

## Product datasheet for **MR226067**

### **Ddc (NM\_001190448) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ddc (NM_001190448) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddc
Synonyms:	Aadc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226067 representing NM\_001190448  
 Red=Cloning site Blue=ORF Green=Tags(s)  
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATCCCCTGAATCCGGAGGAGAGGCAAGGAGATGGTGGATTATATAGCTGACTATCTGGATGGCA  
 TTGAGGGTCGTCCAGTGTACCCTGATGTGGAGCCTGGCTATCTTCGGCCCTGATCCCTGCCACTGCCCC  
 CCAGGAGCCAGAAACATACGAGGACATAATCAAAGACATCGAGAAGATAATCATGCCAGGGGTGACACAC  
 TGGCACAGTCCCTATTTCTCGCTTACTTCCCCACGGCTAGCTCATACCCAGCTATGCTTGACAGACATGC  
 TGTGTGGTGTATTGGCTGCATTGGTTTCTCCTGGGCTGCAAGCCAGCGTGCACAGAGCTGGAGACCGT  
 GATGATGGACTGGCTGGGAAGATGCTGGAGCTGCCAGAGGCCTTTTGGCTGGAAGAGCTGGGGAAGGG  
 GGAGGAGTGATCCAGGGAAGTCCAGTGAAGCCACCTTGGTGGCCCTACTGGCTGCTCGGACTAAAGTTA  
 TCCGCCAGCTGCAGGCAGCCTCCCAGAGTTCACACAAGCTGCTATCATGAAAAGCTGGTTGCTTACAC  
 ATCTGATCAGGCCATTCTCTGTAGAAGAGCTGGGTTAATTGGTGAATAAAGCTAAAAGCAGTCCCT  
 TCGGATGGCAACTTTTCCATGAGAGCTTCTGCCCTTCGGGAAGCCCTGGAGCGGACAAGGCAGCTGGCC  
 TGATCCATTCTTTGTGGTGCCTACACTGGGGACCACATCCTGCTGTTCTTTTGACAATCTCCTGGAAGT  
 GGGTCCCATCTGCAACCAGGAGGGTGTGTGGTGCACATTGACGCTGCTTACGCGGGCAGTGCCTTTATC  
 TGTCTGAATCCGGTATCTTCTGAATGGTGTGGAGTTTGAGATTCTTTAACTTTAATCCCCACAAGT  
 GGCTTTTGGTGAATTTGACTGCTCTGCCATGTGGGTGAAGAGGAGGACTGACTTAACCGGAGCCTTTAA  
 TATGGACCCTGTTATCTAAAGCACAGTACCAGGACTCAGGATTCATCACTGACTACAGGCACTGGCAG  
 ATCCCAGCTGGGGCAGCAGTTCGCTCTTTGAAAATGTGGTTTGTTTTGAATGTACGGAGTCAAGGGGC  
 TGCAGGCTTACATCCGAAAGCAGTGGAGCTGTCTCATGAGTTTGAGTCACTGGTACGCCAGGACCTCG  
 CTTTGAATTTGCACAGAAGTATTCTTGGGTTGGTCTGCTTCCGGCTAAAGGGCTCCAATGAGTTGAAC  
 GAAACTCTTTACAAAGAATAAACAGCGCCAAAAAATCCAATTGGTTCCATGTCGCTCTCCGAGACAAGT  
 TTGTGCTACGCTTTGCTGTGTGCCTCGCACTGTGGAGTCTGCCACGTGCAGCTGGCCTGGGAACACAT  
 CAGTGATCTAGCAAGCAGTGTGCTGAGGGCAGAGAAAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226067 representing NM\_001190448  
 Red=Cloning site Green=Tags(s)  
 MDSREFRRRGKEMVDYIADYLDGIEGRPVYPDVEPGYLRPLIPATAPQEPETYEDIKIDIEKIIMPGVTH  
 WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSAASPACTELETVMMDWLGMLELPEAFLAGRAGEG  
 GGVIQGSASEATLVALLAARTKIRQLQAASPEFTQAAMEKLVAYTSDQAHSSVERAGLIGGIKLVKAVP  
 SDGNFSMRASALREALERDKAAGLIPFFVATLGTSSCSFDNLEVGPICNQEGVWLHIDAAYAGSAFI  
 CPEFRYLLNGVEFADSFNPNPKWLLVNFDCSAMWVKRRDLDLTFANMDPVYLLKSHQDSGFITDYRHWQ  
 IPLGRRFRSLKMWVFRMYGVKGLQAYIRKHVELSHEFESLVRQDPRFEICTEVILGLVCFRLKGSNELN  
 ETLLQRINSAKKIHLVPCRLRDKFVLRFAVCARTVESAHVQLAWEHISDLASSVLRRAEKE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001190448

ORF Size: 1440 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

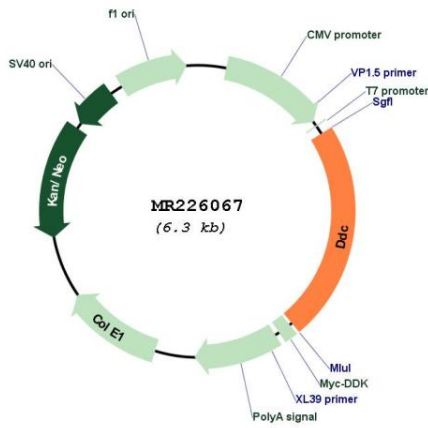
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001190448.1, NP\\_001177377.1](#)  
**RefSeq Size:** 2018 bp  
**RefSeq ORF:** 1443 bp  
**Locus ID:** 13195  
**UniProt ID:** [O88533](#)  
**Cytogenetics:** 11 7.09 cM  
**MW:** 53.9 kDa  
**Gene Summary:** Catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226067