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Product datasheet for SC111122

GDA (NM_004293) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDA (NM_004293) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDA
Synonyms:	CYPIN; GAH; GUANASE; NEDASIN
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF within SC111122 sequence for NM_004293 edited (data generated by NextGen Sequencing)
ATGTGTGCCGCTCAGATGCCGCCCCTGGCGCACATCTTCCGAGGGACGTTCGTCCACTCC
ACCTGGACCTGCCCCATGGAGGTGCTGCGGGATCACCTCCTCGGCGTGAGCGACAGCGGC
AAAATAGTGTTTTTAGAAGAAGCATCTCAACAGGAAAAACTGGCCAAAGAATGGTGCTTC
AAGCCGTGTGAAATAAGAGAACTGAGCCACCATGAGTTCTTCATGCCTGGGCTGGTTGAT
ACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTAGCATAGACCTGCCACTCTTG
GAGTGGCTGACCAAGTACACATTTCCTGCAGAACACAGATTCCAGAACATCGACTTTGCA
GAAGAAGTATATACCAGAGTTGTCAGGAGAACACTAAAGAATGGAACAACCACAGCTTGT
TACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTTGCCGACATTACAGATAAATTT
GGACAGCGGGCATTTGTGGGCAAAGTTTGCATGGATTTGAATGACACTTTTCCAGAATAC
AAGGAGACCACTGAGGAATCGATCAAGGAAACTGAGAGATTTGTGTCAGAAATGCTCCAA
AAGAACTATTCTAGAGTGAAGCCCATAGTGACACCACGTTTTTCCCTCTCCTGCTCTGAG
ACTTTGATGGGTGAACTGGGCAACATTGCTAAAACCCGTGATTTGCACATTCAGAGCCAT
ATAAGTGAAAATCGTGATGAAGTTGAAGCTGTGAAAAACTTATACCCCAGTTATAAAAAC
TACACATCTGTGTATGATAAAAACAATCTTTTGACAAATAAGACAGTGATGGCACACGGC
TGCTACCTCTCTGCAGAAGAACTGAACGTATTCCATGAACGAGGAGCATCCATCGCACAC
TGTCCCAATTCTAATTTATCGCTCAGCAGTGGATTTCTAAATGTGCTAGAAGTCCTGAAA
CATGAAGTCAAGATAGGGCTGGGTACAGACGTGGCTGGTGGCTATTCATATTCCATGCTT
GATGCAATCAGAAGAGCAGTGATGGTTTCCAATATCCTTTTAATTAATAAGGTAAATGAG
AAAAGCCTCACCCTCAAAGAAGTCTTCAGACTAGCTACTCTTGGAGGAAGCCAAGCCCTG
GGGCTGGATGGTGAGATTGGAAACTTTGAAGTGGGCAAGGAATTTGATGCCATCCTGATC
AACCCCAAAGCATCCGACTCTCCCATTGACCTGTTTTATGGGGACTTTTTTGGTGATATT
TCTGAGGCTGTTATCCAGAAGTTCCTCTATCTAGGAGATGATCGAAATATTGAAGAGGTT
TATGTGGGCGGAAAGCAGGTGGTTCCGTTTTCCAGCTCAGTGTAA

Clone variation with respect to NM_004293.3
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004293 unedited
GGCGGCCCGCGAATTCGCACGAGGCAGCCCCTGGGCGCGGCCTGCAGGGTACCGGCAACC
GCCCGGGTAAGCGGGGGCAGGACAAGGCCGGAGCCTGTGTCCGCCCGGCAGCCGCCCGCA
GCTGCAGAGAGTCCCGCTGCGTCTCCGCCGCGTGCGCCCTCCTCGACCAGCAGACCCGCG
CTGCGCTCCGCCGCTGACATGTGTGCCGCTCAGATGCCGCCCCTGGCGCACATCTTCCGA
GGGACGTTCGTCCACTCCACCTGGACCTGCCCCATGGAGGTGCTGCGGGATCACCTCCTC
GGCGTGAGCGACAGCGGCAAAATAGTGTTTTTAGAAGAAGCATCTCAACAGGAAAAACTG
GCCAAAGAATGGTGCTTCAAGCCGTGTGAAATAAGAGAACTGAGCCACCATGAGTTCTTC
ATGCCTGGGCTGGTTGATACACACATCCATGCCTCTCAGTATTCCTTTGCTGGAAGTAGC
ATAGACCTGCCACTCTTGGAGTGGCTGACCAAGTACACATTTCCTGCAGAACACAGATTC
CAGAACATCGACTTTGCAGAAGAAGTATATCCCAGAGTTGTCAGGAGAACACTAAAGAAT
GGAACAACCACAGCTTGTTACTTTGCAACAATTCACACTGACTCATCTCTGCTCCTTGCC
GACATTACAGATAAATTTGGACAGCGGGCATTTGTGGGCANAGTTTGCATGGATTTGAAT
GACACTTTTCCAGAATACANGGAGACCACTGGAGGAATCGATCAAGGAAACTGAGAGATT
TGTGTCAGAAATGCTNNCAAAGAACTATTCTAGAGTGAAAGCCATAGTGACACCACGTTN
TTCCCTCTCCTGCNTCTGAGACTTGATGGGTGAACTGGGGCACATTGCCTAAACCCGNTG
ATTTGCACATTCAGAGCCATATAGGTGAAAATCGTGATGAG
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_004293 unedited
GAAATCCTATGNNACCGCGGCCGCAATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTT
TTAAACACAAAGTCTCATTTATTTTTGTCTGAAGCACACAGGAGCTCACTCAGCACAATA
ACAGTAAGCGAATCATACAAATATTGAGAAAAAATGTTCCTATGAATACATACATGTATA
TTCTTAAGAGTAGCGATCAGGAGTTTAACAACAAATGTAAAGTGGTTTTCTCTAAAGAAT
GCTTTCTGACAGGCTTTTGGGTTGGAAATGGACAGGTAAATCACTGTCACATAACAGGTA
AGCTAAGAATAACTTCTGTTACCCAAGTCATTTGAACCCTGTGGACTGTGAAAGCCCTCT
TGGAATTTACATTTAATTCCATCATTGGTCTGGTTGACTTCCACATTTCACTAAATTTGG
ACAAGATCCACAAAGTAACTCCTCAACTCTCAGTCTTTCACACTCAGGTCTGTGGGAAGG
AAAGGCAGTGAGACCAGGTGTGAACACATGCACGGAGACCAATGTTAGGATTTTCTAACA
GTATCCTTCTGTTTCTGCACTTCCAAAGTCATACCTAAACTGGCTAGTATATCTGAAATT
GCTAACATCTCCTTGAAGCTGTCCAAAAAAAAAAAATTTTTTTCAACATTCTTAACATCC
AACAATTTAAAACCTTTCAAGTCTTGCCTANACACTTCTAATTTACCATTATAACTCACA
CCATTGCTTTTAAGCGTGTGAAATGTTCCAGCAATCCTCAACTTTTAAAATGGACAACAA
TGGAAAGATGTCTAAAAAGTCTTCCGAAGCATCCCAATTTTGGGATCTCTTCCTACGTTA
GCCCAAGGTTGAAATTGATACAATGGGGCCTTCCAACTTGGCCTTTTAAGCTCTCCCAAT
GTCTAAGTTTGGAGGGGG
```

Restriction Sites: NotI-NotI

ACCN: NM_004293

Insert Size: 5000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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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_004293.2, NP_004284.1
RefSeq Size:	5451 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] Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the C-terminus compared to isoform a.

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