

Product datasheet for **SC330881**

GNPDA2 (NM_001270880) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNPDA2 (NM_001270880) Human Untagged Clone
Tag: Tag Free
Symbol: GNPDA2
Synonyms: GNP2; SB52
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330881 representing NM_001270880.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

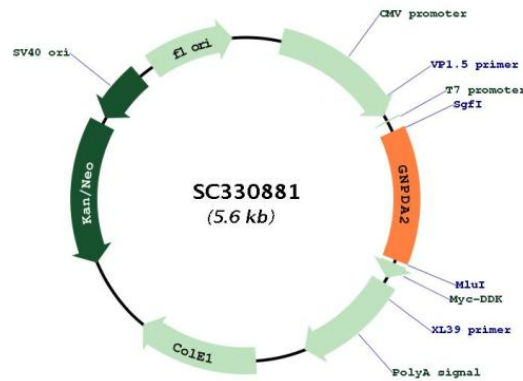
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ATGAGGCTTGTAAATTCTTGATAACTATGACTTGGCTAGTGAATGGGCAGCCAAATACATCTGTAATCGC
ATCATTCAAGTTCAAACCTGGACAGGACAGATATTTTACACTGGGTTTACCAACAGGACTTCCAAGAAAT
CATCCTGAAAGCTACCATTCTTATATGTGAATAATTTTTTAAAGCATATCGATATAGATCCTAATAAT
GCACATATCCTTGACGGGAATGCTGCAGATTTACAAGCAGAATGTGATGCTTTTGAAAACAAAATAAAA
GAAGCTGGAGGAATAGATCTTTTTGTTGGAGGAATTGGTCCAGATGGTCATATCGCTTTCAATGAGCCT
GGATCCAGTTTAGTGTCAAGGACAAGATTAAGACTCTAGCAATGGATACCATCTTGGCAAATGCCAAA
TATTTTGTATGGAGATTTATCAAAAGTGCCAACTATGGCTCTAACTGTTGGTGTGGGGACAGTGATGGAT
GCTAGAGAAGTAATGATCCTTATAACAGGGGCACACAAGGCATTTGCCCTGTACAAAGCAATAGAAGAA
GGAGTCAATCACATGTGGACTGTTTCCGCTTTCCAGCAGCATCCCCGGACTATTTTTGTATGCGATGAA
GATGCTACTTTAGAATTAAGAGTTAAAAGTGTGAAATACTTTAAAGGTCTAATGCATGTGCAACAATAA
CTTGTGGATCCACTATTCAGTATGAAAGATGAAACTGA
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001270880

Insert Size: 729 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).

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:	NM_001270880.1
RefSeq Size:	2211 bp
RefSeq ORF:	729 bp
Locus ID:	132789
UniProt ID:	Q8TDQ7
Cytogenetics:	4p12
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Metabolic pathways
MW:	27.1 kDa
Gene Summary:	<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 (2) lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.</p>