

## Product datasheet for **RR213443**

### **Nr4a2 (NM\_019328) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr4a2 (NM_019328) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr4a2
Synonyms:	Nurr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213443 representing NM\_019328  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCTTGTGTT**CAGGCGCAGTATGGGTCTCGCCTCAAGGAGCCAGCCCGCTTCTCAGAGCTACAGTT**  
 ACCACTCTTCGGGAGAATACAGCTCCGATTTCTTAACTCCAGAGTTTGTCAAGTTTAGCATGGACCTCAC  
 CAACACTGAAATTACTGCCACCCTTCTCTCCCGAGTT**CAGTACCTTTATGGACA**ACTACAGCACAGGC  
 TACGACGTCAAGCCACCTTGCTTGTACCAAATGCCCTGTCCGGACAGCAGTCCCTCATTAAAGGTAGAAG  
 ACATTCAGATGCACA**ACTACCAGCAACACAGCCACCTGCCCCCTCAGTCCGAGGAGATGATGCCACACAG**  
 CGGGTCGGTTTACTACAAGCCCTCTTCGCCCCGACACCCAGCACCCCGGGCTTCCAGGTGCAGCATAGC  
 CCGATGTGGGACGATCCGGGCTCCCTTCA**CAACTTCCACCAGA**ACTACGTGGCCACTACGCATATGATCG  
 AGCAGAGGAAGACACCTGTCTCCCGCTT**CACTCTTCTCTTAAAGCAGT**CGCCCCGGGCACTCCTGT  
 GTCTAGCTGCCAGATGCCTTTGACGGGCTCTGCACGTCCCATGAACCCGGAGCCCGGGGCAGCCAC  
 CACGTAGTGGATGGGCAGACCTTCGCCGTGCCAATCCATT**CGCAAGCCGGCATCCATGGGCTTCCCGG**  
 GCCTGCAGATCGGCCACGCGTCGCAGTTGCTT**GACACGCAGGTGCCCTCGCCGCCGTCCCGGGGCTCTCC**  
 CTCCAATGAGGGTCTGTGCGCTGTTTGCGGTGACAACGCGGCCTGT**CAGCATTACGGTGTTCGCACTTGT**  
 GAGGGCTGCAAAGGTTCTTTAAAGCGCACGGTGCAAAAAACGCGAAATATGTGTGTTTAGCAATAAAAA  
 ATTGCCAGTGGATAAGCGCCGCCGAAATCGTTGT**CAGTACTGT**CGGTTT**CAGAAGTGCCTGGCTGTTGG**  
 GATGGTTAAAGAAGTGGTTGCACGGACAGTTTAAAGGCCGGAGAGT**CGTCTACCTCAAACCGAAG**  
 AGCCCACAGGATCCCTCTCCCCCTCACCTCCGGT**GAGTCTGATCAGTCCCTCGT**CAGAGCCCACGTCG  
 ACTCCAATCCGCAATGACCAGCCTGGACTAT**CCAGGTTCCAGGCAAACCTGACTATCAGATGAGTGG**  
 AGATGATACTCAACATATCCAGCAGTTCTACGATCTCCTGACTGGCTCTATGGAGATCATCAGAGGGTGG  
 GCAGAGAAAGATTCTGGCTTTGCTGACCTGCCAAAGCCGATCAGGACCTGCTTTTTGAATCAGCTTTCT  
 TAGAATTATTTGTTCTACGCTTAGCATA**CAGTCCAACCCAGTGGAGGGTAAACTCATCTTTTGAATGG**  
 GGTGGTCTTGACAGGTTGCAATGCGTGCCTGGCTTTGGGGAATGGATTGATTCCATTGTTGAATTCTCC  
 TCCA**ACTTGCAGAATGAACATCGACATTTCTGCCTTCTCCTGCATTGCTGCCCTGGCTATGGTACAG**  
 AGAGACACGGGCTCAAGGAACCAAGAGAGTGGAGAGCTACAAAACAAATTGTAATTGTCTTAAAGA  
 CCATGTGACTTTCAATAATGGGGATTGAACCGACCAACTACCTGTCCAACTGTTGGGAAGCTCCCA  
 GA**ACTTGCACCCTTTGCACACAGGGGCTCCAGCGCATTTTCTACCTGAAATTGGAAGACTTGGTACCAC**  
 CACCAGCAATAATTGACAACTTTTCTGGACACCTTACCTTTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213443 representing NM\_019328  
 Red=Cloning site Green=Tags(s)

MPCVQAQYSSPQGASPASQSYSHSSGEYSSDFLTPEFVKFSMDLTNTEITATTSLSFSTFMDNYSTG  
 YDVKPPCLYQMPLSGQQSSIKVEDIQMHNYQQHSHLPPQSEEMPHSGSVYYPKSSPPTSTPGFVQVQHS  
 PMWDDPGSLHNFHQYVATTHMIEQRKTPVSRSLFSFKQSPPGTPVSSCQMRFDGPLHVPMNPEPAGSH  
 HVVDGQTFAVPNPIRKPASMGFPGLQIGHASQLLDTQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRTC  
 EGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRRCQYCRFQKCLAVGMVKEVVRTDSLKRRGRRLPSKPK  
 SPQDPSPSPVSLISALVRAHVDSNPAMTSLDYSRFQANPDYQMSGDDTQHIQQFYDLLTGSMEIRGW  
 AEKIPGFADLPKADQDLLFESAFLELFLRLAYRSNPVEGKLIFCNGVVLHRLQCVRGFGEWIDSIVEFS  
 SNLQNMNIDISAFSCIAALAMVTERHGLKEPKRVEELQNKIVNCLKDHVTFNNGGLNRPNYLSKLLGKLP  
 ELRTLCTQGLQRIFYLKLEDLVPPPAIIDKFLDLPF

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_019328

**ORF Size:** 1794 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\\_019328.3](#), [NP\\_062201.2](#)

**RefSeq Size:** 2582 bp

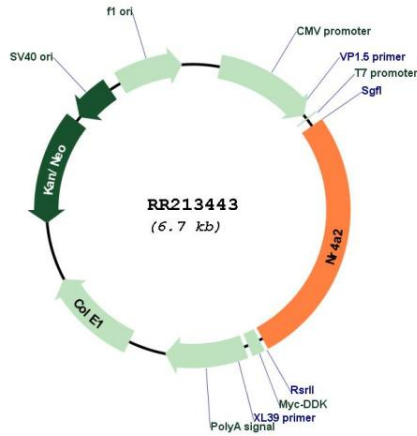
**RefSeq ORF:** 1797 bp

**Locus ID:** 54278

**UniProt ID:** [Q07917](#)

**Cytogenetics:** 3q21  
**MW:** 66.6 kDa  
**Gene Summary:** nuclear receptor and transcription factor; plays a role in development and maintenance of neurons synthesizing the neurotransmitter dopamine [RGD, Feb 2006]

**Product images:**



Circular map for RR213443