

Product datasheet for **RG201826**

GOT2 (NM_002080) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GOT2 (NM_002080) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GOT2
Synonyms:	DEE82; KAT4; KATIV; KYAT4; mitAAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201826 representing NM_002080 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGCTGCACTCCGGCCGCGTCTCCCCGGGATCGCCGCCCTTCCACCCGGGCCTCGCCGCCG
CGGCTCTGCCAGAGCCAGCTCTGGTGGACCCATGTGGAATGGGACCTCCAGATCCCATTCTGGGAGT
CACTGAAGCCTTAAGAGGGACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGAT
AATGGAAGCCTTACGTTCTGCCTAGCGTCCGCAAGGCAGAGGCCAGATTGCCGCAAAAAATTTGGACA
AGGAATACCTGCCATTGGGGACTGGTGAATTTTGAAGGCATCTGCAGAAGTACCCCTGGGTGAGAA
CAGCGAAGTCTTGAAGAGTGGCCGGTTTGTCACTGTGCAGACCATTTCTGGAAGTGGAGCCTTAAGGATC
GGAGCCAGTTTTCTGCAAGATTTTTAAGTTCAGCCGAGATGTCTTTCTGCCAAACCAACCTGGGGAA
ACCACACACCCATCTTACGGGATGCTGGCATGCAGCTACAAGTTATCGGTATTATGACCCCAAGACTTG
CGGTTTTGACTTCACAGGCGCTGTGGAGGATATTTCAAAAATACCAGAGCAGAGTGTCTTCTTCTGCAT
GCCTGCGCCACAATCCCACGGGAGTGGACCCGCTCCGGAACAGTGAAGGAAATAGCAACAGTGGTGA
AGAAAAGGAATCTTTGCGTCTTTGACATGGCCTACCAAGGCTTTGCCAGTGGTATGGTGATAAGGA
TGCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGCCTCTGCCAATCATATGCCAAGAAC
ATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATGCGGATGAAGCCAAAAGGG
TAGAGTCACAGTTGAAGATCTTGATCCGTCCTATGATTCCAACCTCCCCTCAATGGGGCCCGGATTGC
TGCTGCCATTCTGAACACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAGTGCATGGCTGACCCG
ATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAACACA
TCACCGACCAAATTGGCATGTTCTGTTTACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGA
GTTCTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGTAC
CTTGCCCATGCCATTCACAGGCCACCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201826 representing NM_002080
 Red=Cloning site Green=Tags(s)

MALLHSGRVLPGIAAAFHPGLAAAASARASSWTHVEMGPPDPILGVTEAFKRDTNSKMMNLGVGAYRDD
 NGKPYVLPsvrkAEaQIAAKNLdKEYLPIGGLAEfCKASAEALGENSEVLKSGRFVTVQTIsgtGALRI
 GASFLQRfFKFSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYDPKTCGFDFtGAVEDISKIPEQSVLLLH
 ACAHNPTGVDPRPEQWKEIATVVKRNLFAFFDMAYQGFASGDGDKDAWAVRHfIEQGINVCLCQSYAKN
 MGLYGERVGAFTMVCKDADEAKRVESQLKILIRPMYSNPPLNGARIAAAAILNTPDLRKQWLQEVKVMADR
 IIGMRTQLVSNLKKEGSTHNWQHITDQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGY
 LAHAIHQATK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002080

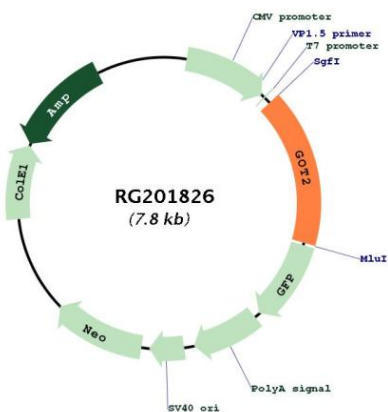
ORF Size: 1290 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_002080.2 , NP_002071.2
RefSeq Size:	2488 bp
RefSeq ORF:	1293 bp
Locus ID:	2806
UniProt ID:	P00505
Cytogenetics:	16q21
Domains:	aminotran_1_2
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and inner-membrane mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

Product images:



Circular map for RG201826