

## Product datasheet for MC202318

### Ido1 (NM\_008324) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ido1 (NM\_008324) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ido1  
**Synonyms:** Ido; Indo  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC049931 sequence for NM\_008324  
AGCAATGGCACTCAGTAAAAATATCTCTACAGAAGTTCTAGAAGGATCCTTGAAGACCACCACATAGAT  
GAAGATGTGGCTTTGCTCTACCACATCCACTGGTGGAGCTGCCGACGCATACAGCCCCTGGGTCTTG  
TGGCTAGAAATCTGCCTGTGCTGATTGAGAACGGGCAGCTTCGAGAAGAAGTTGAAAAGCTGCCCACT  
GAGCACGGACGGACTGAGAGGACACAGGTTACAGCGCCTGGCACACCTGGCCCTGGGGTACATCACCATG  
GCGTATGTGTGGAACCGAGGGGATGACGATGTTGAAAGGTGCTGCCCGCAATATTGCTGTTCCCTACT  
GCGAGCTCTCAGAGAAGTTGGGCTGCCTCCTATTCTGTCTTATGCAGACTGTGCTCTGGCAAACCTGGAA  
GAAAAAGGACCCCAATGGGCCATGACATACGAGAACATGGACATTCTGTTCTCATTTCCTGGTGGGGAC  
TGCGACAAGGGCTTCTCCTCGTCTCTCTATTGGTGGAAATCGCAGCTTCTCCTGCAATCAAAGCAATCC  
CCACTGTATCCAGTGCAGTAGAGCGTCAAGACCTGAAAGCATTGAAAAGGCACTGCACGACATAGCTAC  
CAGTCTGGAGAAAGCCAAGGAAATTTTTAAGAGGATGCGTGACTTTGTGGACCCAGACACGTTTTCCAC  
GTTCTCCGCATATATCTGTCTGGCTGGAATGCAGCTCCAAGCTGCCAGAAGGTCTGCTGTATGAGGGGG  
TCTGGGACACCCAAAAATGTTTTAGGGGGCAGTGCAAGCCAGAGCAGCATCTCCAGAGTCTTGATGT  
CCTTCTGGGAATAAACACGAGGCTGGCAAAGAATCTCCTGCAGAATTCCTCCAGAAATGAGAGAGTAC  
ATGCCCTCAGCCACCGAACTTCTTTTCTTCTTAGAGTCAGCTCCCCAGTCCGTGAGTTTGTCAATT  
CAAGACACAATGAAGACTTGACGAAAGCTTATAACGAGTGTGTGAATGGTCTGGTCTCTGTGAGAAAGTT  
CCACCTCGCAATAGTAGATACTTACATTATGAAACCTTCGAAGAAGAAGCCCACTGATGGCGACAAGTGC  
GAAGAGCCCTCAAATGTGGAAGCAGAGGGACTGGGGTACGAATCCCATGACTTTCCTAAGGAGTGTGA  
AAGATACAACCGAGAAAGCTCTTCTGAGTTGGCCTTAGTGTAGCAAGCTCCACTTCTATCAGGGCACAGA  
AAACACCTTCATCCTGTATAGCTCATTAAATCAGATCCACCAAGTAAGACTATAGAATAATTTGCCTGT  
TGTATATTATGTAGATTTCAAAAATCATCTGTGCATTCCCTGTAGAAAAAATCAAGCTGAACTATTTA  
ATGATATTAATAATGATATAAGAAATAATATAAAATATATTTATGATTGAAATACAACAATGAGACCCAGT  
AAATAAAGTTATTGTGAAGTTGAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_008324



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<b>Insert Size:</b>	1224 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC049931</a> , <a href="#">AAH49931</a>
<b>RefSeq Size:</b>	1533 bp
<b>RefSeq ORF:</b>	1224 bp
<b>Locus ID:</b>	15930
<b>UniProt ID:</b>	<a href="#">P28776</a>
<b>Cytogenetics:</b>	8 A2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>