

## Product datasheet for **RG232804**

### GDA (NM\_001242505) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | GDA (NM_001242505) 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)                    |



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**ORF Nucleotide Sequence:**

>RG232804 representing NM\_001242505  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGTGCCGCTCAGATGCCGCCCTGGCGCACATCTCCGAGGGACGTTTCGTCCTCCACCTGGACCT  
 GCCCATGGAGGTGCTGCGGGATCACCTCTCGCGTGAGCGACAGCGGCAAAATAGTGTGTTTGAAGA  
 AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAAGTACAGCCAC  
 CATGAGTCTTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTA  
 GCATAGACCTGCCACTCTGGAGTGGTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACAT  
 CGACTTTGCAGAAGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGT  
 TACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGG  
 CATTTGTGGGCAAAGTTGCATGGATTTGAATGACACTTTCCAGAATAAAGGAGACCAGTGGGAATC  
 GATCAAGGAAACTGAGAGATTTGTGTCAGAAATGCTCCAAAAGAATTTCTAGAGTGAAGCCCATAGTG  
 ACACCACGTTTTTCCCTCTCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTG  
 ATTTGCACATTCAGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAACTTATACCCAG  
 TTATAAAAACACACATCTGTGTATGATAAAAACAATCTTTTGACAAAATAAGACAGTGTGGCACACGGC  
 TGCTACCTCTCTGCAGAAGAAGTGAACGATTTCCATGAACGAGGAGCATCCATCGCACACTGTCCCAATT  
 CTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCT  
 GGGTACAGACGTGGCTGGTGGCTATTCATATCCATGCTTGATGCAATCAGAAGAGCAGTGTGGTTTCC  
 AATATCCTTTTAAATTAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTC  
 TTGGAGGAAGCCAAGCCCTGGGGCTGGATGGTGAGATTGAAAACCTTTGAAGTGGGCAAGGAATTTGATGC  
 CATCCTGATCAACCCCAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATT  
 TCTGAGGCTGTTATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTATGTGGCG  
 GAAAGCAGGTGGTTCCGTTTTCCAGCTCAGTGAAGAAACAATTCACCTACCAGCCTCTCACCCATCC  
 TCCACCATTTCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG232804 representing NM\_001242505  
 Red=Cloning site Green=Tags(s)

MCAAQMPPLAHIFRGTFFVHSTWTCPEVLRDHLGVSDSGKIVFLEEASQQEKLAKEWCFKPEIRELSH  
 HEFFMPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFAEEVYTRVRRRLKNGTTTAC  
 YFATIHTDSSLLADITDKFGQRAVVGKVCMDLNDTFPEYKETTEESIKETERFVSEMLQKNYSRVKPIV  
 TPRFSLSCSETLMGELGNI AKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVYDKNLLTNKTVMAHG  
 CYLSAEELNVFHERGASIAHCPNSNLSLSSGFLNVLEVLKHEVKIGLGTVDVAGGYSMLDAIRRAVMVS  
 NILLINKVNEKSLTLKEVFRLATLGGSQALGLDGEIGNFEVKGFE DAILINPKASDSPIDLFYGDFFGDI  
 SEAVIQKFLYLGDNRNIEEVYVGGKQVVPFSSSVKETIHLPASSPHPPFP

**TRTRPLE** - GFP Tag - V

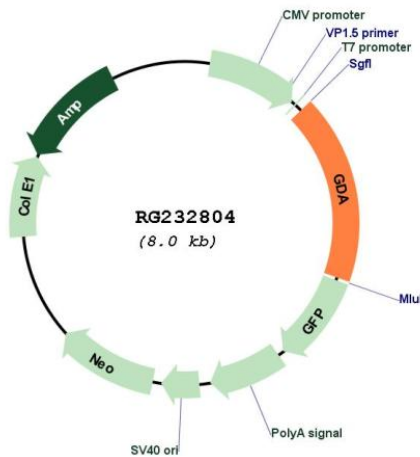
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001242505

ORF Size: 1413 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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_001242505.2</a> , <a href="#">NP_001229434.1</a>   |
| <b>RefSeq Size:</b>           | 2096 bp   |
| <b>RefSeq ORF:</b>            | 1416 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]   |