

Product datasheet for SC114329

NR2E3 (NM_016346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2E3 (NM_016346) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR2E3
Synonyms:	ESCS; PNR; rd7; RNR; RP37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114329 sequence for NM_016346 edited (data generated by NextGen Sequencing)

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ATGGAGACCAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCTGCGCCTGCAGT
GGGGCTGCCTCCAGGAAGGAGTCTCCAGGCAGATGGGCCTGGGGGAGGATCCCACAGGC
GTGAGCCCTCGCTCCAGTGCCGCGTGTGCGGAGACAGCAGCAGCGGAAGCACTATGGC
ATCTATGCCTGCAACGGCTGCAGCGGCTTCTTCAAGAGGAGCGTACGGCGGAGGCTCATC
TACAGGTGCCAGGTGGGGCAGGGATGTGYCCCGTGGACAAGGCCACCGCAACCACTGC
CAGGCCTGCCGGCTGAAGAAGTGCCTGCAGGCGGGGATGAACCAGGACGCCGTGCAGAAC
RAGCGCCAGCCGAAGCACAGCCAGGTCCACCTGGACAGCATGGAGTCCAACACTGAN
NNNNNNNNNAGTCCCTGGTGGCTCCCCGGCCCCGGCAGGGCGCAGCCACGGGGCCCC
ACACCCATGTCTGCAGCCAGAGCCCTGGGCCACCWCTTTCATGGCCAGCCTTATAACAGCT
GAAACCTGTGCTAAGCTGGAGCCAGAGGATGCTGATGAGAATATTGATGTACCAGCAAT
GACCCTGAGTTCCCTCCTCTCCATACTCTTCTCCCTCCCTGCGGCCTGGACAGCATC
CATGAGACCTCGGCTCGCCTACTCTTNNNNNNNCAAGTGGGCCAAGAACCTGCCTGTG
TTCTCCAGCCTGCCCTTCCGGGATCAGGTGATCCTGCTGGAAGAGGCGTGGAGTGAACCTC
TTTCTCTCGGGCCATCCAGTGGTCTCTGCCTCTGGACAGCTGTCTCTGCTGGCACCG
CCCAGGCCTCTGCTGCCGGTGGTGCCAGGGCCGGCTCACGCTGGCCAGCATGGAGACG
CGTGTCTGCAGGAACTATCTCTCGGTTCCGGCATTGGCGGTGGACCCACGGAGTTT
GCCTGCATGAAGGCCTTGGTCTCTTCAAGCCAGAGACGCGGGCCCTGAAGGATCCTGAG
CACGTAGAGGCCTTGACAGGACCAAGTCCCAAGTGATGCTGAGCCGGCACAGCAAGGCCAC
CACCCAGCCAGCCCGTGAGGTGA

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Clone variation with respect to NM_016346.2
270 c=>y;361 g=>r;420 g=>n;421 t=>n;422 c=>n;423 c=>n;424 c=>n;425 g=>n;426 g=>n;427
c=>n;428 c=>n;429 g=>n;515 a=>w;688 a=>n;689 t=>n;690 g=>n;691 g=>n;692 c=>n;693
c=>n;694 g=>n;695 t=>n;1064 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016346 unedited</p> <pre>TCATAATTGTAACGACTCATATAGGCGCCGCGCAATCANATCTGGTACCGAGCTCGGC TCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTGCCCTGTAACCCATGGAGAC CAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCTGCGCCTGCAGCTGGGGCTGC CTCCAGGAAGGAGTCTCCAGGCAGATGGGGCTGGGGGAGGATCCCACAGGCGTGAGCCC CTCGCTCCAGTGCCCGTGTGCGGAGACAGCAGCAGCGGGAAGCACTATGGCATCTATGC CTGCAACGGCTGCAGCGGCTTCTTCAAGAGGAGCGTACGGCGGAGGCTCATCTACAGGTG CCAGGTGGGGCAGGGATGTGTCCCGTGGACAAGGCCACCAGCAACCAAGTCCAGGCTG CCGGCTGAAGAAGTGCCTGCAGGCGGGATGAACCAGGACGCCGTGCAGAACAAGCGCCA GCCCGAAGCACAGCCAGGTCCACCTGGACAGCATGGAGTCCAACACTGAGTCCCAGGCC GGAGTCCCTGGTGGCTCCCCGGCCCCGGCAGGGCGCAGCCACGGGGCCCCACACCCAT GTCTGCAGCCAGAGCCCTGGCCACCTTTCATGGCCAGCCTTATAACAGCTGAAACCTG TGCTAAGTGGAGCCAGAGGATGCTGATGAGAATATTGATGTACCAGCAATGACCCTGA GTTCCCTCCTCTCCATACTCTTCTTCTCCCTGCGGCTGGACAGCATCCATGAGAC CTCGGCTCGCTACTTTCATGGCCGTCAGTGGGCCAAGAACCCTGCCTGTGNTCTCCAG CCTGCCATTNCGGATCAGGTATCTACCGCCTGCCTGCTGNGGAGCTAGGCTGGNNCT GAGTCANGGCGCCACTCNAGTACCAGACAGGCACACACATCCCACGAGTATGATGC ACACGCTTGGATGGTGTGGCTGGGGCACACATACTCTGATC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016346 unedited</p> <pre>GNGANAGCACTGGGNNAGGTCACAGGNATGCCACCCGGGATCTGTTTCAGGAACAGCTAT GACCGCGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTCTGGGAGAGTGTGGGA GAGGCAGAGAAAGTTAGAGGTCAGGGACAGATGAGTGGGTGGGCGCATGCTCAGGTCAC CTCACGGCTGGCTGGGTGGTGGGCCTTGCTGTGCCGGCTCAGCATCACTTGGGACTGG TCTGCAAGGCCTCTACGTGCTCAGGATCCTTCAGGCCCGCGTCTCTGGCTTGAAGAGG ACCAAGGCCTTTCATGCAGGCAAACCTCCGTGGGGTCCACCGCAATGCCCGGAACCGAGAG ATAGTTTCTGCAGGACACGCGTCTCCATGCTGGCCAGCGTGAGCCGGCCCTGGGACCA CCGGCAGCAGAGGCTCGGGCGGTGCCAGCAGAGGACAGCTGTCCAGAGGCAGAGACCAC TGGATGGCCCCGAGGAGAAAGAGTTCACCTCCACGCCTCTCCAGCAGGATCACCTGTGCT NCAGACAGGGGTGCCTGTTATGGCAGACACACAGCTTCTCTGGCTCAGTCTGGAGCCTCT GCCACCATCTCAGGCACCAAGGAATGGGGAAGTGTCTGCTGAGACCCGAGAATGCTCT CCTGACATCAGCCAGAGGCTCAGAGCTCTGGNGATTTGGCACCATCCGGCTCAGCTGCCT ATCATCTGAGACAACCTGGTTCCATCCAGAGCTGCAGCTGGGACATTNTANGAACGCCAG NACATTGGGGAGTTGGGCAGCCTCAGAGACTGCTCATGAGTGCCTAAGTTGATGTATTCA AGGGGTGGGGCTGACTCTTCTGAGTGCT</pre>
Restriction Sites:	Please inquire
ACCN:	NM_016346
Insert Size:	2300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_016346.2, NP_057430.1</u>
RefSeq Size:	2102 bp
RefSeq ORF:	1104 bp
Locus ID:	10002
UniProt ID:	<u>Q9Y5X4</u>
Cytogenetics:	15q23
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	<p>This protein is part of a large family of nuclear receptor transcription factors involved in signaling pathways. Nuclear receptors have been shown to regulate pathways involved in embryonic development, as well as in maintenance of proper cell function in adults. Members of this family are characterized by discrete domains that function in DNA and ligand binding. This gene encodes a retinal nuclear receptor that is a ligand-dependent transcription factor. Defects in this gene are a cause of enhanced S cone syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes isoform a.</p>