

Product datasheet for **SC328706**

Glycogenin 2 (GYG2) (NM_001184703) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycogenin 2 (GYG2) (NM_001184703) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glycogenin 2
Synonyms:	GN-2; GN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328706 representing NM_001184703. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCGGAGACAGAGTTTACCATTGGTCCCGAGGCTGGTCTCGAACTCCTGAGGTCAAGCAATTCACCC
ACCTCAGCCTCCCAAAGTCTGGAATGACAGTACTGATCAGGCTTTTGTACACTAGCCACCAATGAC
ATCTACTGCCAGGGCGCCCTGGTCTGGGGCAGTCACTGAGGAGACACAGGCTGACGAGGAAGCTGGTG
GTGTTGATCACTCCTCAGGTGTCCAGCCTGCTCAGGGTCATCCTCTCGAAGGTGTTTCGATGAAGTCATT
GAAGTGAATCTAATCGATAGTCCGACTACATCCACCTGGCCTTTCTGAAGAGACCTGAGCTCGGGCTC
ACCCTCACCAAGCTTCACTGTTGGACTCTCACTACTACAGCAAGTGTGCTTTCCTGGATGCAGACT
CTGGTGTGTCCAATGTCGATGAGCTGTTTGACAGGGGAGAGTTTCTGCGGCCCGGACCCCGGATGG
CCGGATTGCTTCAATAGCGGGGTGTTTGTCTTCCAGCCTTCTCTCCACACGCATAAACTCCTGCTACAG
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CCTGTTGTTCTAACCAGCCTGCTCAGGGCCTTCCGGAGCCGACCCAGATAGTGGATGAGACCCTGTCC
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AAGGACCGTCTTCTCGCATCCAGGAGAAGCTGGACCGTTCCTGCAGTAA
AGCGGACCGACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001184703
Insert Size:	1293 bp
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:	<ol style="list-style-type: none">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:	<u>NM_001184703.1</u>
RefSeq Size:	3182 bp
RefSeq ORF:	1293 bp
Locus ID:	8908
UniProt ID:	<u>O15488</u>
Cytogenetics:	Xp22.33
MW:	47.5 kDa

Gene Summary:

This gene encodes a member of the the glycogenin family. Glycogenin is a self-glycosylating 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 (4) lacks two consecutive in-frame exons in the 3' CDS, as compared to variant 2. The resulting isoform (d) lacks an internal segment in the C-terminal region, as compared to isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.