

Product datasheet for RR216680

Ddc (NM_001270853) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddc (NM_001270853) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddc
Synonyms:	AADC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216680 representing NM_001270853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCCCTGAATCCGGAGAAGAGGGAAGGAGATGGTGGATTATATAGCTGACTATCTGGACGGCA
TTGAGGGACGTCCAGTGTACCCTGACGTGGAGCCTGGCTACCTTCGGGCCCTGATCCCCACCACTGCCCC
CCAGGAGCCAGAAACATATGAGGACATAATCAGAGACATTGAAAAGATAATCATGCCAGGGGTACACAC
TGGCACAGCCCCTACTTCTTCGCTTACTTCCCCACGGCCAGCTCCTACCCAGCTATGCTTGGGACATGC
TGTGCGGGGCTATCGGCTGCATTGGCTTCTCTGGGGAAGTGCCAGCGAAGCCACCTTGGTGGCCCTACT
GGCTGCTCGGACTAAAATGATCCGCCAGCTGCAGGCAGCCTCCCCAGAGCTGACACAAGCTGCTCTCATG
GAAAAGCTTGTGCTTACACATCTGATCAGGCACATTCTCCGTAGAAAAGAGCTGGATTAATTGGTGGAG
TCAAAAATAAAGCAATTCCTTCAGATGGCAACTACTCCATGAGAGCTGCTGCCCTTCGGGAGGCCCTGGA
GAGAGACAAGGCGGCTGGCCTGATTCTTCTTCGTGGTGTACCCTAGGAACCATCTTGTCTGCTCT
TTTGACAATCTCCTAGAAGTGGTCCCCTGCAACCAGGAGGGTGTATGGCTGCACATTTGATGCTGCAT
ACGCAGGCAGTGCCTTTATCTGTCCTGAGTTCGGTATCTCTGAATGGCGTGGAGTTTGAGATTCCTT
TAACTTTAATCCCACAAGTGGCTTTTGGTGAATTTGACTGCTCTGCCATGTGGGTGAAGAAGAGA
GACCTAACCGAAGCCTTTAATATGGACCCTGTTTATCTGAGGCACAGTACCAGGACTCAGGACTCATCA
CTGACTACAGGCACTGGCAAATCCCCTGGGGCGAAGATTTTCGCTCCCTGAAAATGTGGTTTGTTTT
AATGTACGGAGTCAAGGGGCTGCAGGCTTACATTCGAAAGCACGTGAAGCTGTCTCATGAGTTTGTAGTCC
CTGGTACGCCAGGACCCTCGCTTTGAAATTTGCACGGAAGTATCCTCGGGTGGTCTGCTTCCGGCTAA
AGGGCTCAACAGTTGAACGAACTCTTTACAAGAATAAACAGCGCCAAAAAATCCACTTGGTTCC
GTGTCGCTCCGAGACAAGTTTGTGCTGCGCTTTCGGTGTGCTCCGCACTGTGGAGTCTGCCACGTG
CAGCTGGCCTGGGAGCACATCCGAGATCTAGCGAGCAGTGTGCTGAGGGCAGAGAAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR216680 representing NM_001270853
 Red=Cloning site Green=Tags(s)

MDSREFRRRGKEMVDYIADYLDGIEGRPVYPDVEPGYLRLIPTTAPQEPETYEDIIRDIEKIIMPGVTH
 WHSPYFFAYFPTASSYPAMLADMLCGAIGCIGFSWGSASEATLVALLAARTKMIRQLQAASPELTQAALM
 EKLVAYTSDQAHSSVERAGLIGGVKIKAIIPSDGNYSMRAAALREALERDKAAGLIPFFVVVTLGTTSCCS
 FDNLLEVGPICNQEGVWLHIDAAYAGSAFICPEFRYLLNGVEFADSFNFNPHKWLLVNFDCSAMWVKKRT
 DLTEAFNMDPVYLRHSHQDGLITDYRHWQIPLGRRFRSLKMMWFVFRMYGVKGLQAYIRKHVKLSHEFES
 LVRQDPRFEICTEVILGLVCFRLKGSNQLNETLLQRINSAKKIHLVPCRLRDKFVLRFAVCSRTVESAHV
 QLAWEHIRDLASSVLRAEKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

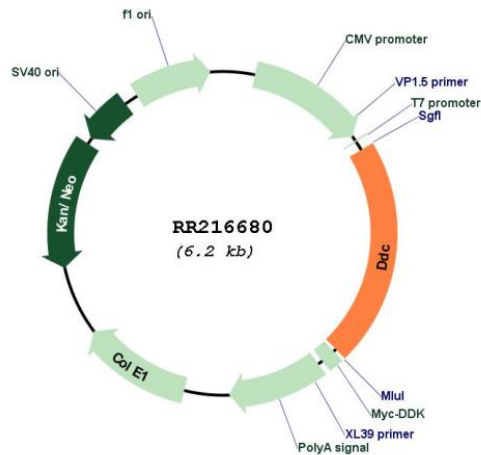
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001270853

ORF Size:	1320 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:	<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:	NM_001270853.1 , NP_001257782.1
RefSeq Size:	4988 bp
RefSeq ORF:	1323 bp
Locus ID:	24311
UniProt ID:	P14173
Cytogenetics:	14q21
MW:	49.9 kDa
Gene Summary:	catalyzes the decarboxylation of L-5-hydroxytryptophan to serotonin and L-3,4-dihydroxyphenylalanine to dopamine [RGD, Feb 2006]