

Product datasheet for **RG202751**

Glycophorin A (GYPA) (NM_002099) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Glycophorin A (GYPA) (NM_002099) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Glycophorin A
Synonyms: CD235a; GPA; GPERik; GPSAT; HGpMiV; HGpMiXI; HGpSta(C); MN; MNS; PAS-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202751 representing NM_002099
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGGAAAAATAATCTTTGTATTACTATTGTCAGCAATTGTGAGCATATCAGCATTAAAGTACCACTG
AGGTGGCAATGCACACTTCAACCTCTTCTTCAGTCACAAAGAGTTACATCTCATCACAGACAAATGATAC
GCACAAACGGGACACATATGCAGCCACTCCTAGAGCTCATGAAGTTTCAGAAATTTCTGTTAGAAGTGT
TACCCTCCAGAAGAGGAAACCGGAGAAAGGTACAACCTGCCATCATTTCTCTGAACCAGAGATAACAC
TCATTATTTTTGGGTGATGGCTGGTGTATTGGAACGATCCTCTTAATTTCTTACGGTATTCGCCGACT
GATAAAGAAAAGCCCATCTGATGTAAAACCTCTCCCCTCACCTGACACAGACGTGCCTTTAAGTTCTGTT
GAAATAGAAAATCCAGAGACAAGTGATCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202751 representing NM_002099
Red=Cloning site Green=Tags(s)
MYGKIIIFVLLLSAIVSISALSTTEVAMHTSTSSSVTKSYISSQTNDTHKRDTYAATPRAHEVSEISVRTV
YPPEEETGERVQLAHHFSEPEITLIIFVMAGVIGTILLISYGIRRLIKKSPSDVKPLPSPDTPVPLSSV
E IENPETS DQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_002099

ORF Size: 450 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

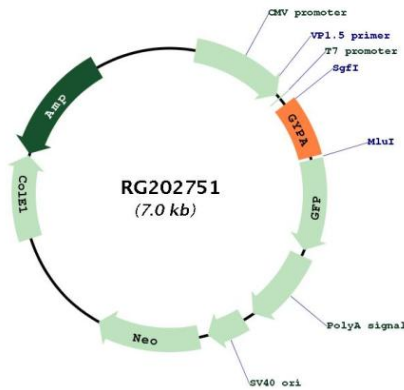
RefSeq ORF: 453 bp

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]

Product images:



Circular map for RG202751