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Product datasheet for MR229200

Ido1 (NM_001293690) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ido1 (NM_001293690) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ido1
Synonyms:	Ido; Indo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229200 representing NM_001293690 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGTATGTGTGGAACCGAGGGGATGACGATGTTCGAAAGGTGCTGCCCCGCAATATTGCTGTTCCCT ACTGCGAGCTCTCAGAGAAGTTGGGCCTGCCTCCTATTCTGTCTTATGCAGACTGTGTCCTGGCAAACTG GAAGAAAAAGGACCCCAATGGGCCCATGACATACGAGAACATGGACATTCTGTTCTCATTTCCTGGTGGG GACTGCGACAAGGGCTTCTTCCTCGTCTCTCTATTGGTGGAAATCGCAGCTTCTCCTGCAATCAAAGCAA TCCCCACTGTATCCAGTGCAGTAGAGCGTCAAGACCTGAAAGCATTGGAAAAGGCACTGCACGACATAGC TACCAGTCTGGAGAAAGCCAAGGAAATTTTTAAGAGGATGCGTGACTTTGTGGACCCAGACACGTTTTTC CACGTTCTCCGCATATATCTGTCTGGCTGGAAATGCAGCTCCAAGCTGCCAGAAGGTCTGCTGTATGAGG GGGTCTGGGACACCCCAAAAATGTTTTCAGGGGGCAGTGCAGGCCAGAGCAGCATCTTCCAGAGTCTTGA TGTCCTTCTGGGAATAAAACACGAGGCTGGCAAAGAATCTCCTGCAGAATTCCTCCAGGAAATGAGAGAG TACATGCCTCCAGCCCACCGGAACTTCCTTTTCTTCTTAGAGTCAGCTCCCCCAGTCCGTGAGTTTGTCA TTTCAAGACACAATGAAGACTTGACGAAAGCTTATAACGAGTGTGTGAATGGTCTGGTCTCTGTGAGAAA GTTCCACCTCGCAATAGTAGATACTTACATTATGAAACCTTCGAAGAAGAAGCCCACTGATGGCGACAAG TCGGAAGAGCCCTCAAATGTGGAAAGCAGAGGGACTGGGGGTACGAATCCCATGACTTTCCTAAGGAGTG TGAAAGATACAACCGAGAAAGCTCTTCTGAGTTGGCCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

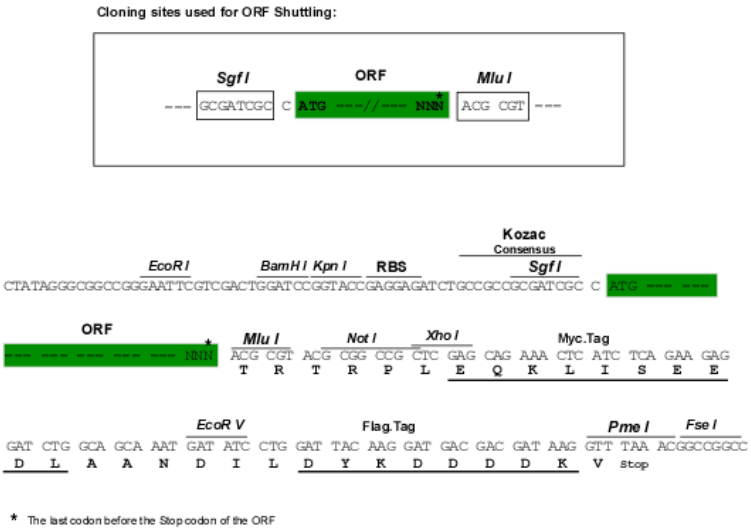
>MR229200 representing NM_001293690
Red=Cloning site Green=Tags(s)

MAYVWNRGDDDVRKVLPRNIAVPYCELSEKLGLPPILSYADCVLANWKKKDPNGPMTYENMDILFSFPGG
DCDKGFFLVSLLVEIAASPAIKAIPTVSSAVERQDLKALEKALHDIATSLEKAKEIFKRMRDFVDPDTFF
HVLRIYLSGWKCSSKLPEGLLYEGVWDTPKMFSGGSAGQSSIFQSLDVLLGIKHEAGKESPAEFLQEMRE
YMPPAHRNFLFFLESAPPVREFVISRHNEDLTKAYNECVNGLVSVRKFHLAIVDTYIMKPSKKKPTDGDK
SEEPSNVESRGTGGTNPMTFLRSVKDTTEKALLSWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

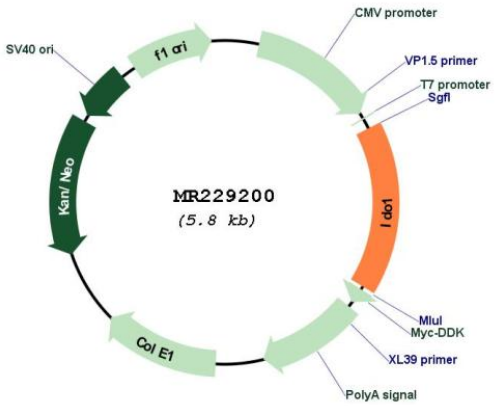
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001293690

ORF Size: 948 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_001293690.1, NP_001280619.1
RefSeq Size:	1659 bp
RefSeq ORF:	951 bp
Locus ID:	15930
UniProt ID:	P28776
Cytogenetics:	8 A2
MW:	35.9 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]