

Product datasheet for RN216680

Ddc (NM_001270853) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddc (NM_001270853) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ddc
Synonyms:	AADC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN216680 representing NM_001270853 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATCCCCTGAATCCGGAGAAGAGGGAAGGAGATGGTGGATTATATAGCTGACTATCTGGACGGCA
TTGAGGGACGTCCAGTGTACCCTGACGTGGAGCCTGGCTACCTTCGGGCCCTGATCCCCACCACTGCCCC
CCAGGAGCCAGAAACATATGAGGACATAATCAGAGACATTGAAAAGATAATCATGCCAGGGGTACACAC
TGGCACAGCCCCTACTTCTTCGCTTACTTCCCCACGGCCAGCTCCTACCCAGCTATGCTTGGGACATGC
TGTGCGGGGCTATCGGCTGCATTGGCTTCTCTGGGGAAGTGCCAGCGAAGCCACCTTGGTGGCCCTACT
GGCTGCTCGGACTAAAATGATCCGCCAGCTGCAGGCAGCCTCCCCAGAGCTGACACAAGCTGCTCTCATG
GAAAAGCTTGTGCTTACACATCTGATCAGGCACATTCTCCGTAGAAAAGAGCTGGATTAATTGGTGGAG
TCAAAAATAAAGCAATTCCTTCAGATGGCAACTACTCCATGAGAGCTGCTGCCCTTCGGGAGGCCCTGGA
GAGAGACAAGGCGGCTGGCCTGATTCTTCTTCGTGGTGTACCCTAGGAACCATCTTGTCTGCTCT
TTTGACAATCTCCTAGAAGTGGTCCCCTGCAACCAGGAGGGTGTATGGCTGCACATTTGATGCTGCAT
ACGCAGGCAGTGCCTTTATCTGTCCTGAGTTCGGTATCTTCTGAATGGCGTGGAGTTTGAGATTCCCT
TAACTTTAATCCCACAAGTGGCTTTTGGTGAATTTGACTGCTCTGCCATGTGGGTGAAGAAGGAACCT
GACCTAACCGAAGCCTTTAATATGGACCCTGTTTATCTGAGGCACAGTACCAGGACTCAGGACTCATCA
CTGACTACAGGCACTGGCAAATCCCCTGGGGCGAAGATTTTCGCTCCCTGAAAATGTGGTTTGTTTTAG
AATGTACGGAGTCAAGGGGCTGCAGGCTTACATTCGAAAGCACGTGAAGCTGTCTCATGAGTTTGTAGTCC
CTGGTACGCCAGGACCCTCGCTTTGAAATTTGCACGGAAGTATCCTCGGGTGGTCTGCTTCCGGCTAA
AGGGCTCAACAGTTGAACGAACTCTTTACAAGAATAAACAGCGCCAAAAAATCCACTTGGTTCC
GTGTCGCTCCGAGACAAGTTTGTGCTGCGCTTTCGGTGTGCTCCCGCACTGTGGAGTCTGCCACGTG
CAGCTGGCCTGGGAGCACATCCGAGATCTAGCGAGCAGTGTGCTGAGGGCAGAGAAGAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001270853
Insert Size:	1323 bp
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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001270853.1</u> , <u>NP_001257782.1</u>
RefSeq Size:	4988 bp
RefSeq ORF:	1323 bp
Locus ID:	24311
UniProt ID:	<u>P14173</u>
Cytogenetics:	14q21
Gene Summary:	<p>catalyzes the decarboxylation of L-5-hydroxytryptophan to serotonin and L-3,4-dihydroxyphenylalanine to dopamine [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region compared to variant 1. The resulting protein (isoform b) is shorter but has the same N- and C-termini compared to isoform a. 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.</p>