

Product datasheet for **SC319730**

Glycophorin A (GYPA) (NM_002099) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycophorin A (GYPA) (NM_002099) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glycophorin A
Synonyms:	CD235a; GPA; GP _E rik; GPSAT; HGpMiV; HGpMiXI; HGpSta(C); MN; MNS; PAS-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002099.3
 GCAGTTGTCTTTGGTAGTTTTTGCACAACTTCAGGAACCAGCTCATGATCTCAGGATG
 TATGGAAAAATACTTTGTATTACTATTGTCAGCAATTGTGAGCATATCAGCATTAAAGT
 ACCACTGAGGTGGCAATGCACACTTCAACCTCTTCTTCAGTCACAAAGAGTTACATCTCA
 TCACAGACAAATGATACGCACAAACGGGACACATATGCAGCCACTCCTAGAGCTCATGAA
 GTTTCAGAAATTTCTGTTAGAAGTGTTCACCTCCAGAAGAGGAAACCGGAGAAAGGTA
 CAACTTGCCCATCATTTCTCTGAACCAGAGATAACACTCATTATTTTTGGGGTGATGGCT
 GGTGTTATTGGAACGATCCTCTTAATTTCTTACGGTATTCGCCGACTGATAAAGAAAAGC
 CCATCTGATGTA AACCTCTCCCCTCACCTGACACAGACGTGCCTTTAAGTTCTGTTGAA
 ATAGAAAATCCAGAGACAAGTGATCAATGAGAATCTGTTACCAAACCAATGTGAAAAG
 AACACAAAGAAGACATAAGACTTCAGTCAAGTGAAAAATTAACATGTGGACTGGACACTC
 CAATAAATTATACCTGCCTAAGTTGTACAATTCAGAATGCAATTTTCATTATAATGA
 GTTCCAGTGACTCAATGATGGGGAAAAAATCTCTGCTCATTAAATTTCAAGATAAAGA
 ACAAAATGTTTCCTGAATGCTTGTCTTTGTGTGTAGCATAATTTTGAATTGTTTGAG
 AATTCTGATCCAAAACCTTGAAGTTGAATTCATCTACGTTTGTAAATTAACCTAACCTA
 TTCTATTGTATTATAATGATGATTCTGTCAAATGAAAGGCTTGAATGCCTAGATGAAGT
 TTAGATTTTCTTCTATTGTAAACTTTTGAGTCTGGTTTCATTGTTTTAAATAAAATTAAG
 GGGACACTAAAGTCTATCATTCAATTCCTTCATTGCTGAACAGGCAAGATATAATATTA
 CATGAATGATTACTATATTTTGTTCACACTAATAAAGCTTATGCTCAGAAATGCCATACA
 CACACACAAACACACACATTTATCATTTAATGCATAAATCAACACAAAAGGTTTTCCCAT
 TAATATGAAATATTACATATATAAAGTGCCATATTTAAAATAATTTGTCTAACAGTAGA
 ACTGTGTCGGAGCACTCACTGAAGCTTGCATTCCACTGAAAGAGTTATTTGTGTAAGTAG
 AGTATCCGGAGAAGGAAAAGAAGTACGACCTTTCTTTATAACAGAACTCAACTCTAAA
 TTCAACAAGATGTGCAAACCGGACATGCAGGTGAATATTTAATAGGTTACTATAAGGTT
 CTCAATTAATTTCTTAACTGTGTCAGTCCCAGTTTCTCTTATAATAAACTTTGGAAA
 TTGCTTTAAACCTTTAAAGGAAATTTCTAGATATAGAACTAAGGACTGTGACTATACA
 GCTGCTCACTCATTGTAGTAAAACCTTAAAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_002099

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_002099.3](#), [NP_002090.2](#)

RefSeq Size: 2600 bp

RefSeq ORF: 453 bp

Locus ID: 2993

UniProt ID: [P02724](#)

Cytogenetics: 4q31.21

Domains: Glycophorin_A

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Hematopoietic cell lineage

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. 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, as well as 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. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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. Sequence Note: This RefSeq record represents the GYPA*0010101 allele.