**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC210720

## Glycophorin C (GYPC) (NM_002101) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Glycophorin C (GYPC) (NM_002101) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Glycophorin C |
| **Synonyms:** | CD236; CD236R; GE; GE:GPC:GPD:GYPD; GPC; GPD; GYPD; PAS-2; PAS-2' |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC210720 representing NM_002101
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGTCGACGAGAAGCCCCAACAGCACGGCGTGGCCTCTCAGCCTCGAGCCTGATCCGGGGATGGCCT
CTGCCTCCACCACAATGCATACTACCACCATTGCAGAGCCTGATCCAGGGATGTCTGGATGGCCGGATGG
CAGAATGGAGACCTCCACCCCCACCATAATGGACATTGTCGTCATTGCAGGTGTGATTGCTGCTGTGGCC
ATCGTCCTAGTCTCCCTCCTCTTCGTCATGCTGCGCTACATGTACCGGCACAAGGGCACGTACCACACCA
ATGAGGCCAAGGGCACGGAGTTTGCTGAGAGTGCAGATGCAGCCCTGCAGGGCGACCCTGCCCTCCAAGA
TGCTGGTGATAGCAGCAGAAAGGAGTACTTTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC210720 representing NM_002101
Red=Cloning site Green=Tags(s)

MWSTRSPNSTAWPLSLEPDPGMASASTTMHTTTIAEPDPGMSGWPDGRMETSTPTIMDIVVIAGVIAAVA
IVLVSLLFVMLRYMYRHKGTYHTNEAKGTEFAESADAALQGDPALQDAGDSSRKEYFI

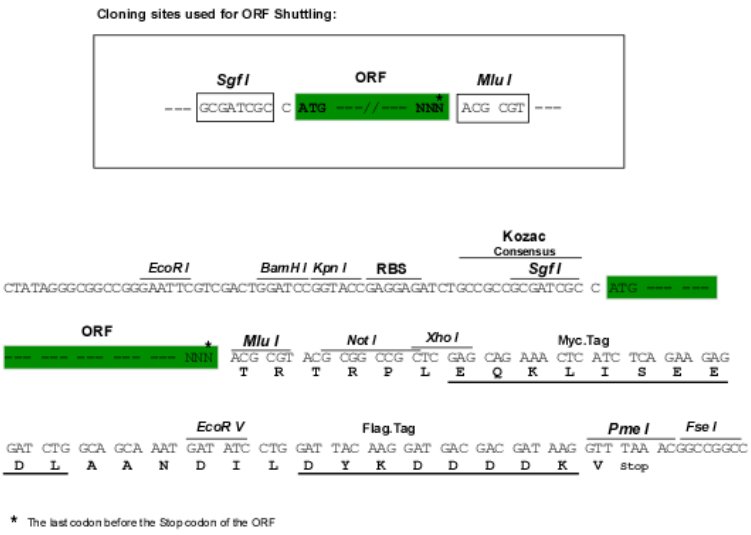
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mg3381_b03.zip

**Restriction Sites:** SgfI-MluI

View online »

**Cloning Scheme:**




| | |
|---|---|
| **ACCN:** | NM_002101 |
| **ORF Size:** | 384 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_002101.5 |
| **RefSeq Size:** | 1075 bp |
| **RefSeq ORF:** | 387 bp |
| **Locus ID:** | 2995 |
| **UniProt ID:** | P04921 |

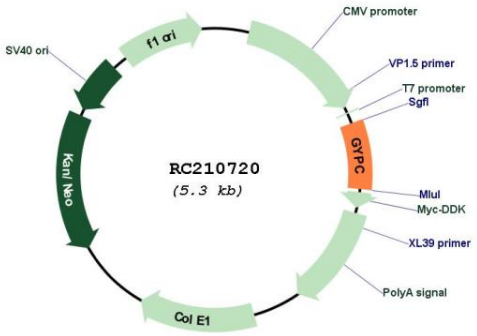
**Cytogenetics:** 2q14.3

**Protein Families:** Druggable Genome, Transmembrane

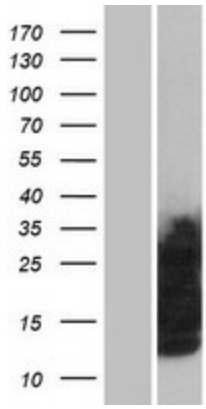
**MW:** 13.6 kDa

**Gene Summary:** Glycophorin C (GYPC) is an integral membrane glycoprotein. It is a minor species carried by human erythrocytes, but plays an important role in regulating the mechanical stability of red cells. A number of glycophorin C mutations have been described. The Gerbich and Yus phenotypes are due to deletion of exon 3 and 2, respectively. The Webb and Duch antigens, also known as glycophorin D, result from single point mutations of the glycophorin C gene. The glycophorin C protein has very little homology with glycophorins A and B. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

## Product images:




Circular map for RC210720




Western blot validation of overexpression lysate (Cat# [LY419537]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210720 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).