

## Product datasheet for SC118832

### GYPB (NM\_002100) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GYPB (NM\_002100) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GYPB  
**Synonyms:** CD235b; GPB; GYP; GYPA; MNS; PAS-3; SS  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_002100 edited  
 ATGTATGGAAAAATAATCTTTGTATTACTATTGTCAGAAATTGTGAGCATATCAGCATT  
 AGTACCACTGAGGTGGCAATGCACACTTCAACCTCTTCTTCAGTCACAAAGAGTTACATC  
 TCATCACAGACAAATGGAGAAACGGGACAACCTTGCCATCGTTTCACTGTACCAGCTCCT  
 GTAGTGATAAATACTCATTATTTTGTGTGTGATGGCTGGTATTATTGGAACGATCCTCTTA  
 ATTTCTTACACTATTCGCCGACTGATAAAGGCATGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002100 unedited  
 GGAATTTGTAATACGACTCACTATAGGGCGGCACGCGAATTCGCACGAGCAGGAACCAGC  
 TCATGATCTCAGGATGTATGAGAAAAATAATCTTTGTATTACTATTGTCAGAAATTGTGA  
 GCATATCAGCATTAAAGTACCACTGAGGTGGCAATGCACACTTCAACCTCTTCTTCAGTCA  
 CAAAGAGTTACATCTCATCACAGACAAATGGAGAAACGGGACAACCTTGCCATCGTTTCA  
 CTGTACCAGCTCCTGTAGTGATAAATACTCATTATTTTGTGTGTGATGGCTGGTATTATTG  
 GAACGATCCTCTAATTTCTTACACTATTCGCCGACTGATAAAGGCATGAGGATGTGGCC  
 TGCATGCTGCCTGATCTTGCTAGAACCGGCTGCACCTGCTTCTTGTTTATGCAA  
 CTGGCTGCACCTGCTATTCCTTTGCTTATGCCCTACCCCTGGCTATCCTAATCCCTGT  
 TCTCCTGCCTCACTATTACTGTATTCTCTACTTCTAAATAAAAAATAAAACAAAAACAAA  
 CCGTAAAAAATAAACTCGACTCTAGATTGCGGCCGGTGCATAGCTGTTTC  
 CTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTNCCCAGTGCCTCTCCTGGCCCTGAA  
 GTTGCCACTCCAGTGCCACCAGCCTTGTCTATTAATAAAGTTGCATCATTTTGTCT  
 GACTAGGTGTCCTTCTATAATATATGGGGTGGAGGGGGTGGTATGGAGCAGGGGCAAGT  
 TTGGAAAAACCTGTAGGCTGCGGGTCTTTGGGACCCAGCTGGATGCATGGCNCATCT  
 GGCTACTGCATCTCGCTCCGGGTGAGGATTTCTGCTACCCCGAGTTGTGGATTCAGCC  
 TGCTGACAGCTCACTATTTGGTTTTAGAAAACGGGTTACATATGGCAGCTGGCTCACTCT  
 ATTTAGGGACACCACCTGCTC



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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002100 unedited</p> <pre>GGTTACTATGNAACCGCGGCCGCAATCTAGNGATCAGTTTTTTTTTTTTTTTTTTTAAACGG TTTGTATTTTGTTTTATTTTATTTAGAAAGTAGAGAATACAGTAATAGTGAGGCAGGAGA ACAGGGAATTAGGATAGCCAGGGGTAGGGGCATAAGCAAAGGAATAGCAGGTGCAGCCAG TTTGCATAAACAAGAGAACAGCAGGTGCAGCCGTTCTAGGCAAGATCAGGCAGCATGCA GGCCACATCCTCATGCCTTTATCAGTCGGCGAATAGTGTAAAGAAATTAAGAGGATCGTTC CAATAATACCAGCCATCACACAAAAAATAGTATTATCACTACAGGAGCTGGTACAG TGAACGATGGACAAGTTGTCCCGTTTCTCCATTTGTCTGTGATGAGATGTAACCTTTTG TGAAGTGAAGAAGAGGTTGAAGTGTGCATTGCCACCTCAGTGACTTAATGCTGATATGC TCACAATTTCTGACAATAGTAATACAAAGATTATTTTTCCATACATCCTGAGATCATGAG CTGGGTCCTGCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAAATCT GACGGTTCCTAAACGAGCTCTGCTTATATAGNACCTCCACCGTACACGCCTAACCGCC ATTTGCGTCAACGGGGCGGGGTTATTACAACATTTTGGGAAAGTCCCGTTGATTTGGG GCCCAACAAAATCCCCTTGACGTCAATGGGTTGGAGACTTTGAAATCCCCTGTGGGTA AAACCGCTTCCCCGCCCATTTGGTTGTCTTGCCAAAACCCCTCACCATGGTGAAAACCG ATGAACAATCCCTTAAATGTCCGCCAATTAGGAAAATCCCCTTAGGGCATTGTACCTGG GACAATATGCCCGCGGGGCGCTTTTTTCG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002100
<b>Insert Size:</b>	600 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_002100.2</a> , <a href="#">NP_002091.1</a>
<b>RefSeq Size:</b>	526 bp
<b>RefSeq ORF:</b>	276 bp
<b>Locus ID:</b>	2994
<b>UniProt ID:</b>	<a href="#">P06028</a>
<b>Cytogenetics:</b>	4q31.21
<b>Domains:</b>	Glycophorin_A

**Gene Summary:**

Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte membrane which bear the antigenic determinants for the MN and Ss blood groups. GYPB gene consists of 5 exons and has 97% sequence homology with GYPA from the 5' UTR to the coding sequence encoding the first 45 amino acids. In addition to the M or N and S or s antigens, that commonly occur in all populations, about 40 related variant phenotypes have been identified. These variants include all the variants of the Miltenberger complex and several isoforms of Sta; also, Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U- and Mk. Most of the variants are the result of gene recombinations between GYPA and GYPB. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Transcript Variant: This variant (1) encodes the longer isoform (1).