

## Product datasheet for **SC115106**

### GNPAT (NM\_014236) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNPAT (NM_014236) Human Untagged Clone
Tag:	Tag Free
Symbol:	GNPAT
Synonyms:	DAP-AT; DAPAT; DHAPAT; RCDP2
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:**

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>OriGene ORF sequence for NM_014236 edited
GAATTCGCACGAGGGGCGCCCGGGATCCTGTGTAGCGGCTGCAGAGGGTCCCGCCGCCCT
AGGCGAAGTAGGGCCGTCTGAGCGAAAGAACCGCCCCAGCAGGAGCACCACCACGGCT
TAGCAAAGAAATCCCAGACCCCGCCGGGAAGGCAGCCGCACCATGGAGTCTTCCAGTTCA
TCTAACTTTATTTCTCCGTTGGCCCAACCAGTCCCAGCGCTGTCGTGCTCCTCTACTCG
AAGGAGCTCAAAAAGTGGGATGAGTTTGAAGATATTTTAGAAGAGAGGAGGCATGTCAGT
GACTTGAATTTGCAATGAAATGCTACACACCTTTGTCTATAAGGGAATTACTCCATGT
AAACCAATTGATATTTAAATGTAGTGTTCTCAATTCTGAGGAGATTCATTATGTCATTA
CAGCTTTCCAAGGAATCCCTTCAATCTGTGGATGTCCTCCGAGAGGAAGTGAAGTGAATC
TTAGATGAAATGAGTCACAAACTGCGTCTTGGAGCCATTCGGTTTTGTGCCTTACCCTG
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GACTTCTCATGTTGCTTTTCTTCTATACAATTATGATTTGCCTGTGCCAGTTATAGCA
GCAGGAATGGACTTCTGGGAATGAAAATGGTTGGTGAAGTGTACGAATGTCGGGTGCC
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AAAAAAAAAAAAAATCGATCCTAGATTGCGGCCGCGG
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014236 unedited  GTTCAAATTTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGGCGCCCGG  GATCCTGTGTAGCGGCTGCAGAGGGTGCCGCCCTAGGCGAAGTAGGGCCGTCTGAG  CGAAAGAACC GCCCCAGCAGGAGCACCACCACGGCTTAGCAAAGATCCCAGACCCCGC  CCGGGAAGGCAGCCGACCATGGAGTCTCCAGTTCATCTAACTTTATTCTCCGTTGG  CCCAACCAGTCCCAGCGCTGTCGTCTCTACTCGAAGGAGCTCAAAAAGTGGGATGA  GTTTGAAGATATTTAGAAAGAGAGGAGGCATGTCAGTGACTTGAATTTGCAATGAAATG  CTACACACCTCTGTCTATAAGGAATTACTCCATGTAAACCAATTGATATTTAAATGTAG  TGTTCTCAATTCTGAGGAGATTCATTATGTCATTAACAGCTTTCCAAGGAATCCCTTCA  ATCTGTGGATGTCCTCCGAGAGGAAGTGAGTGAGATCTTAGATGAAATGAGTCACAAACT  GCGTCTTGAGCCATTCCGTTNTGTGCCTTACCCTGAGCAAAGTATTTAAACAAATTTT  CTCGAAGTGTGTAAATGAAGAAGGTATTCAGAACTACAAAGAGCCATCCAGGAGCA  TCCTGTTGTTCTGCTGCCTAGTCATCGAAGTTACATTGACTTCCTCATGTTGTCTTTTCT  TCTATACAATTATGATTTGCCTGTGCCAGTTATAGCAGCAGGAATGGACTTCCTGGGAAT  GAAAATGGTTGGTGAGCTGCTACNAATGGTCGGTGCCTTTTTTCATGCGGGGTACCTTTGG  TGGCATAAACTCTACTGGGCTGTATTCTCTGATATGTAACCAATATGTACGNAATGGTAT  GCTCCTGTTGAATTTTNCCTCGAAGGGACAAGAGCCGCTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014236 unedited  TTAGCTATGGACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCCAAAC  ATGTTTCCAAAGTTTATTTTAAACACACACATAGTGTCAGATACAAACGCCTTTTAACC  ACTGTGGTGGGAAGAGTAACTGATTGCTTCCAATGATCATCTCTCCCTCTGCGTCCA  CTGTTCTCAGAGTCTCAGGGAGTATGAGAGGATGTGTCTTCTCCTTACTTCCCTGTTTG  TTGTAATGAGTCTTCGATGAGAGTAATTACGTGACCGAATTTTCCATAACTATTTGTTG  ATTATTAAGTTTTGCAAGTGGCTGGTTTTCTATTGGTGTCTTACAACCAAGCATTTCCT  CTAATTTGGTTGTGGCAGGTTTATTACATTAATATACAGTTATTTTATCTTCTTCT  TCTCCACTACTCCGAGCCTCACACAGGCTGCTAAGGCATTTTCTGCACATCAGAAGATA  ATACATCATAACATTGAGAGGTACCTTGATCGAGAAGCTGACTTGTGAATTTTCTGACTG  CAGCCAAGTACTGTTCTCACTGAAGTGGTCTTCTTCACTCAAAGGTAAGTCTGCAAA  TTATCTGATAGCTTTCCACAAAAGGTTTAAAGAGTCTACTAAAAATTCTAACACAGAT  TTCTTTCTCTGTAAGTGGATGCTTTTCGTAGTCACTTGTATGGCTTCACTTTTACAAA  GCAGGTAACAGCCTTCTTCAAAGTCTTTAATGTGTTTCTGGAAGGAAGATGAAGTCA  CTGCAAAAACACGTTAGAAAGCAAACAACTGTAGACTCCTTCTTCTGACCCTGGTGT  CATCTGCATGCTCCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014236
<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_014236.2</a> , <a href="#">NP_055051.1</a>
<b>RefSeq Size:</b>	2431 bp
<b>RefSeq ORF:</b>	2043 bp
<b>Locus ID:</b>	8443
<b>UniProt ID:</b>	<a href="#">O15228</a>
<b>Cytogenetics:</b>	1q42.2
<b>Domains:</b>	Acyltransferase
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycerophospholipid metabolism
<b>Gene Summary:</b>	<p>This gene encodes an enzyme located in the peroxisomal membrane which is essential to the synthesis of ether phospholipids. Mutations in this gene are associated with rhizomelic chondrodysplasia punctata. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>