

Product datasheet for **SC117251**

GATD3 (NM_004649) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATD3 (NM_004649) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATD3
Synonyms:	C21orf33; ES1; GATD3A; GT335; HES1; KNPH; KNPI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004649, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTGTGAGGGCCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTCACGTCCCTGTCCCCG
GCGGTCGGACGCCTTCCCAGCGCGCAGCCCTTCACCTCTCCGTGCCGCGCCCCGCGGCCAGGGTCGCGCT
GGTGCTGTCTGGATGCGGAGTCTACGATGGGACCGAGATCCACGAGGCCTCGGCGATCCTGGTGCACCTG
AGCCGTGGAGGGGCTGAAGTCCAGATCTTTGCTCCTGACGTCCCTCAGATGCACGTGATTGACCACCA
AGGGGCAGCCGTCCGAAGCGGAGAGCAGGAATGTTTTGACCGAGTCTGCGAGGATCGCCCGTGGCAAAT
CACAGACCTGGCCAACCTCAGTGCAGCCAACCATGATGCTGCCATCTTTCCAGGAGGCTTTGGAGCGGT
AAAAACCTGAGCACGTTTGCCGTGGACGGAAAGATTGCAAGGTGAATAAAGAAGTGGAGCGTGTCTGA
AGGAGTTCACCAGGCCGGAAGCCATCGGCTTGTGCTGCATTGCACCTGTCTCGCGCCAAGGTGCT
CAGAGGCGTCTGAGGTGACTGTGGGCCACGAGCAGGAGGAAGGTGGCAAGTGGCCTTATGCCGGGACCGCA
GAGGCCATCAAGGCCCTGGGTGCCAAGCACTGCGTGAAGGAAGTGGTCAAGCTCACGTGGACCAGAAAA
ACAAGGTGGTCACGACCCAGCCTTCATGTGCGAGACGGCACTCCACTACATCCATGATGGGATCGGAGC
CATGGTGAGGAAGGTGCTGGAACACTGGAAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004649 unedited
 GCATATTTGTATACGACTACTATAGGGCGGCCGGAATTCGCACGAGAACC GCAATGGCG
 GCTGTGAGGGCCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTACGTCCTGTCC
 CCCGGCGGTGGACGCCTTCCCAGCGCGCAGCCCTTCACTCTCCGTGCCGCGCCCCGCG
 GCCAGGGTCGCGCTGGTGTCTGGATGCGGAGTCTACGATGGGACCGAGATCCACGAG
 GCCTCGGCGATCCTGGTGCACCTGAGCCGTGGAGGGGTGAAGTCCAGATCTTTGCTCCT
 GACGTCCCTCAGATGCACGTGATTGACCACACCAAGGGGAGCCGTCCGAAGCGAGAGC
 AGGAATGTTTTGACCGAGTCTGCGAGGATCGCCGTGGCAAATCACAGACCTGGCCAAC
 CTAGTGACGCCAACCATGATGCTGCCATCTTTCCAGGAGGCTTTGGAGCGGCTAAAAAC
 CTGAGCACGTTTGCCGTGGACGGGAAAGATTGCAAGGTGAATAAAGAAGTGGAGCGTGTC
 CTGAAGGAGTTCCACCAGGCCGGGAAGCCATCGGCTTGTGCTGCATTGCACCTGTCCCTC
 GCGGCCAAGGTGCTCAAAGGCGTCGAGGTGACTGTGGGCCACGAGCAGGAGGAAGTGGC
 AAGTGGCCTTATGCNCGGACCGCAGAGGCCATCAAGGCCCTGGGTGCCAAGCACTGCGTG
 AAGGAAGTGGTGAAGCTCACGTGGACCCAGAAAACAGGGTGGTACGACCCAGCCTTC
 ATGTGCGAGACGGCACTCCACTACATCCATGATGNGATCGGAGCCATGGTGAGGAAAGG
 GCTGGAACCTCACTGNAAGTACGCGCATGGACGGGGCCAGCTAGGCGCCAGGACTTGG
 CCTCACCTCTGGGCTGAGAGCTGTCCGCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004649 unedited
 GGGGGGGGGGCANAANAGAANATATAACANAAGAATTTTGAGAAAGAAGTTTTTTTT
 TTTA
 AACCCCAACACTTTTTTCCCTTGGGACCCATTTGAAAGCTTTTGCCACACCTGAACC
 CAGGGGCTGGCACCAACGCTACCATTATCCCAAAGGGAAATCTGGGGGCTGAGGAAC
 TGCAATTTCCCTTTTTCTGAAAATTAATAAACTGAAACTAATTGAAAAACCTCACT
 GCCTTTCCTAACTCAAAAATTAATAAAGTTTAAATGGGGGTGGGGGAAATTGCCATTT
 TGGGAAGGGTTATTTTTGGGGCTACAGGGATTGCCTGCTTAAAAATCCCCTTACCC
 TGATTAACATAAAAGTCCCTTCAAAGTAAAAACCAACCTTTCAGGGGCCAAAAAGGGGG
 GATTTTCGGGTTTCTGAACAGGAGGGTTGCAAACCTAAAAATGTTTTCTTCAAAAAC
 TAACTAACCTGAAGTTTAAACCCCAACCGGAAAAATTTTTTTTTTTGGAAAACTGGC
 TGCAATTTGTTTTGGGACACAGGAGGCAAGTCCCTGGGGCAAAAAACAATTTGGCCCC
 TCGGCCTTTGTTGTGAAAGCACCCACCCCGCCAGGAAAAACATCCCCATGCACCT
 GGAGAAAATCCTCCTTAAAAAAAACCCCTGCAGGTTTCGGCAAAAAAAAATAAAGG
 GCCTGCCAAACTCCACCTGGATGGAAAGCACCCGACACCTTCTTAACCAAGGGGGAGG
 CCAATCTGGCCCTAATGGGCCCTACATGCGGTTAATTTCCAGGAGTCCCAACCC
 TTCTAACGGGTTCAACCAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_004649

Insert Size:

1790 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).

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_004649.4](#), [NP_004640.1](#)

RefSeq Size: 1668 bp

RefSeq ORF: 1668 bp

Locus ID: 8209

UniProt ID: [P0DPI2](#)

Cytogenetics: 21q22.3

Domains: DJ-1_Pfpl

Gene Summary: This gene encodes a potential mitochondrial protein that is a member of the DJ-1/Pfpl gene family. This protein is overexpressed in fetal Down syndrome brain. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2010]
Transcript Variant: This variant (1) encodes the longest isoform (1; also known as isoform 1alpha). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.