

## Product datasheet for **RG232618**

### GDA (NM\_001242506) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GDA (NM_001242506) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDA
Synonyms:	CYPIN; GAH; GUANASE; NEDASIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232618 representing NM_001242506 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTAGCATAGACCTGC  
CACTCTTGGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATCCAGAACATCGACTTTGCAGA  
AGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGTTACTTTGCAACA  
ATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGCCATTGTGGGCA  
AAGTTTGCATGGATTTGAATGACACTTTCCAGAATACAAGGAGACCACTGAGGAATCGATCAAGGAAAC  
TGAGAGATTTGTGTCAGAAATGCTCCAAAAGAACTATTCTAGAGTGAAGCCCATAGTGACACCACGTTTT  
TCCTCTCCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTGATTTGCACATTC  
AGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAACTTATACCCAGTTATAAAAACTA  
CACATCTGTGTATGATAAAAAAATCTTTTGACAAATAAGACAGTGATGGCACACGGCTGCTACCTCTCT  
GCAGAAGAACTGAACGATTTCCATGAACGAGGAGCATCCATCGCACACTGCCAATTCTAATTTATCGC  
TCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCTGGGTACAGACGT  
GGCTGGTGGCTATTCATATTCATGCTTGATGCAATCAGAAGAGCAGTGATGGTTCCAATATCCTTTTA  
ATTAATAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTTTGGAGGAAGCC  
AAGCCCTGGGGCTGGATGGTGAAGTTGAAACTTTGAAGTGGGCAAGGAATTTGATGCCATCTGATCAA  
CCCCAAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATTTCTGAGGCTGTT  
ATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTTATGTGGCGGAAAGCAGGTGG  
TTCCGTTTTCCAGCTCAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232618 representing NM\_001242506  
 Red=Cloning site Green=Tags(s)

MPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNIIDFAEEVYTRVVRRTLKNGTTTACYFAT  
 IHTDSSLLLADITDKFGQRAFVGKVCMDLNDTFPEYKETTESIKETERFVSEMLQKNYSRVKPIVTPRF  
 SLSCSETLMGELGNIKTRDLHIQSHISENRDEVAVKNLPSYKNTSVYDKNLLTNKTVMAHGCVLS  
 AEELNVFHERGASIAHCPNSNLSLSSGFLNVLEVLKHEVKIGLGTDVAGGYSYMLDAIRRAVMVSNILL  
 INKVNEKSLTLKEVFRLATLGGSQLGLDGEIGNFEVGFKEFDAILINPKASDSPIDLFGDFFGDISEAV  
 IQKFLYLGDNRNIEEVYVGKQVVPFSSSV

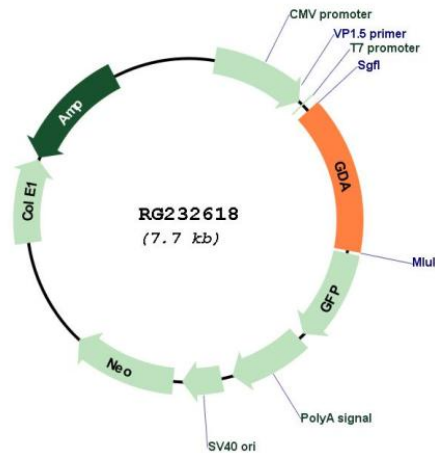
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001242506

<b>ORF Size:</b>	1140 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_001242506.3</a>
<b>RefSeq Size:</b>	5518 bp
<b>RefSeq ORF:</b>	1143 bp
<b>Locus ID:</b>	9615
<b>UniProt ID:</b>	<a href="#">Q9Y2T3</a>
<b>Cytogenetics:</b>	9q21.13
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism
<b>Gene Summary:</b>	This gene encodes an enzyme responsible for the hydrolytic deamination of guanine. Studies in rat ortholog suggest this gene plays a role in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]