

Product datasheet for **MG207353**

Odc1 (NM_013614) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Odc1 (NM_013614) 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:

>MG207353 representing NM_013614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAGCTTTACTAAGGACGAGTTTGACTGCCACATCCTTGATGAAGGCTTTACTGCTAAGGACATTC
 TGGACAAAAAATCAATGAAGTCTTCTCTGACGATAAGGATGCGTTCTATGTTGCGGACCTCGGAGA
 CATTCTAAAGAAGCATCTGAGGTGGCTAAAAGCTTCCCCGCGTCACTCCCTTTACGCAGTCAAGTGT
 AACGATAGCAGAGCCATAGTGAGCACCTAGCTGCCATTGGGACAGGATTTGACTGTGCAAGCAAGACTG
 AAATACAGTTGGTGCAGGGGCTTGGGTGCCTGCAGAGAGGTTATCTATGCAAATCCTTGTAACAAGT
 CTCTCAAATCAAGTATGCTGCCAGTAACGGAGTCCAGATGATGACTTTTGACAGTGAAATTGAATTGATG
 AAAGTCGCAGAGCACATCAAAGGCAAAGTTGGTTCTACGGATTGCCACTGATGATTCAAAGCTGTCT
 GTCGCCTCAGTGTTAAGTTTGGTCCCACTCAAACCAGCAGGCTTCTCTTGAACGGGCAAAAGAGCT
 AAATATTGACGTCATTGGTGTGAGCTTCCATGTGGCAGTGGATGTACTGATCCTGAGACCTTCGTTGAG
 GCAGTGTCCGATCCCGCTGTGTGTTGACATGGCAACAGAAGTTGGTTTCAGCATGCATCTGCTTGATA
 TTGGTGGTGGCTTTCCTGGATCTGAAGATACAAAGCTTAAATTTGAAGAGATCACCAAGTGAATCAACCC
 AGCTCTGGACAAGTACTTCCCATCAGACTCTGGAGTGAGAATCATAGCTGAGCCAGGCAGATACTATGTC
 GCATCAGCTTTCACGCTTGCAGTCAACATCATTGCCAAAAAACCGTGTGGAAGGAGCAGCCCGGCTCTG
 ACGATGAAGATGAGTCAAATGAACAACTTCAATGATTTATGGAATGATGGAGTATATGGATCATTTAA
 CTGCATTTCTTATGATCATGCCATGTGAAGCCCTGCTGCAGAAGAGACCAAGCCAGACGAGAAGTAT
 TACTCATCCAGCATCTGGGGACCAACATGTGATGGCCTTGATCGGATCGTGGAGCGCTGTAACTGCCTG
 AAATGCATGTGGGTGATTGGATGCTGTTTGAACATGGGTGCATACACTGTTGCTGCTTCTACTTT
 CAATGGGTTCCAGAGGCCAAACATCTACTATGTAATGTACGGCCAATGTGGCAACTCATGAAGCAGATC
 CAGAGCCATGGCTTCCCGCCGGAGGTGGAGGAGCAGGATGATGGCACGCTGCCATGTCTTGTGCCAGG
 AGAGCGGGATGGACCGTACCCTGCAGCCTGTGCTTCTGCTAGGATCAATGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207353 representing NM_013614
 Red=Cloning site Green=Tags(s)

MSSFTKDEFDCHILDEGFTAKDILDQKINEVSSDDKDAFYVADLGDILKKHLRWLKALPRVTPFYAVKC
 NDSRAIVSTLAAIGTGFDCAASKTEIQLVQGLGVAERVIYANPCKQVSQIKYAASNGVQMMTFDSEIELM
 KVARAHPKAKLVLRIATDDSKAVCRLSVKFGATLKTSRLLLERAKELNIDVIGVSFHVSGCTDPETFVQ
 AVSDARCVFDMATEVGFSMHLLDIGGFPGSEDTKLKFEETSVINPALDKYFSPDSGVRVIAEPGRYYV
 ASAFTLAVNIIAKKTVWKEQPGSDDEDESNEQTFMYVNDGVYGSFNCILYDHAHVKALLQKRPKPKDEKY
 YSSSIWGPCTDGLDRIVERCNLPEMHVGDWMLFENMGAYTVAAASTFNGFQRPNIYYVMSRPMWQLMKQI
 QSHGFPPEVEEQDDGTLPMSCAQESGMDRHPAACASARINV

TRTRPLE – GFP Tag – V

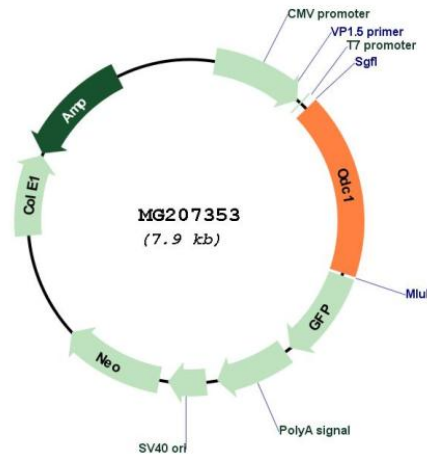
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013614

ORF Size: 1383 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.

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| 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_013614.2</u> , <u>NP_038642.2</u> |
| RefSeq Size: | 2547 bp |
| RefSeq ORF: | 1386 bp |
| Locus ID: | 18263 |
| UniProt ID: | <u>P00860</u> |
| 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] |