

## Product datasheet for MR206249

### Ido2 (NM\_145949) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ido2 (NM_145949) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ido2
Synonyms:	AI265623; C230043N17Rik; Ido-2; Indol1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206249 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGCTGGAGGTGCCGTTGTCCTTGGGGAGATACCACATTTCTGAGGAATATGGCTTTCTCCTTCCAA  
ATCCTCTGGAAGCACTTCCAGATCATTACAAGCCTTGGATGAAATTGCCCTCAGACTTCTCCTCACTTAAT  
CGAGAACCAGCTCCGAGCTCACGTGTACAGGATGCCTCTCCTGGACTGCAGATTCTAAAGAGTTAC  
CGTGAGCAGCGCCTGGCACACATGGCGCTGGCCGCTATACCATGGGATTCGTCTGGCAGGAGGGGAAG  
GCCAACCCAAAAGGTGCTGCCAAGATCTTTGCCATTCTTTTGTGAGGTATCCAGGAACTTGGGACT  
CCCGCCTATCCTGGTCCACTCTGACCTGGTGTGACAACTGGACAAAAGGAACCCAGAAGGACCGTTG  
GAAATCAGTAACCTGAAACCATCATCTCATTTCCGGGGGAGAGAGCCTGCGGGGCTTCATCCTAGTGA  
CAGTCTTGGTGGAGAAGGCAGCAGTGCCCGCCTTAAGGCCCTGGTTCAGGGAATGGAGGCCATTCGGCA  
ACACAGTCAGGACACCCTGCTAGAAGCCCTGCAGCAGCTGAGACTCTCCATCCAGGATATCACCAGAGCC  
TTGGCCAAATGCATGATTATGTGGACCCAGACATATTTACTCGGTATCCGGATCTTCTCTCTGGGT  
GGAAGGACAATCCAGCCATGCCTGTGGGCTGGTCTATGAAGTGCTGCCACAGAGCCTCTGAAGTACTC  
TGGAGGAAGTGCAGCCCAGAGCTCCGTGCTTATGCCTTCGATGAGTTCCTGGCATTGAGCATTGCAAG  
GAAAGTGTGGCTTTCTACACAGAATGAGGGACTACATGCCGCTTCCCATAAGGCTTTCTGGAAGATC  
TCCACGTAGCTCCTTCTCTGAGAGACTACATACTGGCCTCTGGTCTGGGACTGCCTGATGGCCTATAA  
CCAGTGTGTGGAGGCCCTGGGAGAGCTGCGCAGTTACCACATCAATGTCGTGGCCAGATACATTATCTCC  
GCTGCCACCAGGGCCAGGAGCAGGGGCTAACTAATCCCTCACCCATGCCTTGAAGACAGGGGCACTG  
GGGGTACTGCCATGCTGAGCTTCTTGAAGAGTGTGAGGAGAAGACCATGGAGGCCCTCCTGTCTCTGG  
TGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206249 protein sequence  
Red=Cloning site Green=Tags(s)

MTLEVPLSLGRYHISEEYGFLLPNPLEALPDHYKPWMEIALRPLHLIENRQLRAHVYRMPLLDCRFLKSY  
 REQLAHMALAAITMGFVWQEGEGQPQKVLPRSLAIPFVEVSRNLGLPPILVHSDLVLTNWTKRNPPEGL  
 EISNLETIISFPGGESLRGFI LVTVLVEKAAVPLKALVQGMEAIRQHSQDTLLEALQQLRLSIQDITRA  
 LAQMHDYVDPDIFYSVIRIFLSGWKDNPAMPVGLVYEGAATEPLKYSGGSAQAQSSVLHAFDEFGLGIEHCK  
 ESVGFLHRMRDYMPPSHKAFLEDLHVAPSLRDYILASGPGDCLMAYNQCV EALGELRSYHINVVARYIIS  
 AATRARSRLTNPSPHALEDRGTGGTAMLSFLKSVREKTMEALLCPGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_145949

**ORF Size:** 1197 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](#)

**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\\_145949.1](#), [NP\\_666061.1](#)

**RefSeq Size:** 3014 bp

**RefSeq ORF:** 1218 bp

**Locus ID:** 209176

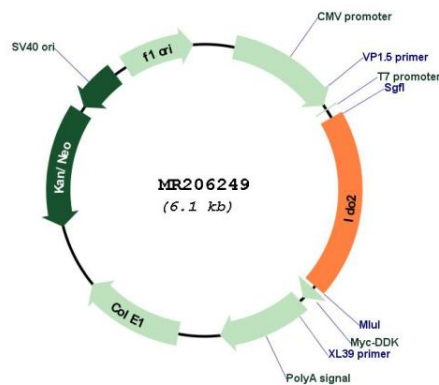
**UniProt ID:** [Q8R0V5](#)

**Cytogenetics:** 8 A2

**MW:** 44.4 kDa

**Gene Summary:** Catalyzes the first and rate-limiting step in the kynurenine pathway of tryptophan catabolism (PubMed:17499941, PubMed:17499941). Involved in immune regulation (PubMed:25477879). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206249