

## Product datasheet for **SC330882**

### GNPDA2 (NM\_001270881) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GNPDA2 (NM\_001270881) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GNPDA2  
**Synonyms:** GNP2; SB52  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330882 representing NM\_001270881.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGATGAATATGTAGGACTTCCAAGAAATCATCCTGAAAGCTACCATTCTTATATGTGGAATAATTTT
TTTAAGCATATCGATATAGATCCTAATAATGCACATATCCTTGACGGGAATGCTGCAGATTTACAAGCA
GAATGTGATGCTTTTGAAAACAAAATAAAAGAAGCTGGAGGAATAGATCTTTTGTGGAGGAATTGGT
CCAGATGGTCATATCGCTTTCAATGAGCCTGGATCCAGTTTGTGTCAAGGACAAGATTAAGACTCTA
GCAATGGATACCATCTTGCAAATGCCAAATATTTTGTGGAGATTTATCAAAGTGCCAACTATGGCT
CTAACTGTTGGTGTGGGGACAGTGATGGATGCTAGAGAAGTAATGATCCTTATAACAGGGGCACACAAG
GCATTTGCCCTGTACAAAGCAATAGAAGAAGGAGTCAATCACATGTGGACTGTTCCGCTTCCAGCAG
CATCCCCGGACTATTTTGTATGCGATGAAGATGCTACTTTAGAATTAAGAGTTAAAAGTGTGAAATAC
TTTAAAGTCTAATGCATGTGCACAATAAACTGTGGATCCACTATTCAGTATGAAAGATGGAAACTGA
```

**Restriction Sites:** Sgfl-Mlul



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Plasmid Map:



ACCN: NM\_001270881

Insert Size: 621 bp

OTI Disclaimer: 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).

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).

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_001270881.1</a>  |
| <b>RefSeq Size:</b>           | 2154 bp   |
| <b>RefSeq ORF:</b>            | 621 bp  |
| <b>Locus ID:</b>              | 132789  |
| <b>UniProt ID:</b>            | <a href="#">Q8TDQ7</a>  |
| <b>Cytogenetics:</b>          | 4p12  |
| <b>Protein Pathways:</b>      | Amino sugar and nucleotide sugar metabolism, Metabolic pathways   |
| <b>MW:</b>                    | 22.9 kDa  |
| <b>Gene Summary:</b>          | <p>The protein encoded by this gene is an allosteric enzyme that catalyzes the reversible reaction converting D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium. Variations of this gene have been reported to be associated with influencing body mass index and susceptibility to obesity. A pseudogene of this gene is located on chromosome 9. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]</p> <p>Transcript Variant: This variant (3) lacks an alternate exon in the 5' UTR and uses a downstream start codon compared to variant 1. It encodes isoform 3 which has a shorter N-terminus compared to isoform 1.</p> |