

## Product datasheet for **SC128186**

### GNPDA2 (NM\_138335) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNPDA2 (NM_138335) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNPDA2
Synonyms:	GNP2; SB52
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128186 sequence for NM_138335 edited (data generated by NextGen Sequencing)

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ATGAGGCTTGTAATTCCTTGATAACTATGACTTGGCTAGTGAATGGGCAGCCAAATACATC
TGTAATCGCATCATTCAGTTCAAACCTGGACAGGACAGATATTTTACACTGGGTTTACCA
ACAGGGAGTACACCTTTAGGATGCTATAAAAACTAATAGAATATCATAAGAATGGACAC
CTTTCTTTTAAATATGTGAAGACCTTTAATATGGATGAATATGTAGGACTTCCAAGAAAT
CATCCTGAAAGCTACCATTCTTATATGTGGAATAATTTTTTTAAGCATATCGATATAGAT
CCTAATAATGCACATATCCTTGACGGGAATGCTGCAGATTTACAAGCAGAATGTGATGCT
TTTGAAAACAAAATAAAGAAGCTGGAGGAATAGATCTTTTTGTTGGAGGAATTGGTCCA
GATGGTCATATCGCTTTCAATGAGCCTGGATCCAGTTTAGTGCAAGGACAAGATTAAG
ACTCTAGCAATGGATACCATCTTGGCAAATGCCAAATATTTTGATGGAGATTTATCAAAA
GTGCCAACTATGGCTCTAACTGTTGGTGTGGGGACAGTATGGATGCTAGAGAAGTAATG
ATCCTTATAACAGGGGCACACAAGGCATTTGCCCTGTACAAAGCAATAGAAGAAGGAGTC
AATCACATGTGGACTGTTTCCGCTTTCCAGCAGCATCCCCGGACTATTTTGTATGCGAT
GAAGATGCTACTTTAGAATTAAGAGTTAAAAGTGTGAAATACTTTAAAGGTCTAATGCAT
GTGCACAATAAAGTGTGGATCCACTATTCAGTATGAAAGATGGAAGTGA
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Clone variation with respect to NM\_138335.1



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_138335 unedited</p> <p>TGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGCTGTTCCAGCGTCGAAGAA          CCATTGGGTCTGCCGTTTGAACCTGTTCTGGAAGCTGTGCGTACCCTAATGAGGCTTG          TAATTCTTGATAACTATGACTTGGCTAGTGAATGGGCAGCCAAATACATCTGTAATCGCA          TCATTCAGTTCAAACCTGGACAGGACAGATATTTTACTGGGTTTACCAACAGGGAGTA          CACCTTTAGGATGCTATAAAAACTAATAGAATATCATAAGAATGGACACCTTTCTTTTA          AATATGTGAAGACCTTTAATATGGATGAATATGTAGGACTTCCAAGAAATCATCCTGAAA          GCTACCATTCTTATATGTGAATAATTTTTTTAAGCATATCGATATAGATCCTAATAATG          CACATATCCTTGACGGGAATGCTGCAGATTTACAAGCAGAATGTGATGCTTTTAAAAACA          AAATAAAGAAGCTGGAGGAATAGATCTTTTTGTTGGAGGAATGGTCCAGATGGTCATA          TCGCTTCAATGAGCCTGGATCCAGTTTGTGTCAAGGACAAGATTAAAGACTCTAGCAA          TGGATACCATCTGGCAAATGCCAAATATTTTGTGGAGATTTATCAAAAGTGCCAACTA          TGGCTCTAACTGGTTTGGTGTGGGGACAGTNGATGGATGCTANNAGAGTNNATGATCCTT          ATAACAGGGGCACACAAGGCATNNTGCCCTGTACAAAGCANTAGAAGAAAGGAGTCNATC          ACATGTGGACTGGTTTCCGCTTCCAGCAGCATCCCCGACTATTTTGTATGCGATGAAG          ATGCTACTTTAAATTTAAGAGTTAAACTGGTGAATACTTTAAGGTCTAAGGCATGTGCAC          ATAACTCTGGGGATCCATCTTTTCAGTTGAAAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_138335 unedited</p> <p>AGCTATGNACCGCCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATTTTCATT          AATTTATTTGCTATTTTAAATTTTAAAGAACTACATTTTAAATCACATAGACAAGCAGAT          AAGTAAGGCTTCTCTACCAGGTGGCTTATGAAATGCAAAATAAGCAAAAGGAGCATTT          TTTTGCTCCCCACAGAGGCAAAGACATCTTTTAACTAATCTCCTAATGCATGATGGTA          ACAAAACCAAAATGAATGCAGGTTACATGTACTATAATTGTTGGGAGTCGAATGCATGT          ATTCTTCAAGTTCACCTTCTGAAATTTAGATAACTTATTTATTACACGCTTTATTTGAGT          TAAAGATAAAAAACAATATACTTTTATGTAATTGCTATGGCAATGTAGTTTACAGTAAT          TCCTTTTATATACTTCGTATTATTCTTTTAGACATTTTATAAGGAATAAAGCTAATTG          TATATTAAGTTTAAACAATAATCAGAAAAATTCTCCAAAAGAATTTCTGAAGTGGCTTG          CTAGGTATAAAGCTCATAATTGTCAAGATACTTATATTAGGGACATGAACCAAGTCGTT          AAATAAAAAATAAGATATTTGTAAGAAAGTGCTATAGAAGAAGGTGCACAAAANACATGCA          CTTACACATACTTTCCAAAAGATGTAAGTACTTTTAGGCACTGTCATCTCTTCAA          TTCTTTTACCAATGATATATAGCACAATTTTGTATGTCTAGATGGTGTGTAGGAAGATG          ACTAAGGCAACCACGTGCAGAAAAGCATGTGTGTGATGCACAGAAAATAC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138335
<b>Insert Size:</b>	2500 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).

<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_138335.1</a> , <a href="#">NP_612208.1</a>
<b>RefSeq Size:</b>	1939 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	132789
<b>UniProt ID:</b>	<a href="#">Q8TDQ7</a>
<b>Cytogenetics:</b>	4p12
<b>Domains:</b>	Glucosamine_iso
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Metabolic pathways
<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 (1) represents the longest transcript and encodes the longest isoform (1).</p>