

## Product datasheet for **MG217152**

### Cdnf (NM\_177647) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cdnf (NM\_177647) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Cdnf  
**Synonyms:** 9330140G23; Armet1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217152 representing NM\_177647  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGTGCATCAGTCCAACCTGCTCTGGTGACCTTTTGCGCCGGTTTTGTATCTCGAACCTGTGCTGG  
 CGCAGGGCCTGGAGGCCGGTGTGGGGCCGAGGGCTGACTGTGAAGTATGTAAGAATTCTAGACCGATT  
 CTACAACCTCCCTGCTAAGCAGAGGCATAGACTTTTCTGCGGACCCATAGAGAAAGAGCTGCTCAACTTT  
 TGCTCAGATGCCAAAGGAAAAGAAAACCGCTGTGCTATTATCTGGGGCCACCACAGATGCAGCCACCA  
 AGATCCTAGGAGAAGTCACTCGTCCCATGAGTGTACACATACCTGCCGTGAAGATTTGTGAGAAGCTAAA  
 GAAGATGGACAGCCAGATCTGTGAGCTGAAATACGGGAAGAAGCTGGACTTGGCGTCGGTGGACCTGTGG  
 AAGATGAGAGTGGCAGAGCTAAAGCAGATCCTTCAGAGATGGGGGAAGAGTGCAGGGCATGTGCGGAGA  
 AAAGTGACTACGTGAACCTCATTAGAGAGCTGGCCCCAAATATGTAGAGATATACCCCCAAACGGAGCT  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217152 representing NM\_177647  
 Red=Cloning site Green=Tags(s)

MRCISPTALVTFCAAGFCISNPVLAQGLEAGVGPRADCEVCKEFLDRFYNSLLSRGIDFSADTIEKELLNF  
 CSDAKGKENRLCYLGGATDAATKILGEVTRPMSVHIPAVKICEKLLKMSQICELKYGKLLDLASVDLW  
 KMRVAELKQILQRWGEECRACAEKSDYVNLIRELAPKYVEIYPQTEL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

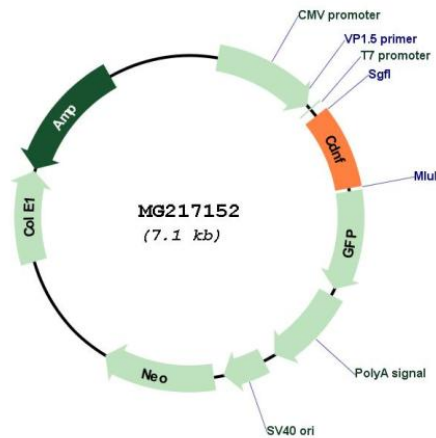


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_177647

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\\_177647.4](#), [NP\\_808315.1](#)

**RefSeq Size:** 3013 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 227526

**UniProt ID:** [Q8CC36](#)

**Cytogenetics:** 2 A1

**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 (By similarity).[UniProtKB/Swiss-Prot Function]