

Product datasheet for MR206394

Ido1 (NM_008324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ido1 (NM_008324) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ido1
Synonyms:	Ido; Indo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206394 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTCAGTAAAATATCTCCTACAGAAGGTTCTAGAAGGATCCTTGAAGACCACCACATAGATGAAG
ATGTGGGCTTTGCTCTACCACATCCACTGGTGGAGCTGCCCGACGCATACAGCCCCTGGGTCCTGTGGC
TAGAAATCTGCCTGTGCTGATTGAGAACGGCAGCTTCGAGAAGAAGTTGAAAAGCTGCCACACTGAGC
ACGGACGGACTGAGAGGACACAGGTTACAGCGCCTGGCACACCTGGCCCTGGGGTACATCACCATGGCGT
ATGTGTGGAACCGAGGGGATGACGATGTTGAAAGGTGCTGCCCGCAATATTGCTGTTCCCTACTGCGA
GCTCTCAGAGAAGTTGGCCTGCCTCCTATTCTGTCTTATGCAGACTGTGCTCTGGCAAACCTGGAAGAAA
AAGGACCCCAATGGGCCATGACATACGAGAACATGGACATTCTGTTCTCATTTCCTGGTGGGACTGCG
ACAAGGGCTTCTCCTCGTCTCTCTATTGGTGGAAATCGCAGCTTCTCCTGCAATCAAAGCAATCCCCAC
TGTATCCAGTGCAGTAGAGCGTCAAGACCTGAAAGCATTGGAAAAGGCACTGCACGACATAGCTACCAGT
CTGGAGAAAGCCAAGGAAATTTTAAGAGGATGCGTGACTTTGTGGACCCAGACAGTTTTTCCACGTTT
TCCGCATATATCTGTCTGGCTGGAAATGCAGCTCCAAGCTGCCAGAAGGTCTGCTGTATGAGGGGTCTG
GGACACCCCAAAAATGTTTTCAGGGGCGAGTGCAGGCCAGAGCAGCATCTCCAGAGTCTTGATGCTCCTT
CTGGGAATAAAACACGAGGCTGGCAAAGAATCTCCTGCAGAATTCCTCCAGGAAATGAGAGAGTACATGC
CTCCAGCCACCCGAACTTCTTTTCTTCTTAGAGTCAGCTCCCCAGTCCCGTGGTGTGATTTCAAG
ACACAATGAAGACTTGACGAAAGCTTATAACGAGTGTGTAATGGTCTGGTCTCTGTGAGAAAGTCCAC
CTCGCAATAGTAGATACTTACATTATGAAACCTTCGAAGAAGAAGCCCACTGATGGCGACAAGTCGGAAG
AGCCCTCAAATGTGGAAGCAGAGGGACTGGGGTACGAATCCCATGACTTTCCTAAGGAGTGTGAAAGA
TACAACCGAGAAAGCTTCTCTGAGTTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206394 protein sequence
 Red=Cloning site Green=Tags(s)

MALSKISPTEGSRRILEDHHIDEDVGFALPHPLVELPDAYSPWVLVARNLPVLIENGQLREEVEKLPTLS
 TDGLRGHRLQRLAHLALGYITMAYVWNRGDDVDRKVLPRNIAVPYCELSEKLGPPILSYADCVLANWKK
 KDPNGPMTYENMDILFSFPGGCDKGFVLVSLLEVEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATS
 LEKAKEIFKRMDFVDPDTFFHVLRIYLSGWKCSSKLEPEGLLYEGVWDTPKMFSGGAGQSSIFQSLDVL
 LGIKHEAGKESPAEFLQEMREYMPAHRNFLFFLESAPPVREFVISRHNEDLTKAYNECVNGLVSVRKFH
 LAIVDTYIMKPSKKKPTDGDKSEEPSNVESRGTGGTNPMTFLRSVKDTTEKALLSWP

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_008324

ORF Size: 1224 bp

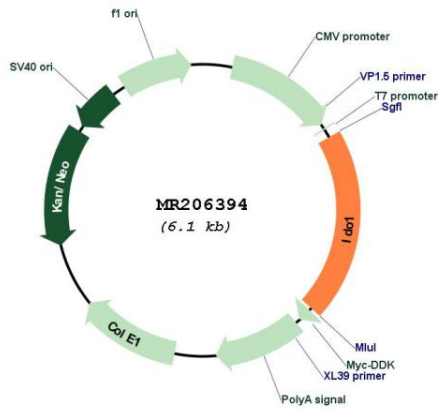
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<u>NM_008324.2</u>
RefSeq Size:	1506 bp
RefSeq ORF:	1224 bp
Locus ID:	15930
UniProt ID:	<u>P28776</u>
Cytogenetics:	8 A2
MW:	45.6 kDa
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 MR206394