

Product datasheet for **SC116298**

Nurr1 (NR4A2) (NM_006186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nurr1 (NR4A2) (NM_006186) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nurr1
Synonyms:	HZF-3; NOT; NURR1; RNR1; TINUR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006186, the custom clone sequence may differ by one or more nucleotides

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ATGCCTTGTGTTTCAGGCGCAGTATGGGTCCTCGCCTCAAGGAGCCAGCCCCGCTTCTCAGAGCTACAGTT
ACCACTCTTCGGGAGAATACAGCTCCGATTTCTTAAGTCCAGAGTTTGTCAAGTTTAGCATGGACCTCAC
CAACTACTGAAATCACTGCCACCCTTCTCTCCCAGCTTCACTACCTTTATGGACAACACTACAGCACAGGC
TACGACGTCAAGCCACCTTGCTTGTACCAATGCCCTGTCCGGACAGCAGTCTCCATTAAAGGTAGAAG
ACATTCAGATGCACAACCTACCAGCAACACAGCCACCTGCCCCCCAGTCTGAGGAGATGATGCCGCACTC
CGGGTCGGTTTACTACAAGCCCTCTCGCCCCGACGCCACCACCCGGGCTTCCAGGTGCAGCACAGC
CCCATGTGGGACGACCCGGGATCTCTCCACAACCTCCACCAGAACACTCGTGGCCACTACGCACATGATCG
AGCAGAGGAAAACGCCAGTCTCCCGCTCTCCCTCTTCTCTTTAAGCAATCGCCCCCTGGCACCCCGGT
GTCTAGTTGCCAGATGCGCTTCGACGGGCCCTGCACGTCCCATGAACCCGGAGCCCGCCGGCAGCCAC
CACGTGGTGGACGGCAGACCTTCGCTGTGCCAACCCTTTCGAAGCCCGCTCCATGGGCTTCCCGG
GCCTGCAGATCGGCCACGCGTCTCAGTGTCTGCACGCAGGTGCCCTCACCGCCGTCCGGGGCTCCCC
CTCAACGAGGGGCTGTGCGCTGTGTGTGGGACAACCGGCTGCCAACACTACGGCGTGCACACTGT
GAGGGCTGCAAAGGCTTCTTTAAGCGCACAGTGCAAAAAAATGCAAAATACGTGTGTTTAGCAAATAAAA
ACTGCCAGTGGACAAGCGTCGCCGGAATCGTGTGAGTACTGCCGATTTAGAAAGTGCCTGGCTGTTGG
GATGGTCAAAGAAGTGGTTCGCACAGACAGTTTAAAAGGCCGGAGAGGTCGTTTGCCTCGAAACCGAAG
AGCCACAGGAGCCCTCTCCCCCTTCGCCCGGCTGAGTCTGATCAGTGCCTCGTCAGGGCCATGTGC
ACTCAACCCGGCTATGACCAGCCTGGACTATTCAGGTTCCAGGCAACCCTGACTATCAAATGAGTGG
AGATGACACCCAGCATATCCAGCAATTCATGATCTCTGACTGGCTCCATGGAGATCATCCGGGGCTGG
GCAGAGAAGATCCCTGGCTTCGACAGCTGCCAAAGCCGACCAAGACCTGCTTTTTGAATCAGCTTCT
TAGAACTGTTTGCCTTCGATTAGCATACAGTCCAACCCAGTGGAGGTAAGTCACTTTTGCATGG
GGTGGTCTTGACAGGTTGCAATGCGTTTGGGGAATGGATTGATTCCATTGTTGAATTTCC
TCCAACCTGCAGAATATGAACATCGACATTTCTGCCTTCTCCTGCATTGCTGCCCTGGCTATGGTACAG
AGAGACACGGGCTCAAGGAACCAAGAGAGTGAAGAAGTCAAAAACAAGATTGTAATTTGCTCAAAGA
CCACGTGACTTTCAACAATGGGGGTTGAACCGCCCAATTTTGTCAAACCTGTTGGGGAAGCTCCCA
GAACCTCGTACCCTTTGCACACAGGGGCTACAGCGCATTTTCTACCTGAAATTGGAAGACTTGGTCCAC
CGCCAGCAATAATTGACAACTTTTCTGGACACTTTACCTTTCTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006186 unedited

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ACCTGGTTTTGTAACCCCTCCTAGTAGGGCGGCAAACCCATTCGGCACGAGGGGCGG
CCAGGGCCAGTCCGCCCGGGCTCGCGCACGGCTCCCGGTCCCTTTTGCCTGTCCAGC
CGGCCGCTGTCCCTGCTCCCTCCCTCCGTGAGGTGTCCGGGTTCCCTTCGCCAGCTCT
CCCACCCCTACCCGACCCCGGGCGCCGGGCTCCCTTTTTGAACTGCACTTCGGCAGAGTT
GAATGAATGAAGAGAGACGCGGAGAACTCCTAAGGAGGAGATTGGACAGGCTGGACTCCC
CATTGCTTTTCTAAAAATCTTGAAACTTTGCTTTCATTGAATTACGACACTGTCCACC
TTTAATTTCTCGAAAACGCTGTAACCTCGGCTGAAGCCATGCCTTGTGTTACGGCGCAG
TATGGGTCCTCGCTCAAGGAGCCAGCCCGCTTCTCAGAGCTACAGTTACCACTCTTCG
GGAGAATACAGCTCCGATTTCTTAAGTCCAGAGTTTGTCAAGTTTAGCATGGACCTCAC
AACTGAAATCACTGCCACCCTTCTCTCCCAGCTTCACTACCTTTATGGACAACACTAC
AGCACAGGCTACGACGTCAAGCCACCTTGCTTGTACCAAAATGCCCTGTCCGGACAGCAG
TCCTCCATTAAGGTAGAAGACATTCAGATGCACATCTACCATGCACACAGCCACCTGCC
CCCAGTCTGATGAGATGATGCCGCACTCCCGGTCCGTTTACTACAAGCCCTCCTTGCCC
CCGACGCCACCCCGGGCTTCCAGTGCAGCACAGNCCCCTGTGGGACGACCCGGGAT
CTCTCCACAACCTCCACCAGACTACGTGCCCCCTACGCCATGATCGAGCAGAAGAAACGC
CGTCTCCCGCCTTTCCTTTTCTCCTAT
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006186 unedited TCTAGAGTCGAGNNNTTTAAAAT TTGGAATATTTATTCATAAATAGGCACAAAATAATTTAAAAAGCCAACTGGATTGGGGA AATTTACAAGCCTTTGCCTTTTCAACTCATGCCACCCACGCAACATTTAGTTTTACTAT ATATTACAGCTTTCTTTACAGCAAAAACTTTGAAGTCTTGTTAAAGGGCAATACTTGGG GGGCCCCTTAAAAAGGTCTCTGGGGGTGTGTGCGTGTGTATGTGTGTGGCGCTTACATT TGGTGAAGTCAACAACCAAGCATGGCCAAACATTTCCATTATACCTTATAGCAATCT TTCTTCTGAACAACAACTGGTTTTTAACTGAGAATAAAAAAGTTTATACCACTGGATTG TGTGGAGCCCATGTTCTAAATCCAGGATGCCCCGGAGCCAAAATGCCCTTTCAGGTTCTG CCTGCAGGTTAGGAAAACCAACAGTTTTGGGTTGTGTGTTGTCTTCTTTAAGGATCAAG GGGGCTAGGAGGTTACANAAATGGGGGGCACCTTGAGCTGAACTGCTCACACGGCTA TCTTTGCCATGTGACTTGCCCCCTTTGACAGTTTCCACTATCATTCCAGTCTCCTTTG AAGCGCTGGGAAGGAGGCTTAAAAAGGAAAGTGTCCAGAAAAAGTTGGCATTATTGGTGG GGGGGGCCCCAACCTTCCAATTTAGGTAAAAATGGCGCGACCCCTGGGGGCAAGGG TCCAAATTTTGGGAGCTCCTCACACAGTTGGAACATAAATTGGGGCCGGCAACCCCC ATTGGGGAAAGACCAGGGGCGTTTGAAAAATTTACAATTTGTTTTGGGAANTTTCCCTC TTGGGGGGCCTTGACCGGGCTCTTTGTGCCATTCCGCGGGCCATGCCGAGAAGGGCAA ATGTCAGGTTATTCTGACGTGGGGGAGATCACATGGGATCTTCTCTCCCGGCCGACG CT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006186
Insert Size:	2870 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_006186.2](#), [NP_006177.1](#)

RefSeq Size: 3546 bp

RefSeq ORF: 3546 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]