

Product datasheet for **RG223197**

PIGP (NM_153681) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIGP (NM_153681) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PIGP
Synonyms: DCRC; DCRC-S; DEE55; DSCR5; DSRC; EIEE55; PIG-P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223197 representing NM_153681
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGCCACGGAGCACATCGCTGACGCTGATTGTGTTCTTTCCACAGATTGTCTAAAGCCCCAGGAA
 AAATGGTGGAAAATTCACCGTCGCCATTGCCAGAAAGAGCGATTATGGCTTTGTTCTTTCTTAAGCTC
 CCAATTTGGCTTCATACTTTACCTCGTGTGGCCTTTATTCCTGAATCTGGCTAAACTCTTAGGTTTA
 ACCTATTGGCCTCAAAAATATTGGGCAGTTGCATTACCTGTCTACCTCCTTATTGCTATAGTAATTGGCT
 ACGTGCTCTTGTGGGATTAACATGATGAGTACCTCTCCACTCGACTCCATCCATACAATCACAGATAA
 CTATGCAAAAAATCAACAGCAGAAGAAATACCAAGAGGAGGCCATTCCAGCCTTAAGAGATTTTCTATT
 AGTGAAGTAAACCAATGTTCTTTCTTGACGCAAAGAAGCTTTACACCAAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223197 representing NM_153681
 Red=Cloning site Green=Tags(s)

MVPRSTSLTLIVFLFHRLSKAPGKMOVNSPSPERPARIYGFVFLSSQGFILYLWVAFIPESWLNLSGL
 TYWPQKYWAVALPVYLLIAIVIGYVLLFGINMMSTSPLDISIHTITDNYAKNQKKYQEEAIPALRDISI
 SEVNMFFLAAKELYTKN

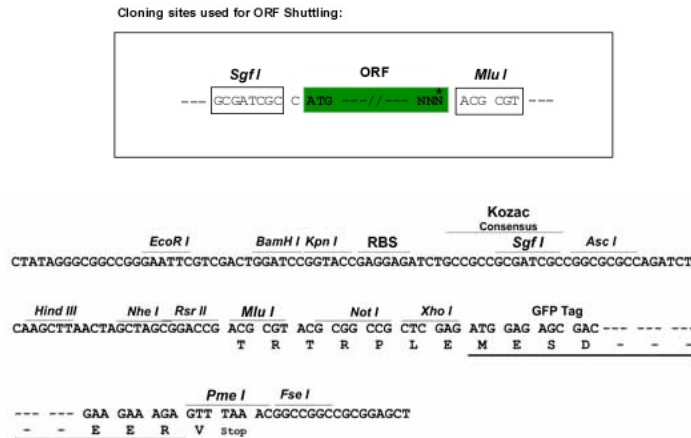
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

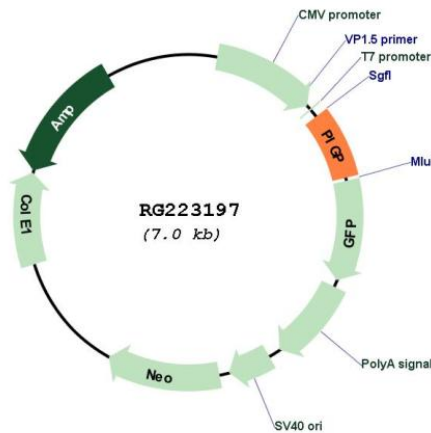


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Cloning Scheme:



Plasmid Map:



ACCN: NM_153681

ORF Size: 474 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:	<ol style="list-style-type: none">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:	<u>NM_153681.2, NP_710148.1</u>
RefSeq Size:	911 bp
RefSeq ORF:	477 bp
Locus ID:	51227
UniProt ID:	<u>P57054</u>
Cytogenetics:	21q22.13
Protein Families:	Transmembrane
Protein Pathways:	Glycosylphosphatidylinositol(GPI)-anchor biosynthesis, Metabolic pathways
Gene Summary:	This gene encodes an enzyme involved in the first step of glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells that serves to anchor proteins to the cell surface. The encoded protein is a component of the GPI-N-acetylglucosaminyltransferase complex that catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc to phosphatidylinositol (PI). This gene is located in the Down Syndrome critical region on chromosome 21 and is a candidate for the pathogenesis of Down syndrome. This gene has multiple pseudogenes and is a member of the phosphatidylinositol glycan anchor biosynthesis gene family. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Feb 2016]