

Product datasheet for **RG223892**

GATD3 (NM_198155) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GATD3
Synonyms:	C2lorf33; ESI; GATD3A; GT335; HESI; KNPH; KNPI
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223892 representing NM_198155
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCTGTGAGGGCCCTGGTGGCCTCGAGGCTCGCTGCGGCATCTGCATTACGTCCCTGTCCCCCG
GCGGTGCGACGCCTTCCAGCGCGCAGCCCTTCACCTCTCCGTGCCGCGCCCCGCGGCCAGGGTCGCGCT
GGTGCTGTCTGGATGCGGAGTCTACGATGGGACCGAGATCCACGAGGCCTCGGCGATCCTGGTGACCTG
AGCCGTGGAGGGGCTGAAGTCCAGATCTTTGCTCCTGACGTCCCTCAGATGCACGTGATTGACCACCA
AGGGGCAGCCGTCCGAAGGCGAGAGCAGGAATGTTTTGACCGAGTCTGCGAGGATCGCCCGTGCCAAAAT
CACAGACCTGGCCAACCTCAGTGCAGCCAACCATGATGCTGCCATCTTTCCAGGAGGCTTTGGAGCGGCT
AAAAACCTCTTGTGCTGATTGCACCTGTCCTCGCGGCCAAGGTGCTCAGAGGCGTCGAGGTGACTGTGG
GCCACGAGCAGGAGGAAGGTGGCAAGTGGCCTTATGCCGGGACCGCAGAGGCCATCAAGGCCCTGGGTGC
CAAGCACTGCGTGAAGGAAGTGGTGAAGCTCACGTGGACCAGAAAAACAAGGTGGTCACGACCCAGCC
TTCATGTGCGAGACGGCACTCCACTACATCCATGATGGGATCGGAGCCATGGTGAGGAAGGTGCTGGAAC
TCACTGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



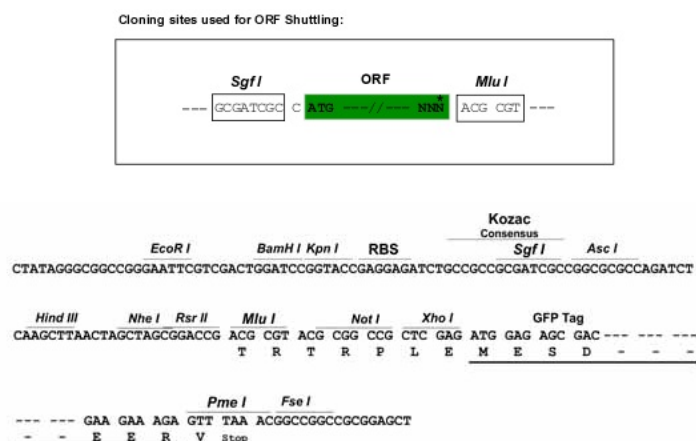
Protein Sequence: >RG223892 representing NM_198155
Red=Cloning site Green=Tags(s)

MAAVRALVASRLAAASAF^TSLSPGGRTPSQRAALHLVSPRPAARVALVLSGCGVYDGTETHEASAILVHL
SRGGAEVQIFAPDVPQMHVIDHTKGQPSGESRNVLTESARIARGKITDLANLSAANHDAAI^FPGGGF^{GAA}
KNLLCCIAPVLA^{AK}VL^{RG}VEVTVGHEQE^{EGG}KW^{PY}AGTAEI^KALGAKHC^VKEVVEAHVDQKNKVVTTPA
FMCETALHYIH^{DG}IGAMVRKYLELTGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198155

ORF Size: 711 bp

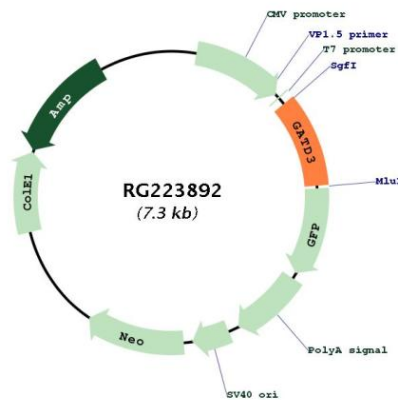
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_198155.3</u>
RefSeq Size:	1614 bp
RefSeq ORF:	714 bp
Locus ID:	8209
UniProt ID:	<u>A0A0B4J2D5</u>
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]

Product images:



Circular map for RG223892