVFDEVIEVNLIDSADYIHLAFLKRPELGLTLTKLHCWTLTHYSKCVFLDADTLV
 LSNVDELFDREGFSAAPDPGWPCDFNSGVFVFQPSLHTHKLLQLHAMEHGSFDGADQGLLSFFRNWSTT
 DIHKHLPFIYNLSSNTMYTYSAPFKQFGSSAKVVHFLGSMKPWNYKYNPQSGSVLEQGSASSSQHQAFL
 HLWWTVYQNNVLPYKSVQAGEARASPGHTLCHSDVGGPCADSASGVGEPENSTPSAGVPCANSPLGSN
 QPAQGLPEPTQIVDETLSLPEGRSEDVDLAVSVSQISIEEKVKELSPPEERRKWEGRIDYMGKDAFAR
 IQEKLDRFLQ

SGPTRRRLE – GFP Tag – V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_001184703

ORF Size: 1290 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_001184703.1](#), [NP_001171632.1](#)

RefSeq Size: 3182 bp

RefSeq ORF: 1293 bp

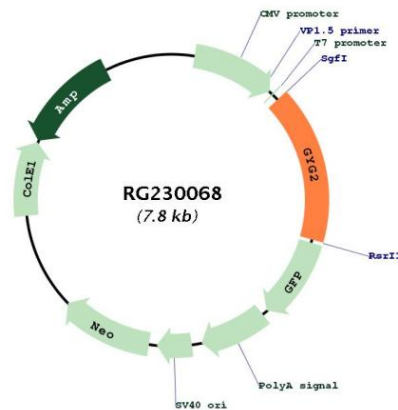
Locus ID: 8908

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 RG230068