

## Product datasheet for **SC319757**

### GNPDA1 (NM\_005471) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNPDA1 (NM_005471) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNPDA1
Synonyms:	GNP1; GNPDA; GNPI; GPI; HLN
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_005471.3  
 GCAGTCGCTGCAGCCGCCGGGAGGCGTCCGTGACAAGATGAAGCTCATCATCCTGGAG  
 CACTATTCTCAGGCGAGCGAGTGGGCGGCTAAATACATCAGGAACCGCATCATCCAGTTT  
 AACCCAGGGCCAGAGAAGTACTTCACCCCTGGGGCTCCCCACTGGGAGTACCCCACTTGGC  
 TGCTACAAGAAGCTGATTGAATACTATAAGAATGGGGACCTGCCTTTAAATATGTGAAG  
 ACCTTCAACATGGATGAGTACGTGGGCCTTCTCGAGACCACCCGGAGAGTTACCACTCC  
 TTCATGTGGAACAACCTTCTCAAGCACATTGACATCCACCCAGAAAACACCCACATTCTG  
 GATGGGAATGCAGTCGACCTACAGGCAGAATGTGATGCCTTTGAAGAGAAGATCAAGGCT  
 GCAGGTGGGATCGAGCTATTTGTTGGAGGCATCGGCCCTGATGGACACATTGCCTTCAAC  
 GAGCCAGGCTCCAGTCTGGTGTCCAGGACCCGTGTGAAGACGCTGGCCATGGATACCATC  
 CTGGCCAATGCTAGGTTCTTCGATGGAGAACTACCAAGGTGCCACCATGGCCTTGACG  
 GTGGGGTGGGCACTGTCATGGATGCTAGAGAGGTGATGATCCTTATCACAGGTGCTCAC  
 AAGGCATTTGCTCTGTACAAGGCCATCGAGGAGGGAGTGAACCACATGTGGACCGTGTCT  
 GCCTTCCAGCAGCATCCCGCACCGTGTGTGTGTGACGAGGATGCCACCTTGAGCTG  
 AAAGTGAAGACTGTCAAGTATTTCAAAGGTTTAAATGCTTGTTCATAACAAGTTGGTGGAC  
 CCCTTGTACAGTATCAAAGAGAAAAGAACTGAGAAAAGCCAATCTTGAAGAAAACCATAC  
 AGCGATTAGCCTGTGCTGGGACCTAGTGTCAAGTACCCATAGGGAAGGCAAGTCTTTCT  
 GGAAATTTGCTTTAGAAGAAAAGAAATTTGATTTCTTTAATCTAGTATGGTACTCCAGATA  
 AGTGGGTGAACCTATTGTTCTTGCCATGAGGCTGGGAGCCTAGTCACGGAGTTTAGCTA  
 TAGGGAGAATGTTTGAACCTAATCAGAAAAAATATCTGCAAATGACTCCATCATT  
 TTGATGTCTGCCAAACCCAGGTTGGGAGTTTTAACTTTTTGTTCTGCTTCCAGCATGGT  
 TCACACATATGACACACTCCCGTCAGGAATTTCTCTTACACGCACTGATTTTCAAGT  
 GGGAGGAATTAGGGGCTTATGTATATTGGATACCACCTTTGAGAGTCCTTCTTGACACA  
 GGCTGCCCTTGGTTGAGAACCATTGTTCCAAGTGAAGGCACAACTCTCAATATCTAA  
 AATAAGTGCAAGGAAGCAGTCTCTTTGGTCAGTAACAAGTGAATGGAAAAGAAACGATC  
 CCTTCTTCTTCCACTTTCACAGCTTTTCTCTGAACTAGGAGAACCTGGGGTGGATTTG  
 GGTGGGTGGGGCCAAAGAGGAGGCTTCTATTGATAAATCCAGAGCCTCAAGGGGCCAGC  
 CACGTCAAACCTCTCCCTCAGGGACTCTCCAGCACAAAAGGCAGAAGGTGGAAGCCG  
 TTTTTCCCCCAGAGCCCTGTGTTTTGTGAAAGGCCTCACTGTGGCTCCTCTGTTTTACA  
 TACTCATTAGTAAGTGGGAGTCCACTGGGGCAACAGACTGCCACAATTTCAAGTGTG  
 TGTTCAAGCAAGGGGACGGTCTGGACAGGCAGCTTAAGTGTGAGTTTAGTCACAACCTCT  
 GAGTGTCCCGCTCTCCTGCTTACCTAGGAGGTGAGTGCCAGGAAAATACACCAATGCTT  
 CTAGTATTGTTTCCCACTTAAAATAGTCTGCTTAAATTCACATGGTGTGGTCTGATGT  
 TCTGAGAGCATCAGGAAATACAACCTTTTGCCATTTACCTTCTCCCCGGATCCCAAG  
 GTGGTCTGTTGCTCTGGCTTCTTTCAATTGTCTTAGGCCCTCATGGAGTGGATGCTGCCT  
 CCTCTGGCTGTTTTGTGCCTGTTTGAAGCTACTGCTGCCTCCATTTCTGGGAAAGACC  
 TTTGAGAGCCTAGCCAGGCCTAAGGGCTATGTTTGGTACCAGTATTTTGTCTTTAGCTT  
 TTCTATGTGATTGTCCGTCATTCTGTTTTAAGCTCATGGATCAATGGATTTGTTTACAA  
 TGTGATATTTCTATTAATCCAGTATTTCAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005471

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_005471.3</a> , <a href="#">NP_005462.1</a>
<b>RefSeq Size:</b>	2285 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	10007
<b>UniProt ID:</b>	<a href="#">P46926</a>
<b>Cytogenetics:</b>	5q31.3
<b>Domains:</b>	Glucosamine_iso
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Metabolic pathways
<b>Gene Summary:</b>	Glucosamine-6-phosphate deaminase (EC 3.5.99.6) is an allosteric enzyme that catalyzes the reversible conversion of D-glucosamine-6-phosphate into D-fructose-6-phosphate and ammonium (Arreola et al., 2003 [PubMed 12965206]).[supplied by OMIM, Jan 2010]