

Product datasheet for **SC321469**

Ornithine Decarboxylase (ODC1) (NM_002539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ornithine Decarboxylase (ODC1) (NM_002539) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ornithine Decarboxylase
Synonyms:	BABS; NEDBA; NEDBIA; ODC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002539.1
 CCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCGGCGTCTCCGGCGGGCGGG
 AGCCAGGCGCTGACGGGCGCGGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCAGGC
 TCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGGCCTGGGCGCTCTGAGATTGTC
 ACTGCTGTTCCAAGGGCACACGCAGAGGGATTTGGAATCCTGGAGAGTTGCCTTTGTGA
 GAAGCTGGAATATTTCTTTTCGATTCCATCTCTTAGTTTTCCATAGGAACATCAAGAAAT
 CATGAACAACCTTTGGTAATGAAGAGTTTGACTGCCACTTCCTCGATGAAGGTTTTACTGC
 CAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTTCTGATGATAAGGATGCCTT
 CTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAAGCTCTCCC
 TCGTGTACCCCCTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCCT
 TGCTGCTACCGGGACAGGATTTGACTGTGCTAGCAAGACTGAAATACAGTTGGTGAGAG
 TCTGGGGTGCCTCCAGAGAGGATTATCTATGCAAATCCTTGAAACAAGTATCTCAAAT
 TAAGTATGCTGTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTTGAT
 GAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTC
 CAAAGCAGTCTGTCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCT
 TTTGGAACGGGGCAAAGAGCTAAATATCGATGTTGTTGGTGTGAGCTTCCATGTAGGAAG
 CGGCTGTACCGATCCTGAGACCTTCGTGCAAGCAATCTCTGATGCCCGCTGTGTTTTTGA
 CATGGGGGCTGAGGTTGGTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCCTGG
 ATCTGAGGATGTGAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGA
 CAAATACTTTCCGTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGT
 TGCATCAGCTTTCACGCTTGCAAGTAAATATCATTGCCAAGAAAATGTATTAAAGGAACA
 GACGGGCTCTGATGACGAAGATGAGTTCGAGTGCAGCAGACCTTTATGTATTATGTGAATGA
 TGGCGTCTATGGATCATTAAATTGCATACTCTATGACCACGCACATGTAAGCCCTTCT
 GCAAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGGACCAACATG
 TGATGGCCTCGATCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTG
 GATGCTCTTTGAAAACATGGGCGCTTACACTGTTGCTGCTGCCTTACGTTCAATGGCTT
 CCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTGGCAACTCATGCAGCAATT
 CCAGAACCCCGACTTCCCACCCGAAGTAGAGGAACAGGATGCCAGCACCTGCCTGTGTC
 TTGTGCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAA
 TGTGTAGATAGCACTCTGGTAGCTGTTAACTGCAAGTTTAGCTTGAATTAAGGGATTGG
 GGGACCATGTAACCTAATTACTGCTAGTTTTGAAATGTCTTTGTAAGAGTAGGGTGC
 ATGATGCAGCCATATGGAAGACTAGGATATGGGTACACTTATCTGTGTTCTATGGAAA
 CTATTTGAATATTTGTTTTATATGGATTTTTATTCACTTTCAGACACGCTACTCAAAGAG
 TGCCCCTCAGCTGCTGAACAAGCATTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGC
 TTAGTGTGTGACCTGTTTTTAAATAAAGTATCTTGAATAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002539

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002539.1](#), [NP_002530.1](#)

RefSeq Size: 2062 bp

RefSeq ORF: 1386 bp

Locus ID: 4953

UniProt ID: [P11926](#)

Cytogenetics: 2p25.1

Domains: Orn_Arg_deC_N

Protein Families: Druggable Genome

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

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1, 3, and 4 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.