

Product datasheet for **RR216718**

Odc1 (NM_001302083) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Odc1 (NM_001302083) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Odc1
Synonyms:	Odc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR216718 representing NM_001302083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAGCTTTACTAAGGAAGAGTTTGACTGCCATATCCTCGATGAAGTTCCTACTGCTAAGGACATTC
 TGGACCAAAAAATCAATGAAGTTTCTTCTCTGATGATAAGGATGCTTTCTATGTTGCGGACCTCGGAGA
 CGTTCTAAAGAAGCATCTGAGGTGGCTGAAAGCTCTTCCCGTGTTACTCCCTTCTATGCTGCAAGTGT
 AATGACAGCAGAGCCATAGTGAGCACCTGGTGCCATTGGGACAGGATTTGATTGTGCAAGCAAGACTG
 AAATACAGTTGGTGCAGGGGCTTGGGTGCCTCCAGAGAGGATTATCTATGCAAACTCTGTAAGCAAGT
 GTCTCAGATCAAGTATGCTGCCAGTAATGGAGTCCAGATGATGACTTTTGACAGTGAAATGAGTTGATG
 AAAGTTGCCAGAGCACATCAAAGGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCAAAGCAGTTT
 GTCGGCTCAGTGTTAAGTTTGGTCCCACTGAAAACCAGCAGGCTTCTCTTGAACGGGCAAAAGAGCT
 AAATATTGATGTCATTGGTGTGAGTTCATGTGGGCAGTGGGTGACTGACCCTGAGACCTTCGTGCAG
 GCAGTGTGAGATGCCCGCTGTGTCTTTGACATGGGAACAGAAGTTGGTTTCAGCATGTATCTGCTTGACA
 TTGGTGGTGGCTTCTGGGTCTGAAGACACGAAGCTTAAATTTGAGGAGATCACCAAGTGAATCAACCC
 AGCTCTGGACAAGTACTTCCCATCGGACTCTGGAGTGAGAATCATAGCTGAGCCAGGCAGATACTACGTC
 GCATCAGCTTTCACACTGCAAGTGAATATCATTGCCAAAAAACCGTGTGGAAGGAGCAGACCGGCTCGG
 ACGATGAAGATGAGTCAAACGAGCAAATTTGATGTATTACGTGAATGATGGAGTGTATGGGTCAATTA
 CTGCATTTTATGACCATGCACATGTGAAGCCCTGCTGCAGAAGAGACCAAGCCAGATGAGAAGTAT
 TACTCATCCAGCATCTGGGGACCAACATGTGATGGCCTTGATCGGATCGTCGAGCGCTGTAGCCTGCCTG
 AAATGCATGTGGGTGATTGGATGCTGTTTGAGAACATGGGTGCATACACTGTTGCTGCTTCTACTTT
 CAATGGGTTCCAGAGGCCAAACATCTACTACTGATGATGTCACGGTCAATGTGGCAACTCATGAAGCAAATC
 CAGAGCCATGGCTTCCCGCCAGAAGTGGAGGAGCAGGATGTTGGCACTCTGCCATGTCTTGTGCCAGG
 AGAGCGGGATGGACCGTACCCTGCAGCCTGTGCTTCTGCTAGTATCAATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216718 representing NM_001302083
 Red=Cloning site Green=Tags(s)

MGSFTKEEFDCHILDEGFTAKDILDQKINEVSSDDKDAFYVADLGDVLLKHLRWLKALPRVTPFYAVKC
 NDSRAIVSTLAAIGTGFDCASKTEIQLVQGLGVPPERIIYANPCKQVSQIKYAASNGVQMMTFDSEIELM
 KVARAHPKAKLVLRIATDDSKAVCRLSVKFGATLKTSLRLLERAKELNIDVIGVSFHVSGCTDPETFVQ
 AVSDARCVFDMGTEVGFSMYLLDIGGGFPGSEDTLKFEEITSVINPALDKYFSPDSGVRIIAEPGRYYV
 ASAFITLAVNIIAKKTVWKEQTGSDDDESNQTLMYVNDGVYGSFNCILYDHAHVKALLQKRPKPDEKY
 YSSSIWGPTCDGLDRIVERCSLPEMHVGDWMLFENMGAYTAAAASFNGFQRPNIYYVMSRSMWQLMKQI
 QSHGFPEVEEQDVGTLPMSCAQESGMDRHPAACASASINV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

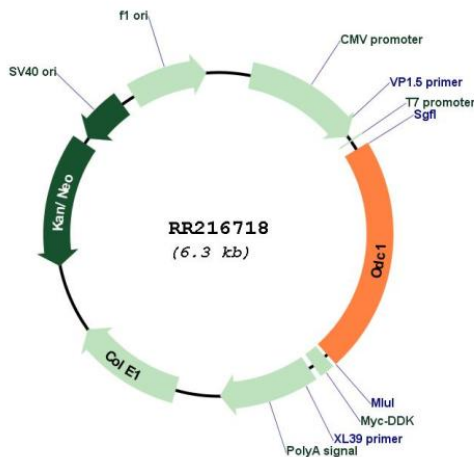
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302083

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.

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_001302083.1](#), [NP_001289012.1](#)

RefSeq Size: 2393 bp

RefSeq ORF: 1386 bp

Locus ID: 24609

UniProt ID: [P09057](#)

Cytogenetics: 6q16

MW: 51 kDa

Gene Summary: catalyzes the conversion of L-ornithine to putrescine [RGD, Feb 2006]