

Product datasheet for **RR205289**

Cdnf (NM_001037543) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdnf (NM_001037543) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cdnf
Synonyms: Armetl1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205289 representing NM_001037543
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGGTGCACCAGTCCGGCTGCCCTGGTACTTTTTGCGCCGGGCTTTGGATCTCCAACCATGTGCTGG
 CACAGGGCTGGAGGCCGGTGTGCGATCGAGGGCTGACTGTGAAGTATGCAAAGAGTTCTTAAACCGATT
 CTACAACCTCTTGCTAACAGAGGAATAGACTTTTCTGTGGATACCATAGAGGAAGAGCTGATCAGCTTT
 TGC CGCGACACCAAGGGAAAAGAAAACCGCTGTGCTATTATCTAGGAGCTACCAAAGACTCGGCCACCA
 AGATCCTAGGTGAAGTCACTCGTCCCATGAGTGTACACATGCCACGGTGAAGATTTGTGAGAAGCTGAA
 GAAGATGGACAGCCAGATCTGCGAGCTGAAATATGAGAAGAAATTGGACTTGAATCTGTGGACCTGTGG
 AAAATGAGGGTTGCAGAGCTGAAGCAGATCCTTACAGCTGGGGGAAGAGTGCAGGGCCTGCGCGGAGA
 AGCATGACTACGTGAACCTCATTAAAGAACTGGCCCCAAATACGTAGAGACGCGCCCCAAACAGAGCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205289 representing NM_001037543
 Red=Cloning site Green=Tags(s)

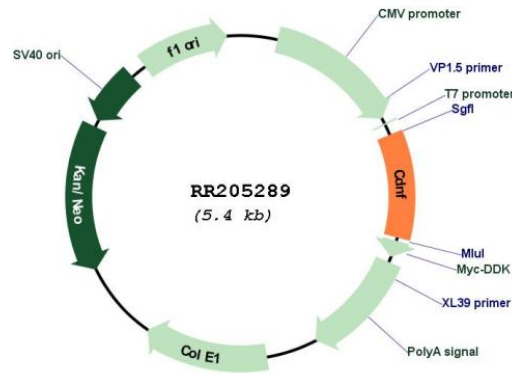
MRCTSPAALVTFCAGLWISNHVLAQGLEAGVRSRADCEVCKEFLNRFYNSLLTRGIDFVSDTIEEELISF
 CADTKGKENRLCYLLGATKDSATKILGEVTRPMSVHMPTVKICEKLLKMSQICELKYEKKLDLESVDLW
 KMRVAELKQILHSWGEECRACA EKHDYVNLIKELAPKYVETRPQTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001037543

ORF Size: 561 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_001037543.1](#), [NP_001032632.1](#)

RefSeq Size: 624 bp

RefSeq ORF: 564 bp

Locus ID: 361276

UniProt ID: [P0C5I0](#)

Cytogenetics: 17q12.3

MW: 21.4 kDa

Gene Summary: Trophic factor for dopamine neurons. Prevents the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. When administered after 6-OHDA-lesioning, restores the dopaminergic function and prevents the degeneration of dopaminergic neurons in substantia nigra.[UniProtKB/Swiss-Prot Function]