

Product datasheet for **SC107759**

GATD3 (NM_198155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATD3 (NM_198155) 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_198155, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTGTGAGGGCCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTCACGTCCCTGTCCCCG
GCGGTCGGACGCCTTCCCAGCGCGCAGCCCTTACCTCTCCGTGCCGCGCCCCGCGGCCAGGGTCGCGCT
GGTGTCTCTGGATGCGGAGTCTACGATGGGACCGAGATCCACGAGGCCTCGGCGATCCTGGTGCACCTG
AGCCGTGGAGGGGCTGAAGTCCAGATCTTTGCTCCTGACGTCCCTCAGATGCACGTGATTGACCACCA
AGGGGCAGCCGTCCGAAGGCGAGAGCAGGAATGTTTTGACCGAGTCTGCGAGGATCGCCCGTGGCAAAT
CACAGACCTGGCCAACCTCAGTGCAGCCAACCATGATGCTGCCATCTTCCAGGAGGCTTTGGAGCGCT
AAAAACCTCTTGTGCTGCATTGCACCTGTCTCGCGCCAAGGTGCTCAGAGGCGTCGAGGTGACTGTGG
GCCACGAGCAGGAGGAAGGTGGCAAGTGGCCTTATGCCGGGACCGCAGAGGCCATCAAGGCCTGGGTGC
CAAGCACTGCGTGAAGGAAGTGGTCAAGCTCACGTGGACCAGAAAAACAAGGTGGTCACGACCCCGCC
TTCATGTGCGAGACGGCACTCCACTACATCCATGATGGGATCGGAGCCATGGTGAGGAAGGTGCTGGAAC
TCACTGGAAAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_198155 unedited
 ATTTTGTAAATACGACTACTATAGAGGCGGCCGATTCCGGCACGAGGGTCCTCACC
 ATGGCGGCTGTGAGGGCCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTACGTCC
 CTGTCCCCCGGGTTCGGACGCCCTCCAGCGCGCAGCCCTTACCTCTCCGTGCCGCGC
 CCCGCGCCAGGGTTCGCGCTGGTGTCTGGATGCGGAGTCTACGATGGGACCGAGATC
 CACGAGGCCTCGCGCATCTGGTGCACCTGAGCCGTGGAGGGGCTGAAGTCCAGATCTTT
 GCTCCTGACGTCCCTCAGATGCACGTGATTGACCACACCAAGGGGCAGCCGTCGAAGGC
 GAGAGCAGGAATGTTTTGACCGAGTCTGCGAGGATCGCCCGTGGCAAAATCACAGACCTG
 GCCAACCTCAGTGCAGCCAACCATGATGCTGCCATCTTTCCAGGAGGCTTTGGAGCGCT
 AAAAACTCTTGTGCTGCATTGCACCTGTCTCGCGGCCAAGGTGCTCAGAGGCGTCGAG
 GTGACTGTGGCCACGAGCAGGAGGAAGGTGGCAAGTGGCCTTATGCCGGGACCGCAGAG
 GCCATCAAGGCCCTGGTGCCAAGCACTGCGTGAAGGAAGTGGTGAAGCTCACGTGGAC
 CAGAAAAACAGGGTGGTACGACCCAGCCTTCATGTGCGAGACGGCACTCCACTACATC
 CATGATGGGATCGGAGCCATGGTGAAGGAGTGCNTGNACTCACTGGANAGTGACGCGCA
 TGGACGGGGCCCCAGCTAGCGCCAGACTTGGCCTCACCTCTGGGCTGAGAGCTGTCGG
 CTGCTTTCCATTAGCTGGGAGTCTGGNCAGCCCTTTTTTTTTTTNCTTAGNCGAAACC
 TGCAGCGTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_198155 unedited
 CGGACACTTATTCTCCCTCGGNCGCATCTGCAAGCTTCTGGCCACACCTGAACCCACGG
 CTCTGGCACCAACGCTACCATCACTCCCANAGGTCAATCCTGGGGGCTGAGGAGCTGCA
 ATTTCCCTTTCTCTGAAAATTAAGAGAACTGAGACTAATTGAAGAAACCTCACTGCCA
 TTCTCACTCAGCAGTCTCAGCAGTCTGAAATGTGGCTGTGGGAAGTTGCCATTTTGGG
 AAGGCGTTTATTCTCTGCGGCTACAGGGATTGCCTGCTTTAGAAATCCCTTACGCTGAT
 TAACTCAAAAGTCCCTTCAAGTCAAGAACCAACCTTTTATGGTCCATAAATGTGGTATT
 TCTGGTTTCTGATCAGGAGGCTTGCAAACCTAAAAATGTTCTTCTTCCAAAACTAAC
 TAACCTGAAGTATAAAACCTCAGACAGCAGAAATTTCTATTTCTGGAAAAGCTGGCTGCG
 ATTTGTTTTTGGGACACAGTGAAGCAAGTCCCTGTGGCAGAGAACGAATTGGCCCTCGG
 CCTCTGTATGTGAGAGCAGCCAGCCACACCCAGGAAGAAACATCCCATGCACTGCAT
 CACATCCTTCTTAGATAGAGAACGCCTGCCGGCCTCGGCAAGATAAAAAACAAAAGGCC
 CTGCCAGACTCCCTACTGGATGGAAAGCAGCCGACAGCTCCTTAGCCTGAGGGTGAGGCC
 AAGTCTGGCGCCTAGCTGGGCCCGTCTTGGCGTTACTTTCCAATGAGTTTACAGACC
 TTTCCNACCACTGGCCCCGATCCCATATGGATGTATTGGAGTGGCGTCTCCCCATGAAG
 GCTGAGGCCGCGACCCCTTGTTTTTTTGGCCCGTGAAGCTTTCACACTCTTTCACCCAC
 GTTTGTCCCCAAGGCTGAAGGGTTCGCGGCCCATGTATACGCTTTGCCACCTTCTCAT
 GTTCGGGCCACAGAACTTTCAGCCTCTGGAT

Restriction Sites:

NotI-NotI

ACCN:

NM_198155

Insert Size:

1680 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_198155.1](#), [NP_937798.1](#)

RefSeq Size: 1614 bp

RefSeq ORF: 714 bp

Locus ID: 8209

UniProt ID: [A0A0B4J2D5](#)

Cytogenetics: 21q22.3

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 (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2; also known as isoform 1beta), compared to isoform 1.