

Product datasheet for **RG232619**

GDA (NM_001242507) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GDA (NM_001242507) 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: >RG232619 representing NM_001242507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTAGCATAGACCTGC
CACTCTTGGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATCCAGAACATCGACTTTGCAGA
AGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGTTACTTTGCAACA
ATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGCCATTGTGGGCA
AAGTTTGCATGGATTTGAATGACACTTTCCAGAATACAAGGAGACCACTGAGGAATCGATCAAGGAAAC
TGAGAGATTTGTGTCAGAAATGCTCCAAAAGAAGTATTCTAGAGTGAAGCCCATAGTGACACCACGTTTT
TCCTCTCCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTGATTTGCACATTC
AGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAACTTATACCCAGTTATAAAAACTA
CACATCTGTGTATGATAAAAAAATCTTTTGACAAATAAGACAGTGATGGCACACGGCTGCTACCTCTCT
GCAGAAGAACTGAACGATTTCCATGAACGAGGAGCATCCATCGCACACTGCCAATTCTAATTTATCGC
TCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCTGGGTACAGACGT
GGCTGGTGGCTATTCATATTCATGCTTGATGCAATCAGAAGAGCAGTGATGGTTCCAATATCCTTTTA
ATTAATAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTTTGGAGGAAGCC
AAGCCCTGGGCTGGATGGTGAAGTTGAACTTTGAAGTGGCAAGGAATTTGATGCCATCCTGATCAA
CCCCAAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATTTCTGAGGCTGTT
ATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTTATGTGGCGGAAAGCAGGTGG
TTCCGTTTTCCAGCTCAGTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232619 representing NM_001242507
 Red=Cloning site Green=Tags(s)

MPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNIIDFAEEVYTRVVRRTLKNGTTTACYFAT
 IHTDSSLLADITDKFGQRAFVGKVCMDLNDTFPEYKETTESIKETERFVSEMLQKNYSRVKPIVTPRF
 SLSCSETLMGELGNIKTRDLHIQSHISENRDEVAVKNLPSYKNTSVYDKNNLLTNKTVMAHGCVLS
 AEELNVFHERGASIAHCPNSNLSLSSGFLNVLEVLKHEVKIGLGTDVAGGYSYMLDAIRRAVMVSNILL
 INKVNEKSLTLKEVFRLATLGGSQLGLDGEIGNFEVGFKEFDAILINPKASDSPIDLFGDFFGDISEAV
 IQKFLYLGDNRNIEEVYVGKQVVPFSSSV

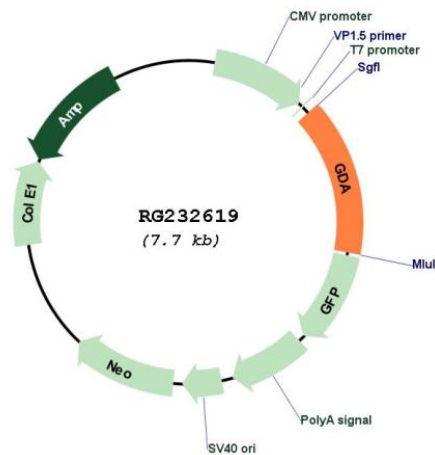
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242507

ORF Size:	1140 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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001242507.2 , NP_001229436.1
RefSeq Size:	5384 bp
RefSeq ORF:	1143 bp
Locus ID:	9615
UniProt ID:	Q9Y2T3
Cytogenetics:	9q21.13
Protein Pathways:	Metabolic pathways, Purine metabolism
Gene Summary:	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]