

## Product datasheet for **SC122665**

### Glycogenin 2 (GYG2) (NM\_003918) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                                  |
| Product Name:             | Glycogenin 2 (GYG2) (NM_003918) Human Untagged Clone |
| Tag:                      | Tag Free   |
| Symbol:                   | Glycogenin 2   |
| Synonyms:                 | GN-2; GN2  |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u>pCMV6-XL5</u>                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                               |

**Fully Sequenced ORF:** >OriGene sequence for NM\_003918 edited  
GGCAGCCAGAGCGCGGAAGAGGCCTGAAATCCACGCGGATTCCCGGAGACGGCGCCTCT  
GCTCTGCGGGTTCGTGGCGAGGAAGTCCACCCACTGCTCCCGGGCGAGGTCTGCAGGTC  
CGCGCCCACTGCCCGCGGCCACTGACCATGTCGGTGACTGATCAGGCTTTTGTACAC  
TAGCCACCAATGACATCTACTGCCAGGGCGCCCTGGTCTGGGGCAGTCACTGAGGAGAC  
ACAGGCTGACGAGGAAGCTGGTGGTGTGATCACTCCTCAGGTGTCCAGCCTGCTCAGGG  
TCATCCTCTCGAAGGTGTTTCGATGAAGTCATTGAAGTGAATCTAATCGATAGTCCGACT  
ACATCCACCTGGCCTTTCTGAAGAGACCTGAGCTCGGGCTCACCTCACCAAGCTTCACT  
GTTGGACTCTCACTCACTACAGCAAGTGTGTCTTCTGGATGCAGACACTCTGGTGTGT  
CCAATGTCGATGAGCTGTTTGACAGGGGAGAGTTTCTGCGGCCCGGACCCCGGATGGC  
CGGATTGCTTCAATAGCGGGGTGTTGTCTTCCAGCCTTCTCTCCACACGCATAAACTCC  
TGCTACAGCACGCCATGGAACACGCGCAGCTTTGACGGGGCAGACCAAGGCTTACTGAATA  
GTTTCTTCAGGAACTGGTCGACCACAGACATCCACAAGCACCTGCCGTTTCTATAACT  
TGAGTAGTAACACGATGTACACTTACAGCCCTGCCTTCAAGCAATTTCGGTTCCAGTGCAA  
AGGTGCTCCACTTTTTGGGGTCCATGAAACCTTGGAACTACAAGTACAATCCACAGAGTG  
GCTCGGTGTTGGAGCAAGGCTCAGTGTCCAGCAGCCAGCACCAGGCGGCATTCTTCATC  
TCTGGTGGACGGTCTACCAGAACAACGTGCTGCCCTTTATAAAAGCGTCCAAGCGGGG  
AAGCACGCGCTCTCCTGGTACACACTTTGCCGAGTGATGTGGGGGGCCGTGTGCGG  
ATTCAGCCTCTGGTGTGGAGAGCCGTGAAAAATTCAACCCAGTGGCGGCGTCCGCT  
GTGCAAAATTCACCACTGGGTTCTAACCAGCCTGCTCAGGCGCTTCCGGAGCCGACCCAGA  
TAGTGGATGAGACCCTGTCCCTACCTGAAGGACCGGTTGAGAAGATATGATAGCTTGTG  
CTGAAACTGAGACTCCTGCCGTGATAACGTGTGACCCACTGTCCAGCCTTCCCCTCAGC  
CTGCAGACTTCACAGAGACTGAAACCATCTTGCAGCCAGCAAATAAAGTCGAAAGTGTCT  
CATCCGAGGAAACCTTCGAACCAAGCCAGGAACTCCCTGCTGAGGCTCTCAGGGACCCCA  
GTCTGCAGGATGCACTGGAGGTCGACCTGGCCGTCTCTGTTTCCAGATCTCCATCGAAG  
AGAAGGTGAAGGAATTGAGCCCCGAGGAAGAGAGGAGGAAGTGGGAGGAAGGCCGTATCG  
ACTACATGGGGAAGGACGCGTTTCTCGCATCCAGGAGAAGCTGGACCGGTTCTGCACT



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AATCCGGCAGCTGGTGGGCGTTGTGTAGTTAGACAATGTCCTGTTGGGTGGTCTGTT  
 CGGTGGAGATCTCCTCTGGTCTTTCAAAGGAAACGCTGTTGAACCTTGTGCCTCTATT  
 TATGCTTAATCCATTTGAGTGCCTCACACAAAAACGTAGAGTATAGAAATCCACCTTAA  
 AGCCCCCTGCCCCAATTCTCCACCAACGCCTTCTGGGCTTTCTTTCAGAGGTCACCTTA  
 CCCTTGAAGCTGTCGGCAAAAGCGAGCAGTAATAACATTCTAGTAGACTCTCGATGGTGG  
 TCTCCGCTCTTGGCCGAAGGACCTCTGAAGTACGCTGGAGCTGTGTTGTACAGGTGCTGT  
 GAGACTACCCCTATTCAGAATTAACCTCACTGCAAATTTCTCCATCACGAAGCTAAC  
 AACACTAATATACGTATTTAGCACCTCTGAGGCTTTGCCATGGAGACCCATTTCTGTAGG  
 GCTAAGGAAACATTTAGACGTGGTGACTGACTTTTATTTGGACTTGGCGAAGTGTATCTG  
 AGAAACACCTCGGCTGTGGTCTCTCTGCTTTAAATCCTAACAGGACTTCTAGAGCGTTG  
 ACAGAAATTTACTCGTGGACGTTGGGAAGAAAGATTGTAGGTGGCTTGGGAATGTGGG  
 TGGCTTAGAGGATCTAAACCGATTCACTTCTGGTTGAGAAGCAACGAGGGCTTGTCTTA  
 AATCGTTTAGAGGATAACAGGATCTAGAGATGCTCTCTGCTTGACAACAAAAGTCAGGGT  
 GCAGTCGGTCCACCTTGACTGCTCTTGGCTTGGTCTCTACCCTCACTACCTCAGTTCTC  
 AATAACTTAGTGAATCACTGCCCTCTCAAAGCCATTTCACTCAGCTCTTTCAGAGAA  
 TTCTCAGTTTTATGAGACGGGAACTTTATTTACAGAGAAAGCCTCATTGTCAGAAGTAT  
 CTTCAATCAATGGGCACAATATGCTGTGTATCTCACCAGGTAGCTGTGAGGGCCACCGA  
 GAGTGTGCTTAAAAATGGGCATCGTTGTAATAAAGGAGGAAAAGTGCAGCTTTTGAATGT  
 TTGGAAGGTTTATTTCTCATGCACATTCAGGGAAAAGCAGAGAGTAAATTAGAGACGGG  
 ATAGGAAGGCCGTGGGAGAACTCGATCCTAGCCTGTGTCAGCTGGATGTGTTTACGTGGA  
 GAGGCGTGGCCACTTTTTAGGTCACCTGAAGCAGTTTACCTTTGGATAGAGGAACCTGC  
 CTGAATTTATGGCATTAGTGGTGGCATTTTTTTGTGTACAAGATGTTGGTGTGGAGGGG  
 CTGTTTTTCCGTGTGGGTGGTAAATAATCGTCAGTCTCGGAGGGCAGTGTCTGATAG  
 GATATTTCAAGGTGAGTCAGGGTTGGATGGTTCATCGGCTTTTCAGAGGGAGACCACGGGAAT  
 GTTCAGGGAAACAATGTGAGCTTCTCTGAGGACCAGAATTCATGTTACAGGGCAGTGATG  
 AGTTGGCTTATGGAGTGAAGTCCAGTCTGGAATTCGCCCGTGCATTCTAGCCTGTATCATC  
 TCATTTGGACAAATGCTGGCACGTTGAAATTAATGTTAAAAACAGCAAAAAAAAAAAAA  
 AAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003918 unedited  
 GGCCAGTTCAGATTTGTATACGACTCATATAGGCGGCCGCGNATTCANATCTGGTACCGG  
 TCCGGAATTTCCGGGATATCGTCGACCCACGCGTCCGGGCAGCCAGAGCGCGGAAGAGGC  
 CTGGAATCCACGCGGATTCCCGGAGACGGCGCCTCTGCTCTGCGGGTTCGTGGCGAGGA  
 AGTCCACCCACTGCTCCCGGGCGCAGGTCTGCAGGTCCGCGCCACTGCCCGGGCGCCA  
 CTGACCATGTCCGGTACTGATCAGGCTTTTGTCACTAGCCACCAATGACATCTACTGC  
 CAGGGCGCCCTGGTCTGGGGCAGTCACTGAGGAGACACAGGCTGACGAGGAAGCTGGT  
 GTGTTGATCACTCCTCAGGTGTCCAGCCTGCTCAGGGTCATCCTCTCGAAGGTGTTGAT  
 GAAGTCATTGAAGTGAATCTAATCGATAGTGCCGACTACATCCACCTGGCCTTTCTGAAG  
 AGACCTGAGCTCGGGCTCACCTCACCAAGCTTCACTGTTGGACTCTCACTCACTACAGC  
 AAGTGTGTCTTCCGGATGCAGACACTCTGGTGTGTCCAATGTGATGAGCTGTTTGAC  
 AGGGGAGAGTTTTCTGCGGCCCGGACCCGGATGGCCGGATTGCTTCAATAGCGGGGTG  
 TTTGTCTTCCAGCCTTCTCTCCACACGCATAAACTCCTGTACAGCACGCCATGGAACAC  
 GGCAGCTTTGACGGGGCAGACCAAGGCTTACTGAATAGTTTCTCAGGAAGTGGTCGACC  
 ACAGACATCCACAAGCACCTGCCGTTTCACTATAAATTGAGTAGTAACACGATGTACACT  
 TACAGCCCTGCCCTTTCAGCATTTCGGTTCAGTGCANAGGTCGTCCTACTTTTTGGGGTCCC  
 ATGAACCTTGAACT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_003918

**Insert Size:**

3185 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_003918.1</a> , <a href="#">NP_003909.1</a>   |
| <b>RefSeq Size:</b>           | 3267 bp   |
| <b>RefSeq ORF:</b>            | 1506 bp   |
| <b>Locus ID:</b>              | 8908  |
| <b>UniProt ID:</b>            | <a href="#">O15488</a>  |
| <b>Cytogenetics:</b>          | Xp22.33   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (2) encodes the longest isoform (b, also known as alpha).</p> |