

Product datasheet for **RG208771**

GDA (NM_004293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDA (NM_004293) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG208771 representing NM_004293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGCCGCTCAGATGCCGCCCTGGCGCACATCTCCGAGGGACGTTTCGTCCTCCACCTGGACCT
 GCCCATGGAGGTGCTGCGGGATCACCTCCTCGGCGTGAGCGACAGCGGCAAAATAGTGTTTTAGAAAG
 AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAACTGAGCCAC
 CATGAGTCTTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTA
 GCATAGACCTGCCACTCTGGAGTGGTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACAT
 CGACTTTGCAGAAGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGT
 TACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGG
 CATTTGTGGGCAAAGTTGCATGGATTTGAATGACACTTTTCCAGAATAAAGGAGACCAGTGGGAATC
 GATCAAGGAAACTGAGAGATTTGTGTCAGAAATGCTCCAAAAGAATATTCTAGAGTGAAGCCCATAGTG
 ACACCACGTTTTTCCCTCTCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTG
 ATTTGCACATTCAGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAAACTTATACCCAG
 TTATAAAACTACACATCTGTGTATGATAAAAACAATCTTTTGACAAATAAGACAGTGTGGCACACGGC
 TGCTACCTCTCTGCAGAAGAAGTGAACGATTTCCATGAACGAGGAGCATCCATCGCACACTGTCCCAATT
 CTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCT
 GGGTACAGACGTGGCTGGTGGCTATTCAATCCATGCTTGATGCAATCAGAAGAGCAGTGTGGTTTCC
 AATATCCTTTTAATAAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTC
 TTGGAGGAAGCCAAGCCCTGGGGCTGGATGGTGAGATTGAAAACCTTGAAGTGGGCAAGGAATTTGATGC
 CATCCTGATCAACCCCAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATT
 TCTGAGGCTGTTATCCAGAAGTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTATGTGGGCG
 GAAAGCAGGTGGTTCCGTTTTCCAGCTCAGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208771 representing NM_004293
 Red=Cloning site Green=Tags(s)

MCAAQMPPLAHIFRGTFFVHSTWTCPEVLRDHLGVS DSGKIVFLEEASQQEKLAKEWCFKPEIRELSH
 HEFFMPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFAEEVYTRVRRRLKNGTTTAC
 YFATIHTDSSLLLADITDKFGQRA FVGKVCMDLNDTFPEYKETTEESIKETERFVSEMLQKNYSRVKPIV
 TPRFSLSCSETLMGELGNI AKTRDLHIQSHISENRDEVEAVKNL YPSYKNYTSVYDKNLLTNKTVMAHG
 CYLSAEELNVFHERGASIAHCPNSNL SSSGFLNVLEVLKHEVKIGL GTDVAGGYSYMLDAIRRAVMVS
 NILLINKVNEKSLTLKEVFR LATLGGSQLGLDGEIGNFEVKG EFDAILINPKASDSPIDLFGDFFGDI
 SEAVIQKFLYLGD DRNIEEVYVGKQVVPFSSSV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_004293

ORF Size: 1362 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:

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_004293.5](#)

RefSeq Size: 5430 bp

RefSeq ORF: 1365 bp

Locus ID: 9615

UniProt ID: [Q9Y2T3](#)

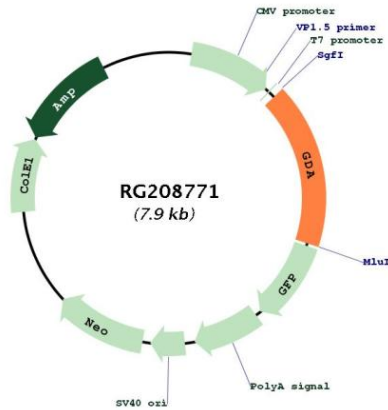
Cytogenetics: 9q21.13

Domains: Amidohydro_1

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]

Product images:



Circular map for RG208771