

## Product datasheet for MR206377

### Tdo2 (NM\_019911) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tdo2 (NM_019911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tdo2
Synonyms:	AA407491; chky; TDO; TO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206377 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGGTGCCGTTTGCAGGAAACAGTGTAGGATACACTTTGAAAAACGTATCTATGGAGGACAATG  
AAGAAGACAGAGCTCAAACCTGGTAAACAGAGCCAGCAAAGGAGGACTTATCTATGGCAATTACTTGCA  
GTTGGAAAAGATTTTGAATGCGCAAGAAGTTCAGAGTGAAGTAAAAGGGAACAAAATCCATGACGAGCAC  
CTATTCATCATAACTCATCAAGCTTATGAAGTTCAGAGTGAAGTAAAAGGGAACAAAATCCATGACGAGCAC  
GTGAAATCTTCCAAAATGCCATGTCAGGGATGAGAGGAACATGCTCAAGGTGATAGCTCGGATGCATCG  
TGTGGTGGTCATCTTCAAGCTCCTGGTACAGCAGTTCTCGGTTCTGGAAACAATGACTGCTTTGGACTTC  
AATGACTTCAGAGAATACCTGTCTCCAGCATCAGGCTTCCAGAGTCTACAGTTCGGCTGCCTGGAAAATA  
AGATTGGTGTCTTTCAGAGCTTGAGAGTCCCTTACAACAGGAAACACTATCGTGATAACTTTGGAGGAGA  
CTACAATGAGCTGTTGCTGAAATCAGAGCAGGAGCAGACGCTGTTGCAGCTGGTGGAGGCATGGCTGGAA  
AGAACACCTGGTTTAGAGCCAAATGGATTTAATTTCTGGGGAAAGTTTGAAAAAAATATCTTGAAGGCC  
TGAAGAAGAATTTCTAAGGATTCAGGCTAAAACCGACTCTGAAGAAAAAGGGAACAGATGGCAGAGTT  
CCGGAAGCAGAAGGAGGTGCTGCTGCTTGTGATGAGAAGCGTCATGACTACCTTCTGAGTAAAGGT  
GAACGAGACTGTCATACCGTGCACTCCAGGGAGCACTGATGATATTTTTACAGGGAGGAGCCTCGAT  
TCCAGGTCCCTTCCAGCTGCTGACCTCACTTATGGACATTGACACGCTCATGACCAAATGGAGATATAA  
TCATGTGTGCATGGTGCACAGAATGCTGGGCACCAAGGCTGGCACTGGGGATCCTCAGGCTATCATTAC  
CTGCGTTCAACTGTGAGCGACAGGTACAAGTTTTTGTGGATTTATTTAACCTCTCAACATATCTGGTTC  
CCAGACTGGGTACCAAAGATGAATCCGATCATTACAAATTCCTTTACACAGCCGAGTACAGTACAGC  
CTCTTACTTCAGCAGCGATGAATCGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206377 protein sequence  
Red=Cloning site Green=Tags(s)

MSGCPFAGNSVGYTLKNVSMEDNEEDRAQTGVNRASKGGLIYGNYLQLEKILNAQELQSEVKGKNIHDEH  
 LFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVIARMHRVVVIFKLLVQQFVLETMTALDF  
 NDFREYLSPASGFQSLQFRLLLENKIGVLQSLRVPYNRKHYRDNFGGDYNELLKSEQEQTLLQLVEAWLE  
 RTPGLEPNGFNFWGKFEKNILKGLEEEFLRIQAKTDSEEKEEQMAEFRKQKEVLLCLFDEKRHDYLLSKG  
 ERRLSYRALQGALMIYFYREEPRFQVPFQLL TSLMDIDLMTKWRYNHVCMVHRMLGKAGTGGSSGYHY  
 LRSTVSDRYKVFVDL FNLSTYL VPRHWVPMNP I IHKFLYTAEYSDSSYFSSDES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_019911

**ORF Size:** 1221 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\\_019911.2](#), [NP\\_064295.2](#)

**RefSeq Size:** 1646 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 56720

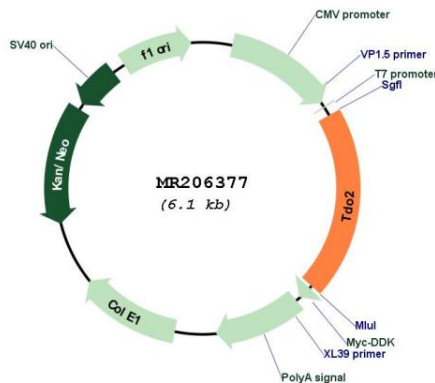
**UniProt ID:** [P48776](#)

**Cytogenetics:** 3 E3

**MW:** 47.8 kDa

**Gene Summary:** Heme-dependent dioxygenase that catalyzes the oxidative cleavage of the L-tryptophan (L-Trp) pyrrole ring and converts L-tryptophan to N-formyl-L-kynurenine. Catalyzes the oxidative cleavage of the indole moiety.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206377