

Product datasheet for **RC208771**

GDA (NM_004293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDA (NM_004293) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GDA
Synonyms:	CYPIN; GAH; GUANASE; NEDASIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208771 representing NM_004293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGTGCCGCTCAGATGCCGCCCTGGCGCACATCTCCGAGGGACGTTCTGCTCACTCCACCTGGACCT
 GCCCATGGAGGTGCTGCGGGATCACCTCTCGCGTGAGCGACAGCGGCAAAATAGTGTGTTTAGAAGA
 AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAAGTACAGCCAC
 CATGAGTCTTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTA
 GCATAGACCTGCCACTCTGGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACAT
 CGACTTTGCAGAAGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGT
 TACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTGCCGACATTACAGATAAATTTGGACAGCGGG
 CATTTGTGGGCAAAGTTGCATGGATTTGAATGACACTTTCCAGAATAAAGGAGACCAGTGGGAATC
 GATCAAGGAAACTGAGAGATTTGTGTCAGAAATGCTCCAAAAGAATTTCTAGAGTGAAGCCCATAGTG
 ACACCACGTTTTCCCTCTCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTG
 ATTTGCACATTCAGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAACTTATACCCAG
 TTATAAAACTACACATCTGTGTATGATAAAAACAATCTTTTGACAAATAAGACAGTGTGGCACACGGC
 TGCTACCTCTCTGCAGAAGAAGTGAACGATTCATGAACGAGGAGCATCCATCGCACACTGTCCCAATT
 CTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCT
 GGGTACAGACGTGGCTGGTGGCTATTCATATCCATGCTTGATGCAATCAGAAGAGCAGTGTGGTTTCC
 AATATCCTTTTAAATTAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTC
 TTGGAGGAAGCCAAGCCCTGGGGCTGGATGGTGAGATTGGAACCTTTGAAGTGGGCAAGGAATTTGATGC
 CATCCTGATCAACCCCAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATT
 TCTGAGGCTGTTATCCAGAAGTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTATGTGGCGC
 GAAAGCAGGTGGTTCCGTTTTCCAGCTCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208771 representing NM_004293
 Red=Cloning site Green=Tags(s)

MCAAQMPPLAHIFRGTFFVHSTWTCPEVLRDHLGVSDSGKIVFLEEASQQEKLAKEWCFKPEIRELSH
 HEFFMPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DFAEEVYTRVRRRLKNGTTTAC
 YFATIHTDSSLLADITDKFGQRAFGKVCMDLNDTFPEYKETTEESIKETERFVSEMLQKNYSRVKPIV
 TPRFSLSCSETLMGELGNIKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVYDKNLLTNKTVMAHG
 CYLSAEELNVFHERGASIAHCPNSNLSLSSGFLNVLEVLKHEVKIGLGTVDVAGGYSMLDAIRRAVMVS
 NILLINKVNEKSLTLKEVFRLATLGGSQLGLDGEIGNFEVKGFEFDAILINPKASDSPIDLFGDFFDGI
 SEAVIQKFLYLGDNRNIEEVYVGGKQVVPFSSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4227_e01.zip

Restriction Sites:

Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004293.5](#)

RefSeq Size: 5430 bp

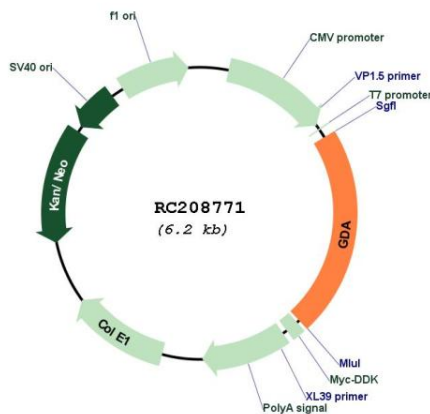
RefSeq ORF: 1365 bp

Locus ID: 9615

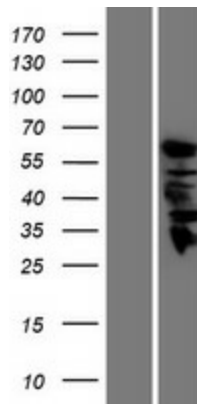
UniProt ID: [Q9Y2T3](#)
Cytogenetics: 9q21.13
Domains: Amidohydro_1
Protein Pathways: Metabolic pathways, Purine metabolism
MW: 50.8 kDa

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]

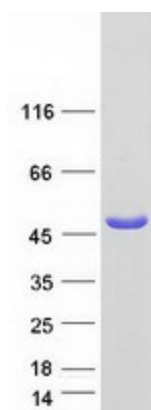
Product images:



Circular map for RC208771



Western blot validation of overexpression lysate (Cat# [LY418083]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208771 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GDA protein (Cat# [TP308771]). The protein was produced from HEK293T cells transfected with GDA cDNA clone (Cat# RC208771) using MegaTran 2.0 (Cat# [TT210002]).