

Product datasheet for **MG206377**

Tdo2 (NM_019911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tdo2 (NM_019911) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tdo2
Synonyms:	AA407491; chky; TDO; TO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206377 representing NM_019911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGGTGCCGTTTGCAGGAAACAGTGTAGGATACACTTTGAAAAACGTATCTATGGAGGACAATG
AAGAAGACAGAGCTCAAACCTGGTGTAAACAGAGCCAGCAAAGGAGGACTTATCTATGGCAATTACTTGCA
GTTGGAAAAGATTTTGAATGCGCAAGAAGTTCAGAGTGAAGTAAAAGGGAACAAAATCCATGACGAGCAC
CTATTCATCATAACTCATCAAGCTTATGAAGTCTGGTTTAAACAAATCCTCTGGGAAGTACTGATCTGTT
GTGAAATCTTCCAAAATGGCCATGTCAGGGATGAGAGGAACATGCTCAAGGTGATAGCTCGGATGCATCG
TGTGGTGGTCATCTTCAAGCTCCTGGTACAGCAGTTCTCGGTTCTGGAAACAATGACTGCTTTGGACTTC
AATGACTTCAGAGAATACCTGTCTCCAGCATCAGGCTTCCAGAGTCTACAGTTCGGCTGCTGGAAAATA
AGATTGGTGTCTTTCAGAGCTTGAGAGTCCCTTACAACAGGAAACACTATCGTGATAACTTTGGAGGAGA
CTACAATGAGCTGTTGCTGAAATCAGAGCAGGAGCAGACGCTGTTGCAGCTGGTGGAGGCATGGCTGGAA
AGAACACCTGGTTTAGAGCCAAATGGATTTAATTTCTGGGGAAAGTTTGAAAAAAATATCTTGAAGGCC
TGAAGAAGAATTTCTAAGGATTCAGGCTAAAACCGACTCTGAAGAAAAAGGGAACAGATGGCAGAGTT
CCGGAAGCAGAAGGAGGTGCTGCTGCTTGTGATGAGAAGCGTCATGACTACCTTCTGAGTAAAGGT
GAACGAGACTGTCATACCGTGCACTCCAGGGAGCACTGATGATATTTTTACAGGGAGGAGCCTCGAT
TCCAGGTCCCTTTCCAGCTGCTGACCTCACTTATGGACATTGACACGCTCATGACCAAATGGAGATATAA
TCATGTGTGCATGGTGCACAGAATGCTGGGCACCAAGGCTGGCACTGGGGATCCTCAGGCTATCATTAC
CTGCGTTCAACTGTGAGCGACAGGTACAAGTTTTTGTGGATTTATTTAACCTCTCAACATATCTGGTTC
CCAGACTGGGTACCAAAGATGAATCCGATCATTACAAATTCCTTTACACAGCCGAGTACAGTACAG
CTCTTACTTCAGCAGCGATGAATCGGAT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206377 representing NM_019911
Red=Cloning site Green=Tags(s)

MSGCPFAGNSVGYTLKNVSMEDNEEDRAQTGVNRASKGGLIYGNYLQLEKILNAQELQSEVKGKNIHDEH
 LFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVIARMHRVVVIFKLLVQQFVLETMTALDF
 NDFREYLSPASGFQSLQFRLLLENKIGVLQSLRVPYNRKHRYRDNFGGDYNELLKSEQEQTLLQLVEAWLE
 RTPGLEPNGFNFWGKFEKNILKGLEEEFLRIQAKTDSEEKEEQMAEFRKQKEVLLCLFDEKRHDYLLSKG
 ERRLSYRALQGALMIYFYREEPFRQVFPQLLTSMLMDIDLMTKWRYNHVCMVHRMLGKAGTGGSSGYHY
 LRSTVSDRYKVFVDL FNLSTYL VPRHWVPKMNP I IHKFLYTAEYSDSSYFSSDES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019911

ORF Size: 1218 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

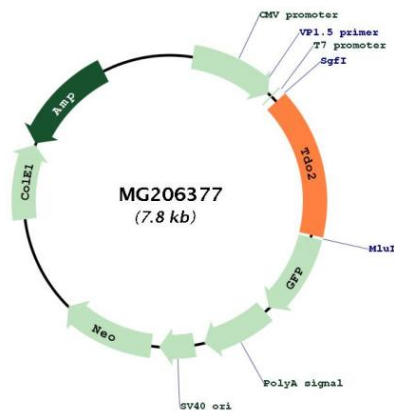
Locus ID: 56720

UniProt ID: [P48776](#)

Cytogenetics: 3 E3

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 MG206377