

Product datasheet for **MR226282**

Nr4a2 (NM_001139509) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Nr4a2 (NM_001139509) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Nr4a2 |
| Synonyms: | HZF-3; NOT; Nurr1; RNR-1; TINOR; TINUR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR226282 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTGTTGTTCAAGCGCAGTATGGTCTCGCTCAAGGAGCCAGCCCCGCTTCTCAGAGCTACAGTT
 ACCACTCTTCGGGAGAATACAGCTCCGATTTCTTAAGTCCAGAGTTTGTCAAGTTTAGCATGGACCTCAC
 CAACACTGAAATTAAGTCCACCCTTCTCTCCAGCTTCAAGTACCTTTATGGACAACACTACAGCACAGGC
 TACGACGTCAAGCCACCTTGCTTGTACCAATGCCCTGTCCGGACAGCAGTCTCCATTAAGGTAGAAG
 ACATTCAGATGCACAACACTACCAGCAACACAGCCACCTGCCCTCAGTCCGAGGAGATGATGCCACACAG
 CGGGTCGGTTTACTACAAGCCCTTTCGCCCCGACACCCAGCACCCCGAGCTTCCAGGTGCAGCATAGC
 CCGATGTGGGACGATCCGGGCTCCCTTCACAACTTCCACCAGAAGTACGTGGCCACTACGCATATGATCG
 AGCAGAGGAAGACACCTGTCTCCCGCTGTCACTTCTCTTTAAGCAGTGCAGCCCGGCGACTCCTGT
 GTCTAGCTGCCAGATGCGCTTCGACGGGCTCTGCACGTCCCATGAACCCGGAGCCCGGGGACGCCAC
 CACGTAGTGGATGGGACAGCTTCCGCCGTGCCAACCCATTGCAAGCCGGCATCCATGGGCTTCCCGG
 GCCTGCAGATCGCCACGCATCGCAGTTGCTTGACACGCAGGTGCCCTCGCCGCCGTCCCGGGGCTCTCC
 CTCCAATGAGGGTCTGTGCGCTGTTTGGCGTGACAACGCGGCCTGTGACACTACGGTGTTCGCACTTGT
 GAGGGCTGCAAAGGTTTCTTAAAGCGCACGGTGCAAAAAACGCGAAATATGTGTGTTTAGCAAATAAAA
 ACTGCCAGTGGACAAGCGCCGCGAAACCGTTGTGACTGTGCGTTTCAAGTGCCTAGCTGTTGG
 GATGGTTAAAGAAGTGGTTCGCACGGACAGTTTAAAGCCGGAGAGTTCGTTTACCCTCGAAGCCGAAG
 AGCCACAGGATCCCTCTCCCCCTCACCTCCGGTGTGACTGATCAGTGCCTCGTCCAGAGCCAGCTCG
 ATTCCAATCCGGCAATGACCAGCTGGACTATCCAGGTTCCAGGCAACCCCTGACTATCAGATGAGTGG
 AGATGATACCCAACATATCCAGCAGTTCTACGATCTCCTGACCGGCTCTATGGAGATCATCAGAGGGTGG
 GCAGAGAAGATCCCTGGCTTTGCTGACCTGCCAAAGCCGACCAGGACCTGCTTTTTGAATCAGTTTCT
 TAGAATATTTGTTCTGCGCTTAGCATAACAGTCCAACCCAGTGGAGGTAAGTCACTTTTGAATG
 GGTGGTCTTGACAGGTTGCAATGCGTGCCTGGCTTTGGGGAATGGATTGATTCCATTGTTGAATTTCC
 TCCAATTCGAGAATATGAACATCGACATTTCTGCCTTCTCTGCATTGCTGCCCTGGCTATGGTACAG
 AGAGACACGGGCTCAAGGAACCAAGAGAGTGGAAAGCTACAAAACAAATGTAAATTGCTTAAAGA
 CCATGTGACTTTCAATAATGGGGTTTGAACCGACCAACTACCTGTCTAACTGTTGGGAAGCTGCCA
 GAACTCCGACCCCTTTGCACACAGGGCCTCCAGCGCATTTTCTACCTGAAATTGGAAGACTTGGTACCAC
 CACCAGCAATAATTGACAACTTTTCTGGACACCTTACCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

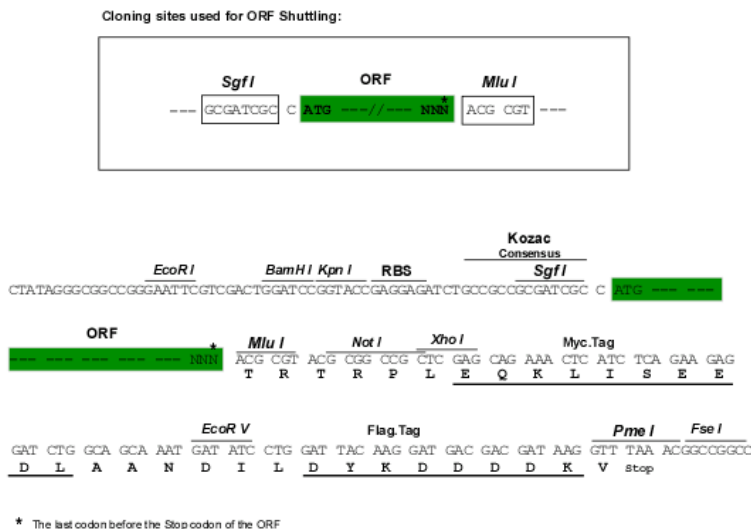
>MR226282 protein sequence
 Red=Cloning site Green=Tags(s)

MPCVQAQYSSSPQGASPASQSYSHSSGEYSSDFLTPEFVKFSMDLTNTEITATTSLSFSTFMDNYSTG
 YDVKPPCLYQMLPSGQSSIKVEDIQMHNYQQHSHLPPQSEEMPHSGSVYKPSPPPTSTPSFVQVHS
 PMWDDPGSLHNFHQYVATTHMIEQRKTPVSRLSLFSFKQSPPGTVPSSCQMRFDGPLHVMPNPEPAGSH
 HVVDGQTFVAVPNPIRKPASMGFPGLQIGHASQLLDTQVPSPSRGSPSNEGLCAVCGDNAACQHYGVRTC
 EGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRQYCRFQKCLAVGMVKEVVRTDSLKGRGRPLSKPK
 SPQDPSPPSPVSLISALVRAHVDSNPAMTSLDYSRFQANPDYQMSGDDTQHIQQFYDLLTGSMEIIRGW
 AEKIPGFADLPKADQDLLESAFLELFVLRRLAYRSNPVEGKLIFCNGVVLHRLQCVRGFGWIDSDIVEFS
 SNLQNMNIDISAFSCIAALAMVTERHGLKEPKRVEELQNKIVNCLKDHTVFNNGGLNRPNYLSKLLGLP
 ELRTLCTQGLQRIFYLKLLEDLVPPPAIIDKLFDLTLPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001139509

ORF Size: 1797 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_001139509.1](#), [NP_001132981.1](#)

RefSeq Size: 3026 bp

RefSeq ORF: 1797 bp

Locus ID: 18227

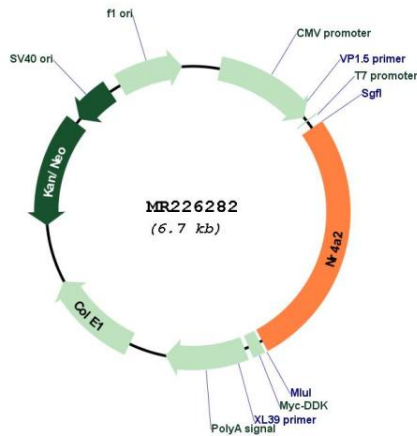
UniProt ID: [Q06219](#)

Cytogenetics: 2 31.66 cM

MW: 66.6 kDa

Gene Summary: Transcriptional regulator which is important for the differentiation and maintenance of mesodiencephalic dopaminergic (mdDA) neurons during development. It is crucial for expression of a set of genes such as SLC6A3, SLC18A2, TH and DRD2 which are essential for development of mdDA neurons.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226282