

Product datasheet for **RG202984**

Ocular development associated gene (GATAD1) (NM_021167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ocular development associated gene (GATAD1) (NM_021167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ocular development associated gene
Synonyms:	CMD2B; ODAG; RG083M05.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202984 representing NM_021167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTGGCCTGAAGCCACCTGCAGCGTATGCAAGACCACGTCGTCTCCATGTGGAAGAAGGGAG
CGCAGGGGGAGATCCTCTGCCATCATTGCACTGGCCGGGGCGGCGGGCAGCGGGGGCGCAGGCTCGGG
GGCGGCTGGAGGGACTGGGGCAGCGGGCGGGCGGCTTCGGCGCGGCGACCTTCGCCAGCACCTCCGCC
ACCCCTCCGAGACAAACGGGGCGGGGGCGGCAAGCAGAGTAAGCAGGAAATTCACAGGAGGTCTGCTC
GGCTCAGAAACACTAAATACAAATCTGCTCCGGCTGCTGAAAAGAAAGTCTCCACCAAAGAAAAGGGAG
AAGACATATATTTAAATTGAAAAATCCCATCAAAGCTCCTGAGTCAGTTTCCACTATAATCACTGCAGAA
TCAATCTTCTACAAGGGAGTATATTACCAAATGGTGATGTTGTTTCTGTGATTGATGAACAAGATGGAA
AGCCCTACTATGCTCAAATCAGAGGTTTTATCCAGGACCAGTATTGCGAGAAGAGTGCAGCACTGACGTG
GCTCATTCCCTACCTCTCTAGCCCCAGAGACCAATTTGATCCCGCCTCCTATATCATAGGGCCAGAGGAA
GATCTTCAAGGAAGATGGAATACTTGGAAATTTGTTTGTGCATGCACCTTCTGAGTATTTCAAGTCACGGT
CATCACCATTTCCACAGTTCACCAGACCAGAGAAGGGCTACATATGGACTCATGTTGGGCTACTCC
TGCAATAACAATTAAGGAATCAGTTGCCAACCATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202984 representing NM_021167
 Red=Cloning site Green=Tags(s)

MPLGLKPTCSVCKTTSSSMWKKGAQGEILCHHCTGRGGAGSGGAGSGAAGGTGGSGGGGFGAATFASTSA
 TPPQSNNGGGGKQSKQEIHRRSARLRNTKYKSAPAAEKKVSTKKGRRHIFKLNPIKAPESVSTIITAE
 SIFYKGVVYQIGDVVSVIDEQDGKPYAQIRGFIQDQYCEKSAALTWLIPTLSSPRDQFDPASYIIGPEE
 DLPRKMEYLEFVCHAPSEYFKSRSSPFPVTRPEKGYIWHVGPPTAITIKESVANHL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_021167

ORF Size: 807 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_021167.5](#)

RefSeq Size: 3955 bp

RefSeq ORF: 810 bp

Locus ID: 57798

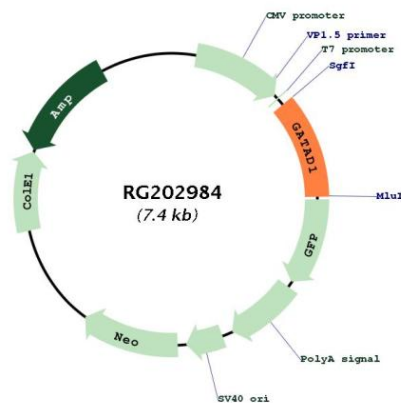
UniProt ID: [Q8WUU5](#)

Cytogenetics: 7q21.2

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene contains a zinc finger at the N-terminus, and is thought to bind to a histone modification site that regulates gene expression. Mutations in this gene have been associated with autosomal recessive dilated cardiomyopathy. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RG202984