

## Product datasheet for **RR207896**

### **Tdo2 (NM\_022403) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tdo2 (NM_022403) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tdo2
Synonyms:	Tdo; TO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207896 representing NM_022403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGGTGCCCATTTTCAGGAAACAGTGTAGGATATACTTTGAAAACTTATCTATGGAAGACAATG  
AAGAAGACGGAGCTCAAACCTGGTGTAAACAGAGCCAGCAAAGGAGGACTTATCTATGGGGACTACTTGCA  
GTTGGAGAAGATTTTGAATGCACAAGAAGTCAAAGTCAAAGGGAATAAAATCCACGACGAGCAC  
CTCTTTATTATAACTCACCAAGCTTATGAAGTGGTTTAAACAAATTCTCTGGGAAGTCTGATTCTGTT  
GTGAGATTTTTCAAATGGCCATGTCAGGGATGAGAGGAACATGCTCAAGGTGATGACTCGGATGCACCG  
TGTGGTGGTCATCTTCAAGCTCCTGGTACAGCAGTTCTCGGTTCTGGAAACAATGACTGCCTTGGACTTC  
AATGACTTCAGAGAGTACCTGTCTCCAGCATCAGGCTTCCAGAGTCTTCAAGTCCGGCTGTAGAAAATA  
AGATAGGTGTTCTTCAAGCTTGGAGTCCCTTACAACAGGAAACACTATCGTGATAACTTTGAAGGAGA  
CTACAATGAGCTGCTGCTGAAATCGGAGCAGGAGCAGACGCTATTGCAGCTGGTGGAGGCATGGCTGGAA  
CGCACACCTGGCTTAGAGCCACATGGATTCAATTTCTGGGAAAGTTTGAAAAAATATCTTGAAGGGTC  
TGAAGAGGAGTTCCTAAAGATTCAGGCGAAAAAGGACTCTGAAGAAAAAGGGAACAGATGGCAGAGTT  
CCGGAAGCAGAAAGAGGTGCTGCTGCTTGTTCGATGAGAAGCGTCATGACTACCTTCTGAGTAAAGGT  
GAACGACGACTGCATACCGTGCCTCCAGGAGCACTGATGATATTTTTACAGGGAGGAGCCTCGAT  
TCCAGGTCCCTTTCCAGTTGCTGACCTCACTTATGGACATTGACACACTCATGACCAAATGGAGATATAA  
TCATGTGTGCATGGTGCACAGGATGCTAGGCAGCAAGGCTGGCACTGGGGATCCTCAGGCTATTATTAT  
CTGCGCTCAACTGTGAGCGACAGGTACAAGGTGTTCTGGATTTATTTAACCTCTCATCGTACCTGGTTC  
CCCAGACTGGATACCAAAGATGAATCCGATCATTACAAGTTCTTTACACAGCTGAGTACAGCGACAG  
CTCCTACTTCAGCAGCGATGAATCAGAT

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207896 representing NM\_022403  
Red=Cloning site Green=Tags(s)

MSGCPFSGNSVGYTLKNLSMEDNEEDGAQTGVNRASKGGLIYGDYLQLEKILNAQELQSEIKGNKIHDEH  
 LFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVMTRMHRVVVIFKLLVQQFSVLETMTALDF  
 NDFREYLSPASGFQSLQFRLLLENKIGVLQSLRVPYNRKHYRDNFEGDYNELLKSEQETLLQLVEAWLE  
 RTPGLEPHGFNFWGKFEKNILKGLEEEFLKIQAKKDSEEKQMAEFRKQKEVLLCLFDEKRHDYLLSKG  
 ERRLSYRALQGALMIYFYREPRFQVPFQLLTSLMDIDLMTKWRYNHVCMVHRMLGSKAGTGGSSGYYY  
 LRSTVSDRYKVFVDL FNLSSYL VPRHWIPKMNP I IHKFLYTAEYSDSSYFSSDES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3203\\_g03.zip](https://cdn.origene.com/chromatograms/ja3203_g03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



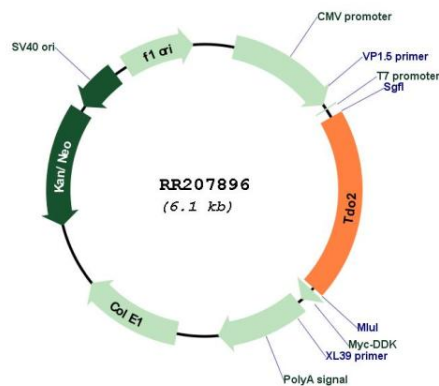
**ACCN:** NM\_022403

**ORF Size:** 1218 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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022403.2</a> , <a href="#">NP_071798.1</a>
<b>RefSeq Size:</b>	1687 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	64206
<b>UniProt ID:</b>	<a href="#">P21643</a>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	47.9 kDa
<b>Gene Summary:</b>	rate-limiting enzyme in the catabolism of tryptophan [RGD, Feb 2006]

**Product images:**

Circular map for RR207896