

Product datasheet for **RN208909**

Ddc (NM_012545) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddc (NM_012545) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ddc
Synonyms:	AADC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208909 representing NM_012545
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCCCGTGAATCCGGAGAAGAGGGAAGGAGATGGTGGATTATATAGCTGACTATCTGGACGGCA
 TTGAGGGACGTCCAGTGTACCCTGACGTGGAGCCTGGCTACCTTCGGGCCCTGATCCCCACCACTGCCCC
 CCAGGAGCCAGAAACATATGAGGACATAATCAGAGACATTGAAAAGATAATCATGCCAGGGGTCACACAC
 TGGCACAGCCCCTACTTCTTCGCTTACTTCCCCACGGCCAGCTCCTACCCAGCTATGCTTGCGGACATGC
 TGTGCGGGGCTATCGGCTGCATTGGCTTCTCCTGGGCTGCAAGCCAGCATGCACAGAGCTGGAGACAGT
 GATGATGGATTGGCTGGGAAGATGCTTGAGCTGCCAGAGGCCTTTTGGCTGGAAGAGCTGGGGAAGGG
 GGAGGAGTGATCCAGGGAAGTCCAGCGAAGCCACCTTGGTGGCCCTACTGGCTGCTCGGACTAAAATGA
 TCCGCCAGCTGCAGGCAGCCTCCCAGAGCTGACACAAGCTGCTCTCATGAAAAGCTTGTGCTTACAC
 ATCTGATCAGGCACATTCCTCCGTAGAAAAGAGCTGGATTAATTGGTGGAGTCAAATAAAAAGCAATTCCT
 TCAGATGGCAACTACTCCATGAGAGCTGCTGCCCTTCGGGAGGCCCTGGAGAGAGACAAGGCGGCTGGCC
 TGATTCCTTTCTTCGTGGTTGTACCCTAGGAACCACATCTTGCTGCTCTTTTGACAATCTCCTAGAAGT
 GGGTCCCATCTGCAACCAGGAGGTGTATGGTGCACATTGATGCTGCATACGCAGGCAGTGCCTTTATC
 TGTCTGAGTTCGGGTATCTTCTGAATGGCGTGGAGTTTGCGAGATTCTTTAACTTTAATCCCCACAAGT
 GGCTTTTGGTGAATTTGACTGCTCTGCCATGTGGGTGAAGAAGAGAAGTACCTAACCGAAGCCTTTAA
 TATGGACCCTGTTATCTGAGGCACAGTACCAGGACTCAGGACTCATCACTGACTACAGGCACTGGCAA
 ATCCCAGTGGGGGAAGATTTGCTCCCTGAAAATGTGGTTTGTTTTGAATGTACGGAGTCAAGGGGC
 TGCAGGCTTACATTCGAAAGCACGTGAAGCTGTCTCATGAGTTTGAGTCCCTGGTACGCCAGGACCTCG
 CTTTGAATTTGCACGGAAGTCATCCTCGGGTTGGTCTGCTTCCGGCTAAAGGGCTCCAACCAAGTTGAAC
 GAAACTCTTTACAAAGAATAAACAGCGCCAAAAAATCCAATTGGTTCCGTGCTGCTCTCCGAGACAAGT
 TTGTGCTGCGCTTTGCGGTGTGCTCCCGCACTGTGGAGTCTGCCACGTGCAGCTGGCCTGGGAGACAT
 CCGAGATCTAGCGAGCAGTGTGCTGAGGGCAGAGAAAAGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012545

Insert Size: 1443 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).

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_012545.4](#), [NP_036677.1](#)

RefSeq Size: 5134 bp

RefSeq ORF: 1443 bp

Locus ID: 24311

UniProt ID: [P14173](#)

Cytogenetics: 14q21

Gene Summary: catalyzes the decarboxylation of L-5-hydroxytryptophan to serotonin and L-3,4-dihydroxyphenylalanine to dopamine [RGD, Feb 2006]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 3 encode the same protein (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.