

Product datasheet for **SC322517**

Glycogenin 2 (GYG2) (NM_001079855) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 2 (GYG2) (NM_001079855) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glycogenin 2
Synonyms:	GN-2; GN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322517
GGCAGCCAGAGCGCGGAAGAGGCCTGAAATCCACGCGGATTCCCGGAGACGGCGCCTCT
GCTCTGCGGGTTCGTGGCGAGGAAGTCCACCCACTGCTCCCGGGCAGGTCTGCAGGTC
CGCGCCCACTGCCCGCGCGCCACTGACCATGTCGGTGACTGATCAGGCTTTTGTACAC
TAGCCACCAATGACATCTACTGCCAGGGCGCCCTGGTCTGGGGCAGTCACTGAGGAGAC
ACAGGCTGACGAGGAAGCTGGTGGTGTGATCACTCCTCAGGTGTCCAGCCTGCTCAGGG
TCATCCTCTCGAAGGTGTTTCGATGAAGTCATTGAAGTGAATCTAATCGATAGTCCGACT
ACATCCACCTGGCCTTTCTGAAGAGACCTGAGCTCGGGCTCACCCCTACCAAGCTTCACT
GTTGGACTCTCACTCACTACAGCAAGTGTGTCTTCTGGATGCAGACACTCTGGTGTGT
CCAATGTCGATGAGCTGTTTGACAGGGGAGAGTTTTCTGCGGCCCGGACCCCGGATGGC
CGGATTGCTTCAATAGCGGGGTGTTGTCTTCCAGCCTTCTCTCCACACGCATAAACTCC
TGCTACAGCACGCCATGGAACACGGCAGCTTTGACGGGGCAGACCAAGGCTTACTGAATA
GTTTCTTCAGGAACTGGTCGACCACAGACATCCACAAGCACCTGCCGTTTCTATAAAT
TGAGTAGTAACACGATGTACACTTACAGCCCTGCCTTCAAGCAATTCGGTTCCAGTGCAA
AGGTGCTCCACTTTTTGGGGTCCATGAAACCTTGGAACTACAAGTACAATCCACAGAGTG
GCTCGGTGTTGGAGCAAGGCTCAGTGTCCAGCAGCCAGCACCAGGCGGCATTCTTCATC
TCTGGTGGACGGTCTACCAGAACAACGTGCTGCCCTTTATAAAAGCGTCCAAGCGGGGG
AAGCACGCGCTCTCCTGGTACACACTTTGCCGAGTGATGTGGGGGGCCGTGTGCGG
ATTCAGCCTCTGGTGTGGAGAGCCGTGAAAAATTCAACCCAGTGCGGGCGCTGCCGT
GTGCAAAATTCACCACTGGGTTCTAACCAGCCTGCTCAGGGCCTTCCGGAGCCGACCCAGA
TAGTGGATGAGACCCTGTCCCTACCTGAAGGACCGGTTTCAAGATATGATAGCTTGTGTC
CTGAAACTGAGACTCCTGCCGTGATAACGTGTGACCCACTGTCCAGCCTTCCCCTCAGC
CTGCAGACTTCACAGAGACTGAAACCATCTTGCAGCCAGCAAATAAAGTCGAAAGTGTCT
CATCCGAGGAAACCTTCGAACCAAGCCAGGAACTCCCTGCTGAGGCTCTCAGGGACCCCA
GTCTGCAGGATGCACTGGAGGTCGACCTGGCCGTCTCTGTTTCCAGATCTCCATCGAAG
AGAAGGTGAAGGAATTGAGCCCCGAGGAAGAGAGGAGGAAGTGGGAGGAAGGCCGTATCG
ACTACATGGGGAAGGACGCGTTTGTCTGCATCCAGGAGAAGCTGGACCGGTTCTGCACT



[View online »](#)

```
AATCCGGCAGCTGGTGGGCGTTGTGTAGTTAGACAATGTCCTGTTGGGTGGTCTGTT
CGGTGGAGATCTCCTCTGGTCTTTCAAAGGAAACGCTGTTGAACCTTGTGCCTCTATT
TATGCTTAATCCATTTGAGTGCCTCACACAAAAACGTAGAGTATAGAAATCCACCTTAA
AGCCCCCGCCCCAATTCTCCACCAACGCCTTCTGGGCTTTCTTCTCAGAGGTCACCTTCTA
CCCTTGAAGCTGTCGGCAAAAGCGAGCAGTAATAACATTCTAGTAGACTCTCGATGGTGG
TCTCCGCTCTTGGCCGAAGGACCTCTGAAGTACGCTGGAGCTGTGTTGTACAGGTGCTGT
GAGACCTACCCTATTCAGAAATTAACCTCACTGCAAATTTCCCTCCCATCACGAAGCTAAC
AACACTAATATACGTATTTAGCACCTCTGAGGCTTTGCCATGGAGACCCATTTCTGTAGG
GCTAAGGAAACATTTAGACGTGGTGACTGACTTTTCAATTTGGACTTGGCGAAGTGTATCTG
AGAAACACCTCGGCTGTGGTCTCTCTGCTTTAAATCCTAACAGGACTTCTAGAGCGTTG
ACAGAAATTTCTACTCGTGGACGTTGGGAAGAAAGATTGTAGGTGGCTTGGGGAATGTGGG
TGGCTTAGAGGATCTAAACCGATTCACTTCTGGTTGAGAAGCAACGAGGGCTTGCTCTA
AATCGTTTAGAGGATAACAGGATCTAGAGATGCTCTGCTTGACAACAAAAGTCAGGGT
GCAGTCGGTCCACCCTTGACTGCTCTTGGCTTGGTCTCTACCCTCACTACCTCAGTTCTC
AATAACTTAGTGAATCACTGCCCTCCTCAAAGCCATTTCCACTCAGCTCTTCCAGAGAA
TTCTCAGTTTTATGAGACGGGAACTTTATTTACAGAGAAAGCCTCATTGTCAGAAGTAT
CTTCATCAATGGGCACAATATGCTGTGTATCTCACCAGGTAGCTGTCAGGGGCCACCGA
GAGTGTGCTTAAAAATGGGCATCGTTGTAATAAAGGAGGAAAAGTGCGACTTTTGAATGT
TTGGAAGGTTTATTTCTCATGCACATTCAGGGAAAAGCAGAGAGTAAATTAGAGACGGG
ATAGGAAGGCCGTGGGAGAACTCGATCCTAGCCTGTGTCAGCTGGATGTGTTTACGTGGA
GAGGCGTGGCCACTTTTTAGGTCACCTGAAGCAGTTTAGCCTTTGGATAGAGGAACCTGC
CTGAATTTATGGCATTAGTGGTGGCATTTTTTTGTGTACAAGATGTGGGTGATGGAGGGG
GATATTTAGGTGAGTCAGGGTTGGATGGTCATCGGCTTTTCAGAGGGAGACCACGGGAAT
GTTCAGGGAAACAATGTAGCTTCTCTGAGGACCAGAATTCATGTTACAGGGCAGTGATG
AGTTGGCTTATGGAGTGAAGTCCAGTCTGGAATTCGCCCGTGCATTCTAGCCTGTATCATC
TCATTTGGACAAATGCTGGCACGTTGAAATTAATGTTAAAAACAGCAAAAAAAAAAAAA
AAAAA
```

- Restriction Sites:** Please inquire
- ACCN:** NM_001079855
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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]
Transcript Variant: This variant (1) lacks an in-frame exon in the CDS, as compared to variant 2. The resulting isoform (a) lacks an internal segment, as compared to isoform b.