

Product datasheet for **MG226064**

Ddc (NM_016672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddc (NM_016672) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ddc
Synonyms:	Aadc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226064 representing NM_016672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCCCGTGAATCCGGAGGAGAGGCAAGGAGATGGTGGATTATATAGCTGACTATCTGGATGGCA
 TTGAGGGTCGTCCAGTGTACCCTGATGTGGAGCCTGGCTATCTTCGGCCCTGATCCCTGCCACTGCCCC
 CCAGGAGCCAGAAACATACGAGGACATAATCAAAGACATCGAGAAGATAATCATGCCAGGGGTGACACAC
 TGGCACAGTCCCTATTTCTCGCTTACTTCCCCACGGCTAGCTCATACCCAGCTATGCTTGCAGACATGC
 TGTGTGGTGTATTGGCTGCATTGGTTTCTCCTGGGCTGCAAGCCAGCGTGCACAGAGCTGGAGACCGT
 GATGATGGACTGGCTGGGAAGATGCTGGAGCTGCCAGAGGCCTTTTGGCTGGAAGAGCTGGGGAAGGG
 GGAGGAGTGATCCAGGGAAGTCCAGTGAAGCCACCTTGGTGGCCCTACTGGCTGCTCGGACTAAAGTTA
 TCCGCCAGCTGCAGGCAGCCTCCCAGAGTTCACACAAGCTGCTATCATGAAAAGCTGGTTGCTTACAC
 ATCTGATCAGGCGCATTCTCTGTAGAAGAGCTGGGTTAATTGGTGAATAAAGCTAAAAGCAGTCCCT
 TCGGATGGCAACTTTTCCATGAGAGCTTCTGCCCTTCGGGAAGCCCTGGAGCGGGACAAGGCAGCTGGCC
 TGATCCATTCTTTGTGGTGCCTACACTGGGGACCACATCCTGCTGTTCTTTTGACAATCTCCTGGAAAT
 GGGTCCCATCTGCAACCAGGAGGGTGTGTGGTGCACATTGACGCTGCTTACGCGGGCAGTGCCTTTATC
 TGTCTGAATCCGGTATCTTCTGAATGGTGTGGAGTTTGCAGATTCTTTAACTTTAATCCCCACAAGT
 GGCTTTTGGTGAATTTGACTGCTCTGCCATGTGGGTGAAGAGGAGGACTGACTTAACCGGAGCCTTTAA
 TATGGACCCTGTTATCTAAAGCACAGTACCAGGACTCAGGATTCATCACTGACTACAGGCACTGGCAG
 ATCCCAGTGGGGCAGCAGTTCGCTCTTTGAAAATGTGGTTTGTTTTGAATGTACGGAGTCAAGGGGC
 TGCAGGCTTACATCCGAAAGCACGTGGAGCTGTCTCATGAGTTTGAGTCACTGGTACGCCAGGACCCTCG
 CTTTGAATTTGCACAGAAGTATTCTTGGGTTGGTCTGCTTCCGGCTAAAGGGCTCCAATGAGTTGAAC
 GAAACTCTTTACAAAGAATAAACAGCGCCAAAAAATCCAATTGGTTCCATGTCGCTCTCCGAGACAAGT
 TTGTGCTACGCTTTGCTGTGTGCCTCGCACTGTGGAGTCTGCCACGTGCAGCTGGCCTGGGAACACAT
 CAGTGATCTAGCAAGCAGTGTGCTGAGGGCAGAGAAAAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226064 representing NM_016672
 Red=Cloning site Green=Tags(s)

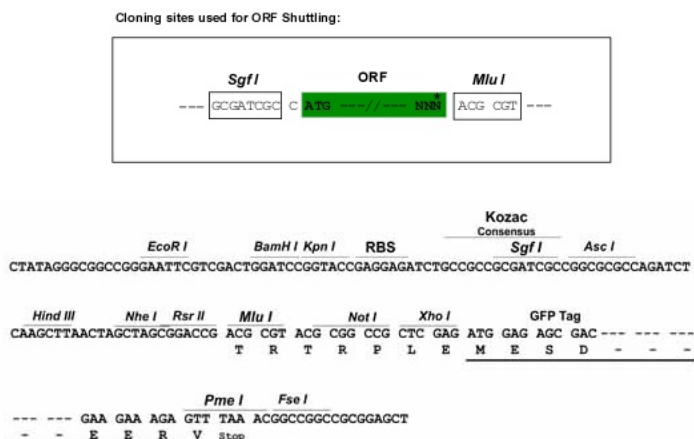
MDSREFRRRGKEMVDYIADYLDGIEGRPVYPDVEPGYLRPLIPATAPQEPETYEDIKIDIEKIIMPGVTH
 WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSAASPACELETVMMDWLGKMLELPEAFLAGRAGEG
 GGVIQGSASEATLVALLAARTKVIQRLQAASPEFTQAAIMEKLVAYTSDQAHSSVERAGLIGGIKLVKAVP
 SDGNFSMRASALREALERDKAAGLIPFFVVATLGTTSCCSFDNLLLEVGPICNQEGLVHLHIDAAYAGSAFI
 CPEFRYLLNGVEFADSFNPNPKWLLVNFDCSAMWVKRRDLTGAFNMDPVYLLKSHQDSGFITDYRHWQ
 IPLGRRFRSLKMWVFRMYGVKGLQAYIRKHVELSHEFESLVRQDPRFEICTEVILGLVCFRLKGSNELN
 ETLLQRINSAKKIHLVPCRLRDKFVLRFAVCARTVESAHVQLAWEHISDLASSVLRRAEKE

TRTRPLE – GFP Tag – V

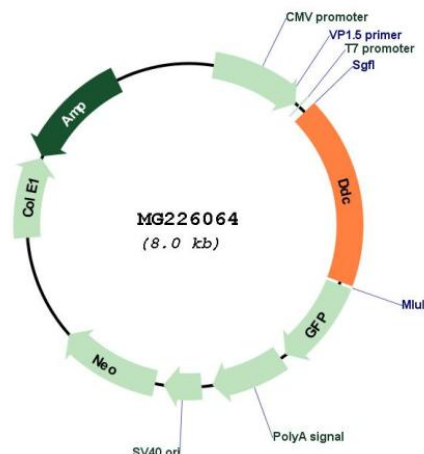
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



- ACCN:** NM_016672
- ORF Size:** 1440 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_016672.4](#), [NP_057881.1](#)

RefSeq Size: 1967 bp

RefSeq ORF: 1443 bp

Locus ID: 13195

UniProt ID: [O88533](#)

Cytogenetics: 11 7.09 cM

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]