

Product datasheet for **RC237500**

Ornithine Decarboxylase (ODC1) (NM_001287188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ornithine Decarboxylase (ODC1) (NM_001287188) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ODC1
Synonyms:	BABS; NEDBA; NEDBIA; ODC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237500 representing NM_001287188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGACTTTTGATAGTGAAGTTGAGTTGATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTT
TGGCGATTGCCACTGATGATCCAAAGCAGTCTGTCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAAC
CAGCAGGCTCCTTTTGGAAACGGGCGAAAGAGCTAAATATCGATGTTGTTGGTGTGAGCTTCCATGTAGGA
AGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGATGCCCGCTGTGTTTTTACATGGGG
CTGAGGTTGGTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCCTGGATCTGAGGATGTGAAACT
TAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTCCGTGAGACTCTGGAGTG
AGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGAGTTAATATCATTGCCA
AGAAAATTGTATTAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTTTATGTA
TTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAGCCCTT
CTGCAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGACCAACATGTGATGGCC
TCGATCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAACAT
GGGCGCTTACACTGTTGCTGCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATG
TCAGGGCCTGCGTGGCAACTCATGCAGCAATCCAGAACCCGACTTCCCACCCGAAGTAGAGGAACAGG
ATGCCAGACCCTGCCTGTGCTTGTGCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTC
GGCTAGTATTAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237500 representing NM_001287188
Red=Cloning site Green=Tags(s)

MMTFDSEVELMKVARAHPKAKLVLRATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVG
 SGCTDPETFVQAI SDARCVFDMGAEVGF SMYLLDIGGGFPGSEVVKLFEEITGVINPALDKYFSDSGV
 RIIAEPGRYYYASAFTLAVNIIAKKIVLKEQTGSDDDESEQTFMYVNDGVYGSFNCILYDHAHVKPL
 LQKRPKPDEKYSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVAAASTFNFGQRPTIYYVM
 SGPAWQLMQQFQNPDPFPPEVEEQDASTLPVSCAWESGMKRHRAACASASINV

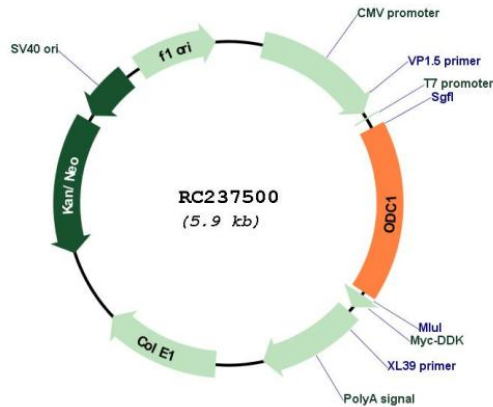
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287188

ORF Size: 996 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:	<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:	NM_001287188.2
RefSeq Size:	2207 bp
RefSeq ORF:	999 bp
Locus ID:	4953
Cytogenetics:	2p25.1
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways
MW:	37.3 kDa
Gene Summary:	This gene encodes the rate-limiting enzyme of the polyamine biosynthesis pathway which catalyzes ornithine to putrescine. The activity level for the enzyme varies in response to growth-promoting stimuli and exhibits a high turnover rate in comparison to other mammalian proteins. Originally localized to both chromosomes 2 and 7, the gene encoding this enzyme has been determined to be located on 2p25, with a pseudogene located on 7q31-qter. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Dec 2013]