

## Product datasheet for **RG204763**

### GNPDA1 (NM\_005471) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GNPDA1 (NM_005471) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNPDA1
Synonyms:	GNP1; GNPDA; GNPI; GPI; HLN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204763 representing NM_005471 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCTCATCATCCTGGAGCACTATTCTCAGGCGAGCGAGTGGGCGGCTAAATACATCAGGAACCGCA  
TCATCCAGTTTAACCCAGGGCCAGAGAAGTACTTCACCCTGGGGCTCCCCACTGGGAGTACCCCACTTGG  
CTGCTACAAGAAGCTGATTGAATACTATAAGAATGGGGACCTGTCCTTTAAATATGTGAAGACCTTCAAC  
ATGGATGAGTACGTGGGCTTCCCTCGAGACCACCCGGAGAGTTACCACTCCTTCATGTGGAACAACCTTCT  
TCAAGCACATTGACATCCACCCAGAAAACCCACATTCTGGATGGGAATGCAGTCGACCTACAGGCAGA  
ATGTGATGCCTTTGAAGAGAAGATCAAGGCTGCAGGTGGGATCGAGCTATTTGTTGGAGGCATCGGCCCT  
GATGGACACATTGCCTTCAACGAGCCAGGCTCCAGTCTGGTGTCCAGGACCCGTGTGAAGACGCTGGCCA  
TGGATACCATCCTGGCCAATGCTAGGTTCTTCGATGGAGAATCACCAAGGTGCCACCATGGCCTTGAC  
GGTGGGGGTGGGCACTGTCATGGATGCTAGAGAGGTGATGATCCTTATCACAGGTGCTCACAAAGGCATTT  
GCTCTGTACAAGGCCATCGAGGAGGGAGTGAACCACATGTGGACCGTGTCTGCCTCCAGCAGCATCCCC  
GCACCGTGTGTTGTGTGACGAGGATGCCACCTTGGAGCTGAAAGTGAAGACTGTCAAGTATTTCAAAGG  
TTAATGCTTGTTCATAACAAGTTGGTGGACCCCTGTACAGTATCAAAGAGAAAAGAACTGAGAAAAGC  
CAATCTTGAAGAAACCATACAGCGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204763 representing NM\_005471  
 Red=Cloning site Green=Tags(s)

MKLIILEHYSQASEWAAKYIRNRIIQFNPGPEKYFTLGLPTGSTPLGICYKLLIEYYKNGDLSFKYVKTFN  
 MDEYVGLPRDHPESYHSFMWNNFFKHIDIHPENTHILDGNAVLDLQAECDAFEKIKAAAGGIELFVGGIGP  
 DGHIAFNEPGSSLSRTRVKTLMAMDTILANARFFDDELTKVPTMALTVGVTVMVDAREVMILITGAHKAF  
 ALYKAIIEEGVNHMTVSFAFQQHPRTVFVCEDEATLELKVTKVYFKGLMLVHNKLVDP LYSIKEKETEKES  
 QSSKKPYSD

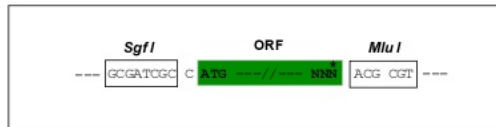
TRTRPLE - GFP Tag - V

**Restriction Sites:**

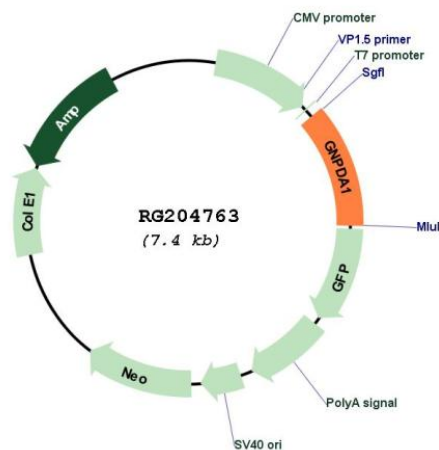
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_005471

**ORF Size:** 867 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_005471.5</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]