

Product datasheet for **MG206394**

Ido1 (NM_008324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ido1 (NM_008324) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ido1
Synonyms:	Ido; Indo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206394 representing NM_008324 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTCAGTAAAATATCTCCTACAGAAGGTTCTAGAAGGATCCTTGAAGACCACCACATAGATGAAG
ATGTGGGCTTTGCTCTACCACATCCACTGGTGGAGCTGCCCGACGCATACAGCCCCTGGGTCCTTGTGGC
TAGAAATCTGCCTGTGCTGATTGAGAACGGCAGCTTCGAGAAGAAGTTGAAAAGCTGCCACACTGAGC
ACGGACGGACTGAGAGGACACAGGTTACAGCGCCTGGCACACCTGGCCCTGGGGTACATCACCATGGCGT
ATGTGTGGAACCGAGGGGATGACGATGTTGAAAGGTGCTGCCCGCAATATTGCTGTTCCCTACTGCGA
GCTCTCAGAGAAGTTGGGCTGCCTCCTATTCTGTCTTATGCAGACTGTGCTCTGGCAAACCTGGAAGAAA
AAGGACCCCAATGGGCCATGACATACGAGAACATGGACATTCTGTTCTCATTTCCTGGTGGGACTGCG
ACAAGGGCTTCTCCTCGTCTCTCTATTGGTGGAAATCGCAGCTTCTCCTGCAATCAAAGCAATCCCCAC
TGTATCCAGTGCAGTAGAGCGTCAAGACCTGAAAGCATTGGAAAAGGCACTGCACGACATAGCTACCAGT
CTGGAGAAAGCCAAGGAAATTTTAAGAGGATGCGTGACTTTGTGGACCCAGACAGTTTTTCCACGTTCT
TCCGCATATATCTGTCTGGCTGGAAATGCAGCTCCAAGCTGCCAGAAGGTCTGCTGTATGAGGGGTCTG
GGACACCCCAAAAATGTTTTAGGGGGCAGTGCAGGCCAGAGCAGCATCTCCAGAGTCTTGATGTCCTT
CTGGGAATAAAACACGAGGCTGGCAAAGAATCTCCTGCAGAATTCCTCCAGGAAATGAGAGAGTACATGC
CTCCAGCCACCCGAACTTCTTTTTCTTTAGAGTCAGCTCCCCAGTCCCGTGGTGTGATTTGCTATTTCAAG
ACACAATGAAGACTTGACGAAAGCTTATAACGAGTGTGTAATGGTCTGCTCTGTGAGAAAGTCCAC
CTCGCAATAGTAGATACTTACATTATGAAACCTTCGAAGAAGAAGCCCACTGATGGCGACAAGTCGGAAG
AGCCCTCAAATGTGAAAGCAGAGGGACTGGGGTACGAATCCCATGACTTTCCTAAGGAGTGTGAAAGA
TACAACCGAGAAAGCTTCTGAGTTGGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206394 representing NM_008324
 Red=Cloning site Green=Tags(s)

MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYSPWVLVARNLPVLIENGQLREEVEKLPTLS
 TDGLRGHRLQRLAHLALGYITMAYVWNRGDDDDRKVLPRNIAVPYCEKSEKLGPPILSYADCVLANWKK
 KDPNGPMTYENMDILFSFPGGCDKGFVLVSLLEVEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATS
 LEKAKEIFKRMDFVDPDTFFHVLRIYLSGWKCSSKLEPEGLLYEGVWDTPKMFSGGGAGQSSIFQSLDVL
 LGIKHEAGKESPAEFLQEMREYMPPAHRNFLFFLESAPPVREFVISRHNEDLTKAYNECVNGLVSVRKFH
 LAIVDTYIMKPSKKKPTDGDGKSEEPSNVESRGTGGTNPMTFLRSVKDTTEKALLSWP

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1609_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008324

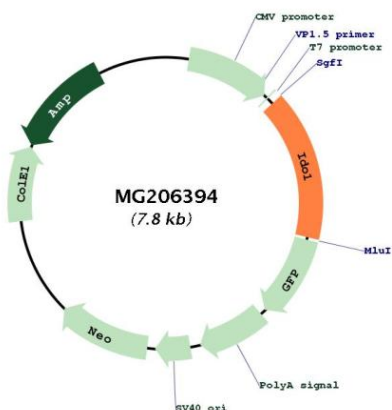
ORF Size: 1221 bp

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_008324.2
RefSeq Size:	1555 bp
RefSeq ORF:	1224 bp
Locus ID:	15930
UniProt ID:	P28776
Cytogenetics:	8 A2
Gene Summary:	Catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway. Involved in the peripheral immune tolerance, contributing to maintain homeostasis by preventing autoimmunity or immunopathology that would result from uncontrolled and overreacting immune responses. Tryptophan shortage inhibits T lymphocytes division and accumulation of tryptophan catabolites induces T-cell apoptosis and differentiation of regulatory T-cells. Acts as a suppressor of anti-tumor immunity (PubMed:25691885). Limits the growth of intracellular pathogens by depriving tryptophan. Protects the fetus from maternal immune rejection (Ref. 3).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206394