

Product datasheet for **RC238358**

Ornithine Decarboxylase (ODC1) (NM_001287189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ornithine Decarboxylase (ODC1) (NM_001287189) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ornithine Decarboxylase
Synonyms:	BABS; NEDBA; NEDBIA; ODC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238358 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACAACCTTTGGTAAATGAAGAGTTTACTGCCAAGGACATTC
 TGGACCAGAAAATTAATGAAGTTTCTTCTGATGATAAGGATGCCTTCTATGTGGCAGACCTGGGAGA
 CATTCTAAAGAAACATCTGAGGTGGTAAAAGCTCTCCCTCGTGTACCCCTTTTATGCAGTCAAATGT
 AATGATAGCAAAGCCATCGTGAAGACCCTTGTCTACCGGGACAGGATTTGACTGTGCTAGCAAGACTG
 AAATACAGTTGGTGCAGAGTCTGGGGTGCCTCCAGAGAGGATTATCTATGCAAATCCTTGTAAACAAGT
 ATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTTGATG
 AAAGTTGCCAGAGCACATCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCAAAGCAGTCT
 GTCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCTTTTGAACGGGCGAAAGAGCT
 AAATATCGATGTTGTTGGTGTGAGTTCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAG
 GCAATCTCTGATGCCCGCTGTGTTTTGACATGGGGGCTGAGTTGGTTTCAGCATGTATCTGCTTGATA
 TTGGCGGTGGCTTCTGGATCTGAGGATGTGAACTTAAATTTGAAGAGATCACCGCGTAATCAACCC
 AGCGTTGGACAAATACTTCCGTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGCAGATACTATGTT
 GCATCAGCTTTCACGCTTGCAGTAAATATCATTGCCAAGAAAATTGTATTAAGGAACAGACGGGCTCTG
 ATGACGAAGATGAGTGCAGTGCAGACCTTTATGATTTATGTGAATGATGGCGTCTATGGATCATTTAA
 TTGCATACTCTATGACCACGCACATGTAAGCCCTTCTGAAAACAGACCTAAACCAGATGAGAAGTAT
 TATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGATCGGATTGTTGAGCGCTGTGACCTGCCTG
 AAATGCATGTGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTACACTGTTGCTGCTCCTACGTT
 CAATGGCTTCCAGAGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTGGCAACTCATGCAGCAATTC
 CAGAACCCTGACTTCCACCCGAAGTAGAGGAACAGGATGCCAGCACCTGCCTGTGCTTGTGCCTGGG
 AGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238358 protein sequence
 Red=Cloning site Green=Tags(s)

MNFGNEEFDCHFLDEGFTAKDILDQKINEVSSDDKDAFYVADLGDILKKHLRWLKALPRVTPFYAVKC
 NDSKAIVKTLAATGTGFDCAASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMMTFDSEVELM
 KVARAHPKAKLVLRIATDDSKAVCRLSVKFGATLRTRSLLLERAKELNIDVVGVSFHVSGCTDPETFVQ
 AISDARCVFDMGAEVGFSMYLLDIGGGFPGSEDKLKFEEITGVINPALDKYFSDSGVRIIAEPGRYYV
 ASAFTLAVNIIAKKIVLKEQTGSDEDESEQTFMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKY
 YSSSIWGPTCDGLDRIVERCDLPEMHVGDWMLFENMGAYTVAASTFNGFQRPTIYYVMSPAWQLMQQF
 QNPDPFPEVEEQDASTLPVSCAWESGMKRHRAACASASIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6177_c08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001287189

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_001287189.2](#)

RefSeq Size: 2199 bp

RefSeq ORF: 1386 bp

Locus ID: 4953

UniProt ID: [P11926](#)

Cytogenetics: 2p25.1

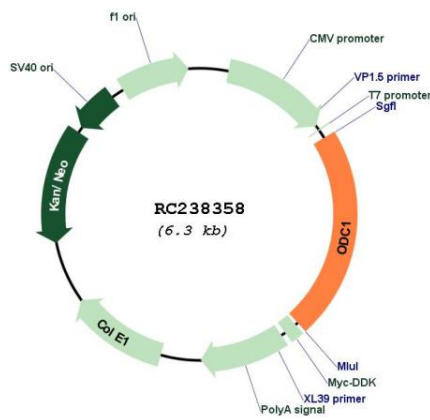
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glutathione metabolism, Metabolic pathways

MW: 51.1 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]

Product images:



Circular map for RC238358