

Product datasheet for **RG221280**

Nurr1 (NR4A2) (NM_006186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nurr1 (NR4A2) (NM_006186) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nurr1
Synonyms:	HZF-3; NOT; NURR1; RNR1; TINUR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221280 representing NM_006186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTGTGTTCAAGCGCAGTATGGTCTCGCCTCAAGGAGCCAGCCCGCTTCTCAGAGCTACAGTT
 ACCACTCTTCGGGAGAATACAGCTCCGATTTCTTAAGTCCAGAGTTTGTCAAGTTTAGCATGGACCTCAC
 CAACACTGAAATCACTGCCACCCTTCTCTCCAGCTTCACTACCTTTATGGACAACACTACAGCACAGGC
 TACGACGTCAAGCCACCTTGCTTGTACCAATGCCCTGTCCGGACAGCAGTCTCCATTAAGGTAGAAG
 ACATTCAGATGCACAACCTACCAGCAACACAGCCACCTGCCCCAGTCTGAGGAGATGATGCCGACTC
 CGGGTCGGTTTACTACAAGCCCTCTCGCCCCGACGCCACCACCCGGGCTTCCAGGTGCAGCACAGC
 CCCATGTGGGACGACCCGGGATCTCCACAACCTCCACCAGAACCTACGTGGCCACTACGCACATGATCG
 AGCAGAGGAAAACGCCAGTCTCCCGCTCTCCCTCTTCTCTTTAAGCAATCGCCCTGGCACCCCGGT
 GTCTAGTTGCCAGATGCGCTTCCAGCGGCCCTGCACGTCCCATGAACCCGGAGCCCGCGGCAGCCAC
 CACGTGGTGGACGGGACACCTTCGCTGTGCCAACCCATTGCAAGCCCGCTCCATGGGCTTCCCGG
 GCCTGCAGATCGGCCACGCTCTCAGTCTCGACACGCAGGTGCCCTCACCGCCGTCCGGGGCTCCCC
 CTCCAACGAGGGGCTGTGCGCTGTGTGGGACAACGCGGCTGCCAACACTACGGCGTGCACCTGT
 GAGGGCTGCAAAGGCTTCTTAAAGCGCACAGTGCAAAAAATGCAAAATACGTGTGTTTAGCAAATAAA
 ACTGCCAGTGGACAAGCGTCCCGGAATCGCTGTCACTGCGGATTTAGAAAGTGCCTGGCTGTTGG
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 GCAGAGAAGATCCCTGGCTTCGACAGACCTGCCAAAGCCGACCAAGACCTGCTTTTTGAATCAGTTTCT
 TAGAACTGTTTGTCTTCGATTAGCATACAGTCCAACCCAGTGGAGGTAAGTCACTTTTGCATAGG
 GGTGGTCTTGACAGTTGCAATGCGTTCGTGGCTTTGGGGAATGGATTGATTCCATTGTTGAATTCTCC
 TCCAATTCGAGAATATGAACATCGACATTTCTGCCTTCTCTGCATTGCTGCCCTGGCTATGGTCACAG
 AGAGACACGGGCTCAAGGAACCAAGAGAGTGAAGAAGTGCAAAACAAGATTGTAATTTGCTCAAAGA
 CCACGTGACTTTCAACAATGGGGGTTGAACCGCCCAATTTATTTGTCAAAAGTGTGGGAAGCTCCCA
 GAACCTTGTACCCTTTGCACACAGGGGCTACAGCGCATTTTCTACCTGAAATTGGAAGACTTGGTGCCAC
 CGCCAGCAATAATTGACAACTTTTCTGGACACTTTACCTTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221280 representing NM_006186
 Red=Cloning site Green=Tags(s)

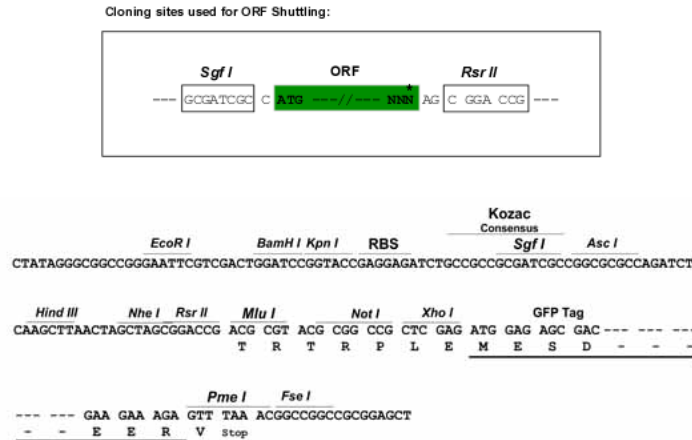
MPCVQAQYGSSPQGASPASQSYSHSSGEYSSDFLTPEFVKFSMDLTNTEITATTSLSFSFSTFMDNYSTG
 YDVKPPCLYQMPLSGQQSSIKVEDIQMHNYQQHSHLPPQSEEMPHSGSVYYKPSPTPTTPGFVQVQHS
 PMWDDPGSLHNFHQYVATTHMIEQRKTPVSRSLFSFKQSPPGTPVSSCQMRFDGPLHVPMPNPEPAGSH
 HVVDGQTFVAVPNPIRKPASMGFPGLQIGHASQLLDTQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRTC
 EGCKGFFKRTVQKNAKYVCLANKNCPVDKRRNRRCQYCRFQKCLAVGMVKEVVRTDSLKRRRRLPSKPK
 SPQEPSPPSPVSLISALVRAHVDSNPAMTSLDYSRFQANPDYQMSGDDTQHIQFQYDLLTGSMEIIRGW
 AEKIPGFADLPKADQDLLESAFLELFVLRLAYRSNPVEGKLIFCNGVVLHRLQCVRGFGEWIDSIVEFS
 SNLQNMNIDISAFSCIAALAMVTERHGLKEPKRVEELQNKIVNCLKDHVTFNNGGLNRPNYLSKLLGKLP
 ELRTLCTQGLQRIFYLKLLEDLVPPPAIIDKLFDLTLFP

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_006186

ORF Size: 1794 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

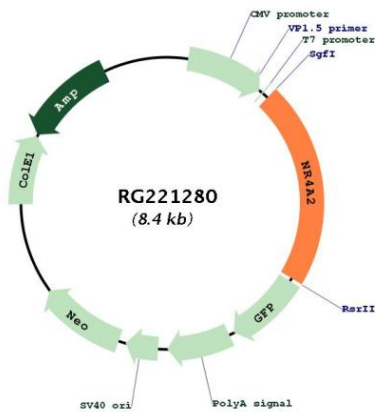
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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_006186.4](#)
RefSeq Size: 3447 bp
RefSeq ORF: 1797 bp
Locus ID: 4929
UniProt ID: [P43354](#)
Cytogenetics: 2q24.1
Domains: HOLI, zf-C4
Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary: This gene encodes a member of the steroid-thyroid hormone-retinoid receptor superfamily. The encoded protein may act as a transcription factor. Mutations in this gene have been associated with disorders related to dopaminergic dysfunction, including Parkinson disease, schizophrenia, and manic depression. Misregulation of this gene may be associated with rheumatoid arthritis. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG221280