

Product datasheet for **MG207359**

Odc1 (BC059826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odc1 (BC059826) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Odc1
Synonyms:	Odc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207359 representing BC059826
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAGCTTTACTAAGGACGAGTTTGACTGCCACATCCTTGATGAAGGCTTTACTGCTAAGGACATTC
 TGGACAAAAAATCAATGAAGTCTTCTCTGACGATAAGGATGCGTTCTATGTTGCGGACCTCGGAGA
 CATTCTAAAGAAGCATCTGAGGTGGCTAAAAGCTTCCCCGCGTCACTCCCTTTACGCAGTCAAGTGT
 AACGATAGCAGAGCCATAGTGAGCACCTAGCTGCCATTGGGACAGGATTTGACTGTGCAAGCAAGACTG
 AAATACAGTTGGTGCAGGGGCTTGGGTGCCTGCAGAGAGGTTATCTATGCAAATCCTTGTAACAAGT
 CTCTCAAATCAAGTATGCTGCCAGTAACGGAGTCCAGATGATGACTTTTGACAGTAAAATTGAATTGATG
 AAAGTCGCAGAGCACATCAAAGGCAAAGTTGGTTCTACGGATTGCCACTGATGATCCAAAGCTGTCT
 GTCGCCTCAGTGTTAAGTTTGGTCCCACTCAAACCAGCAGGCTTCTCTTGAACGGGCAAAAGAGCT
 AAATATTGACGTCATTGGTGTGAGCTTCCATGTGGCAGTGGATGTACTGATCCTGAGACCTTCGTTGAG
 GCAGTGTCCGATCCCGCTGTGTGTTGACATGGCAACAGAAGTTGGTTTCAGCATGCATCTGCTTGATA
 TTGGTGGTGGCTTCTGGATCTGAAGATACAAAGCTTAAATTTGAAGAGATCACCAAGTGAATCAACCC
 AGCTCTGGACAAGTACTTCCCATCAGACTCTGGAGTGAGAATCATAGCTGAGCCAGGCAGATACTATGTC
 GCATCAGCTTTCACGCTTGCAGTCAACATCATTGCCAAAAAACCGTGTGGAAGGAGCAGCCCGGCTCTG
 ACGATGAAGATGAGTCAAATGAACAACTTATGATATTATGTGAATGATGGAGTATATGGATCATTTAA
 CTGCATTCTTTATGATCATGCCATGTGAAGCCCTGCTGCAGAAGAGACCAAGCCAGACGAGAAGTAT
 TACTCATCCAGCATCTGGGGACCAACATGTGATGGCCTTGATCGGATCGTGGAGCGCTGTAACTGCCTG
 AAATGCATGTGGGTGATTGGATGCTGTTGAGAACATGGGTGCATACACTGTTGCTGCTTCTACTTT
 CAATGGGTTCCAGAGGCCAAACATCTACTATGTAATGTACAGGCCAATGTGGCAACTCATGAAGCAGATC
 CAGAGCCATGGCTTCCCGCCGGAGGTGGAGGAGCAGGATGATGGCACGCTGCCCATGCTTTGTGCCCAGG
 AGAGCGGGATGGACCGTACCCTGCAGCCTGTGCTTCTGCTAGGATCAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207359 representing BC059826
 Red=Cloning site Green=Tags(s)

MSSFTKDEFDCHILDEGFTAKDILDQKINEVSSDDKDAFYVADLGDILKKHLRWLKALPRVTPFYAVKC
 NDSRAIVSTLAAIGTGFDCAASKTEIQLVQGLGVAERVIYANPCKQVSQIKYAASNGVQMMTFDSEIELM
 KVARAHPKAKLVLRIATDDSKAVCRLSVKFGATLKTSRLLLERAKELNIDVIGVSFHVSGCTDPETFVQ
 AVSDARCVFDMATEVGFSMHLLDIGGFPGSEDTKLKFEETSVINPALDKYFSPDSGVRVIAEPGRYYV
 ASAFTLAVNIIAKKTVWKEQPGSDDEDESNEQTFMYVNDGVYGSFNCILYDHAHVKALLQKRPKPDEKY
 YSSSIWGPCTDGLDRIVERCNLPEMHVGDWMLFENMGAYTVAAASTFNGFQRPNIYYVMSRPMWQLMKQI
 QSHGFPPEVEEQDDGTLPMSCAQESGMDRHPAACASARINV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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>BC059826.1</u>
RefSeq Size:	2021 bp
RefSeq ORF:	1385 bp
Locus ID:	18263
Cytogenetics:	12 8.11 cM
Gene Summary:	Catalyzes the first and rate-limiting step of polyamine biosynthesis that converts ornithine into putrescine, which is the precursor for the polyamines, spermidine and spermine. Polyamines are essential for cell proliferation and are implicated in cellular processes, ranging from DNA replication to apoptosis.[UniProtKB/Swiss-Prot Function]