

Product datasheet for **RC232804**

GDA (NM_001242505) Human Tagged ORF Clone

Product data:

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

>RC232804 representing NM_001242505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGTGCCGCTCAGATGCCGCCCTGGCGCACATCTCCGAGGGACGTTTCGCTCACTCCACCTGGACCT
 GCCCATGGAGGTGCTGCGGGATCACCTCTCGCGTGAGCGACAGCGGCAAAATAGTGTGTTTAGAAGA
 AGCATCTCAACAGGAAAACTGGCCAAAGAATGGTGCTTCAAGCCGTGTAAATAAGAGAAGTGGCCAC
 CATGAGTCTTTCATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTA
 GCATAGACCTGCCACTCTGGAGTGGCTGACCAAGTACACATTTCTGCAGAACACAGATTCCAGAACAT
 CGACTTTGCAGAAGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGT
 TACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTTGGACAGCGGG
 CATTTGTGGGCAAAGTTGCATGGATTTGAATGACACTTTCCAGAATACAAGGAGACCCTGAGGAATC
 GATCAAGGAAACTGAGAGATTTGTGTCAGAAATGCTCCAAAAGAATTTCTAGAGTGAAGCCCATAGTG
 ACACCACGTTTTTCCCTCTCTGCTCTGAGACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTG
 ATTTGCACATTCAGAGCCATATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAACTTATACCCAG
 TTATAAAACTACACATCTGTGTATGATAAAAACAATCTTTTGACAAATAAGACAGTGATGGCACACGGC
 TGCTACCTCTCTGCAGAAGAAGTGAACGATTTCCATGAACGAGGAGCATCCATCGCACACTGTCCCAATT
 CTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCTGAAACATGAAGTCAAGATAGGGCT
 GGGTACAGACGTGGCTGGTGGCTATTCAATCCATGCTTGATGCAATCAGAAGAGCAGTGATGGTTTCC
 AATATCCTTTTAATTAATAAGGTAATGAGAAAAGCCTCACCTCAAAGAAGTCTTCAGACTAGCTACTC
 TTGGAGGAAGCCAAGCCCTGGGCTGGATGGTGAAGTTGAAAACCTTTGAAGTGGGCAAGGAATTTGATGC
 CATCCTGATCAACCCCAAGCATCCGACTCTCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATT
 TCTGAGGCTGTTATCCAGAAGTTCTCTATCTAGGAGATGATCGAAATATTGAAGAGTTTATGTGGGCG
 GAAAGCAGGTGGTTCCGTTTTCCAGCTCAGTGAAGAAACAATTCACCTACCAGCCTCTCACCCATCC
 TCCACCATTTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232804 representing NM_001242505
 Red=Cloning site Green=Tags(s)

MCAAQMPPLAHIFRGTfVHSTWTCpMEVLRDHLlGVSDSGKIVfLEEASQqEKLAKewCFKpCEIRElSH
 HEFFMPGLVDTHIHASQYSFAGSSIDLPLEWLTKYTFPAEHRFQNI DF AEEVYTRVRRRLKNGTTTAC
 YFATIHTDSSLLADITDKFGQRAfVgKVCMDLNDTFPEYKETEESIKETERfVSEMLQKNYSRVKPIV
 TPRFSLSCSETLMGELGNIaKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVYDKNNLLTNKTVMAHG
 CYLSAEELNVFHERGASIAHCPNSNLSSGFLNVLEVLKHEVKIGLGTDVAGGYSYSMLDAIRRAVMVS
 NILLINKVNEKSLTLKEVFRLATLGGSQLGLDGEIGNFEVGKEFDAILINPKASDSPIDLFYGDFFGDI
 SEAVIQKFLYLGDDRNIEEVYVGKQVVPFSSSVKETIHLPASSPHPPFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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).

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_001242505.2](#), [NP_001229434.1](#)
RefSeq Size: 2096 bp

RefSeq ORF: 1416 bp

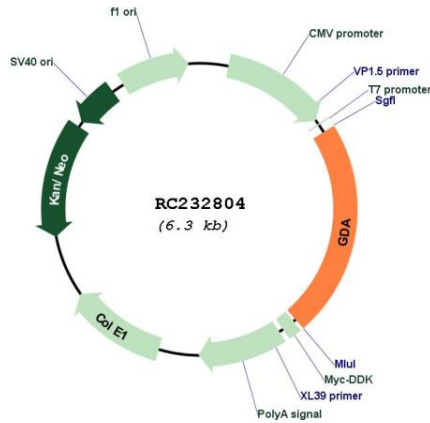
Locus ID: 9615

UniProt ID: [Q9Y2T3](#)

Cytogenetics: 9q21.13
Protein Pathways: Metabolic pathways, Purine metabolism
MW: 53.3 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 RC232804