

## Product datasheet for **SC110438**

### PIGP (NM\_153682) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PIGP (NM_153682) Human Untagged Clone
Tag:	Tag Free
Symbol:	PIGP
Synonyms:	DCRC; DCRC-S; DEE55; DSCR5; DSRC; EIEE55; PIG-P
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110438 sequence for NM_153682 edited (data generated by NextGen Sequencing)

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ATGGTGGAAAATTCACCGTCGCCATTGCCAGAAAGAGCGATTTATGGCTTTGTTCTTTTC
TTAAGCTCCCAATTTGGCTTCATACTTTACCTCGTGTGGGCTTTATTCCCTGAATCTTGG
CTAAACTCTTTAGGTTTAACTATTGGCCTCAAAAATATTGGGCAGTTGCATTACCTGTC
TACCTCCTTATTGCTATAGTAATTGGCTACGTGCTCTTGTGGGATTAACATGATGAGT
ACCTCTCCACTCGACTCCATCCAACAATCACAGATAACTATGCAAAAAATCAACAGCAG
AAGAAATACCAAGAGGAGGCCATTCCAGCCTTAAGAGATATTTCTATTAGTGAAGTAAAC
CAAATGTTCTTTCTTGCAGCCAAAGAAGCTTTACACCAAAAACTGA
```

Clone variation with respect to NM\_153682.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_153682 unedited  CAAATTTTGTAAACGACTCACTATAGGGCGCCGCGAAATTCGCACCAGGGCGCTTGCG  CGGAGAACTCAGCGCTGAGATTGTCTAAACCCAGAAAAATGGTGAAAAATTCACCGTCG  CCATTGCCAGAAAGAGCGATTTATGGCTTTGTTCTTTCTTAAGCTCCCAATTTGGCTTC  ATACTTACCTCGTGTGGCCTTTATTCCTGAATCTTGGCTAACTCTTTAGGTTAACC  TATTGGCTCAAAAATATTGGGCAGTTGCATTACCTGTCTACCTCCTTATTGCTATAGTA  ATTGGCTACGTGCTCTTGTTTGGGATTAACATGATGAGTACCTCTCCACTCGACTCCATC  CATACAATCACAGATAACTATGCAAAAAATCAACAGCAGAAAGAAATACCAAGAGGAGGCC  ATTCCAGCCTTAAGAGATATTTCTATTAGTGAAGTAAACCAAATGTTCTTTCTTGACGCC  AAAGAAGTTTACACCAAAAACTGAACTGTGTGAACCATAGTAACACCAAGCAGTATTT  ATTTATAAGTTTTGCCATTATAATTTTGACCATAAATTAATTTGACCATCTCTCTTATT  AATAGAGAAGTAAAAATGTAAGTTGACCTTCTCTTAGATTATGTTCAATGAATATTGTA  AATGTTCAAGTATTGTTAATGAATAGAATAAATAACAATATTGCATTCCCATAAAAA  AAAAAACTCGACTCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCG  GGTGGCATCCCTGTGACCCTNCCAGTGCCTCTCTGGCCCTGAAGTTGCCACTCCAG  TGCCACAGCCTTTGTCTAATAAAATAAAGTGCATTTTTCTGACTAGGTGTCCTCTT  ATATATGGGTANNGGGGGGNNNNNNNCAAAAGGGACAATTTGAAACACACCTGA  GGGCTGGGGGCTATGGGGACCAACTGGATGCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_153682 unedited  ATGGACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTATGGGAATGCAAT  ATTGTATTTATTCTATTCATTAACAATACTTGAACATTTACAATATTCATTGAACATAAT  CTAAGAGAAGTCAACTTACATTTTTTACTTCTCTATTAATAAGAGAGATGGTCAAATTA  ATTTATGGTCAAATTATAATGGCAAAAACCTATAAATAAATACGTGCTTGGTGTACTA  TGTTTACACACAGTTCAGTTTTTGGTGTAAAGTCTTTGGCTGCAAGAAAGAACATTTGG  TTTACTTCACTAATAGAAATATCTCTTAAGGCTGGAATGGCCTCCTCTTGGTATTTCTTC  TGCTGTTGATTTTTTGCATAGTTATCTGTGATTGTATGGATGGAGTCGAGTGGAGAGGTA  CTCATCATGTTAATCCCAACAAGAGCAGTAGCCAATTAATAAGCAATAAGGAGGTAG  ACAGGTAATGCAACTGCCAATATTTTTGAGGCCAATAGGTTAAACCTAAAGAGTTTAGC  CAAGATTCAGGAATAAAGGCCACACGAGGTAAGTATGAAGCCAATTTGGGAGCTTAAG  AAAAGAACAAGCCATAAATCGCTCTTTCTGGCAATGGCGACGGTGAATTTCCACCATT  TTTCTGGGGCTTAGACAATCTCAGCGCTGAGTTCTCCGCGCAAGCGCCCTGGTGGCGA  ATTCGCGGCCCGCTATAGTGAAGTGTATACANAATTCTGACGGTCACTAAACGAGCTC  TGCTTATATANGACCTCCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGGCGGGG  TTATTACGACATTTTGGAAAGTCCCGTGATTTTGTGCAACAACCTCCATGACGTCA  AGGGGTGAGACTTGAAACCCCGGAGTAAACGCTTCCACGCATTGTGACTGGCAACCGCT  TACCTGGAAGCGAGACAAACGTA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_153682
<b>Insert Size:</b>	680 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_153682.1](#), [NP\\_710149.1](#)

**RefSeq Size:** 727 bp

**RefSeq ORF:** 405 bp

**Locus ID:** 51227

**UniProt ID:** [P57054](#)

**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]

Transcript Variant: This variant (2) contains a distinct 5' UTR and initiates translation from a downstream start codon, compared to variant 1. The encoded protein (isoform 2) has a shorter N-terminus compared to isoform 1. Variants 2 and 5 encode the same protein (isoform 2).