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Product datasheet for RG217103

Glycophorin C (GYPC) (NM_016815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycophorin C (GYPC) (NM_016815) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GYPC
Synonyms:	CD236; CD236R; GE; GE:GPC:GPD:GYPD; GPC; GPD; GYPD; PAS-2; PAS-2'
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG217103 representing NM_016815
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGTCGACGAGAAGCCCCAACAGCACGGCGTGGCCTCTCAGCCTCGAGCCTGATCCAGGGATGTCTG
GATGGCCGGATGGCAGAATGGAGACCTCCACCCCCACCATAATGGACATTGTCGTCATTGCAGGTGTGAT
TGCTGCTGTGGCCATCGTCCTAGTCTCCCTCCTCTTCGTCATGCTGCGCTACATGTACCGGCACAAGGGC
ACGTACCACACCAATGAGGCCAAGGGCACGGAGTTTGCTGAGAGTGCAGATGCAGCCCTGCAGGGAGACC
CTGCCCTCCAAGATGCTGGTGATAGCAGCAGAAAGGAGTACTTTATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217103 representing NM_016815
Red=Cloning site Green=Tags(s)

MWSTRSPNSTAWPLSLEPDPGMSGWPDGRMETSTPTIMDIVVIAGVIAAVAIVLVSLLFVMLRYMYRHKG
TYHTNEAKGTEFAESADAALQGDPALQDAGDSSRKEYFI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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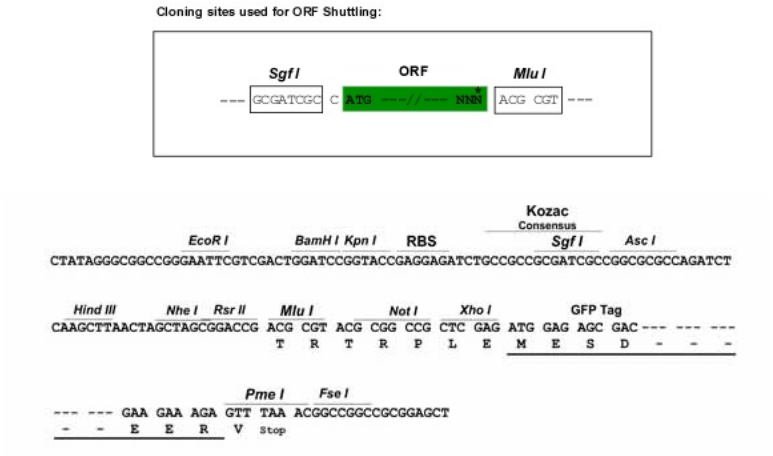
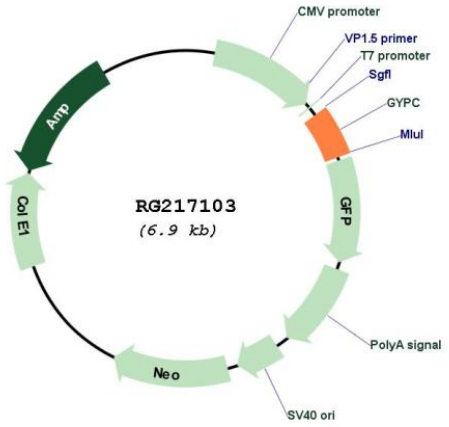
Cloning Scheme:



Plasmid Map:



ACCN: NM_016815

ORF Size: 327 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

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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_016815.3
RefSeq Size:	1019 bp
RefSeq ORF:	330 bp
Locus ID:	2995
UniProt ID:	P04921
Cytogenetics:	2q14.3
Protein Families:	Druggable Genome, Transmembrane
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]

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