

Product datasheet for **SC308926**

NR2E3 (NM_014249) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2E3 (NM_014249) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR2E3
Synonyms:	ESCS; PNR; rd7; RNR; RP37
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_014249 edited
 GCCCTGTAACCCATGGAGACCAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCT
 GCGCCTGCAGCTGGGGCTGCCTCCAGGAAGGAGTCTCCAGGCAGATGGGGCTGGGGGAG
 GATCCACAGGCGTGAGCCCTCGCTCCAGTGCCGCGTGTGCGGAGACAGCAGCAGCGGG
 AAGCACTATGGCATCTATGCCTGCAACGGCTGCAGCGGCTTCTCAAGAGGAGCGTACGG
 CGGAGGCTCATCTACAGGTGCCAGGTGGGGCAGGGATGTGCCCGTGGACAAGGCCAC
 CGCAACCAAGTCCAGGCCCTGCCGGCTGAAGAAGTGCCTGCAGGCGGGGATGAACCAGGAC
 GCCGTGCAGAACGAGCGCCAGCCGCAAGCACAGCCAGGTCCACCTGGACAGCATGGAG
 TCCAACACTGAGTCCCGGCCGAGTCCCTGGTGGCTCCCCGGCCCCGGCAGGGCGCAGC
 CCACGGGGCCCCACCCCATGTCTGCAGCCAGAGCCCTGGGCCACCACTTCATGGCCAGC
 CTTATAACAGCTGAAACCTGTGCTAAGCTGGAGCCAGAGGATGCTGATGAGAATATTGAT
 GTCACCAGCAATGACCCTGAGTTCCTCTCCATACTCTCTTCTCCCCCTGCGGC
 CTGGACAGCATCCATGAGACCTCGGCTCGCTACTTTCATGGCCGTCAAGTGGGCCAAG
 AACCTGCCTGTGTTCTCCAGCCTGCCCTCCGGGATCAGGTGATCCTGCTGGAAGAGCG
 TGGAGTGAACCTTTCTCCTCGGGGCCATCCAGTGGTCTCTGCCTCTGGACAGCTGCTCT
 CTGCTGGCACCGCCGAGGCCTCTGCTGCCGGTGGTGCCAGGGCCGGCTCACGCTGGCC
 AGCATGGAGACGCGTGTCTGCAGGAACTATCTCTCGGTTCCGGGCATTGGCGGTGGAC
 CCCACGGAGTTTGCTGCATGAAGGCCTTGGTCCTTTCAAGCCAGAGACGCGGGGCTG
 AAGGATCTGAGCACGTAGAGGCCTTGCAGGACCAGTCCCAAGTATGCTGAGCCAGCAC
 AGCAAGGCCACCACCCAGCCAGCCCGTGAGGTTTGGGAAATGCTCCTGCTCTCCCG
 TCTTTGAGGTTTACTGCGGAACGCATCGAGCTCCTTTTTCCGCAAGACCATAGGG
 AATGTTTCCAAGCACTCTGAAAACAATCTACTGAAACGAAACATTTGCCTACTCTTTGC
 CCCAGCAATTCCTCGTAGGTGTGTGTACCCAGCAGAAATGCCACCGAAAGATATTGTAA
 GAATATTCATAGCAGCTTTATTCATAATAGCCCCAACTGTATATTGATGGTAGGATGAA
 TTAACAAGTTGTGGTATATTCATATAATGAAAAATAATTTAAAAAGAATGAATTACGGAT
 ACATGTGGCAACACAGGTAACCTTACAGACATAAAAGTTGAATGAAAGAAGCCAGGCCG
 AAGTTCATTTATGCAGAGTTCAGGAACAGGCAAGACTAATTGACAATAATAGAAGTTGG
 AATAGTGGTACTTCTGGGTGGTGGGGATTGATACAGAGGGGGCTCATGGGAGCCCTCT
 GGTGTACCAGAAATGTTGATTTGATCTGGGCAGTGGTTTCAAAATGTATTCATACGTA
 ATAATTCATTGAGCTGTGCACTTTATTTGTTAGACCTCAATAAAAAAGTAAAAA
 AAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014249 unedited
 TGAGACCATATTTGATACCATTACTATAGGCGGCCGGAATCACACTGGTACCGAGCTCG
 GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTGCCCTGTAACCCATGGAG
 ACCAGACCAACAGCTCTGATGAGCTCCACAGTGGCTGCAGCTGCGCCTGCAGCTGGGGCT
 GCCTCCAGGAAGGAGTCTCCAGGCAGATGGGGCTGGGGGAGGATCCACAGGCGTGAGC
 CCCTCGCTCCAGTGCCGCGTGTGCGGAGACAGCAGCAGCGGGAAGCACTATGGCATCTAT
 GCCTGCAACGGCTGCAGCGGCTTCTTCAAGAGGAGCGTACGGCGGAGGCTCATCTACAGG
 TGCCAGGTGGGGCAGGGATGTGCCCGTGGACAAGGCCACCAGTCCAGGCTCCAGGCTCCAGG
 TGCCGGCTGAAGAAGTGCCTGCAGGCGGGGATGAACCAGGACGCCGTGCAGAACGAGCGC
 CAGCCGCAAGCACAGCCAGGTCCACCTGGACAGCATGGAGTCCAACACTGAGTCCCGG
 CCGGAGTCCCTGGTGGCTCCCCGGCCCCGGCANGGCGCAGCCACGGGGCCCCACACCC
 ATGTCTGCAGCCAGAGCCTTGGGCAACACTTCATGGCCAGCCTTATAACAGCTGAAACC
 CTGTGCTAAACTGGAGCCAGAAGATCCTGATGAGAATATTGATGTCACCAGCCATGACCC
 TGGAGTCCCTCCTCTCCCTACTCTTCCCTCCCTGCGGCCTGGACAGCATTCTGA
 AAACCTGGGCTGGCAACTTTTATGGGCCTTCAATGGGGCCAAGGAACCTGGCTTGGTTT
 CCCACCTTGCCCTTTCGGGGATCAGGAATCCTGCTGGAAAAACCTGGAGGGAAACCTT
 TCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014249 unedited CAGNAAAGCACTGGGNGAGGGTCACAGGGATGCCACCCGGGCTCTGTTTCAGGAAACAGCT ATGACCGCGGCCGCCCTTTTTTTTTTTTTTTTACTTTTTTATTGAGGTCTAACAAAATAAA GTGCACAGCTCAATGAATTATTACGTATGAATACATTTGTGAAACCACTGCCAGATCAA AATCAACATTTCTGGTACACCAGAGGGCTCCCATGAGCCCCCTGTATCAATCCCCAC CACCCAGAAGTAACCACTATTCCAACCTTCTATTATTGTCAATTAGTCTTGCCCTGTTCTG AACTCTGCATAAATGGAACCTTCGGCCTGGCTTCTTTCATTCAACTTTTATGTCTGTGAAG TTTACCTGTGTTGCCACATGTATCCGTAATTCATTCTTTTTAAATTATTTTTTCATTATAT GAATATACCACAACCTGTTAATTCATCCTACCATCAATATACAGTTTGGGGCTATTATGA ATAAAGCTGCTATGAATATTCTTACAATATCTTTCGGTGGGCATTTCTGCTGGGTACACA CACCTACGAGGAATTGCTGGGGCAAAGAGTAGGCAAATGTTTCGTTTCAGTAGATTGTTT TCCAGAGTGCTTGAAACATTTTACCTCCCCCCCCACTAGTTTTTGAACATATCACAAA AGAACTTCTCCATTGGAAGTATCCCTATGGTCTTGCAGAAAAAGAGGAGCTCGATGCGT CCCCCAGGATAAACCTCAAAGACGGGAGGAGCAGGACCAATTTCCCAAACCTACGGGCT GGCTGGGTGGTGGGGCCTTGCTGGGCTGGCTCAACATCAATTTGGGACTGGTCTCGGAGG GCCTCTAGTGCCAAGATCCCTTAAGGCCCGGGT
Restriction Sites:	Please inquire
ACCN:	NM_014249
Insert Size:	1800 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_014249.2</u> , <u>NP_055064.1</u>
RefSeq Size:	1999 bp
RefSeq ORF:	1233 bp
Locus ID:	10002
UniProt ID:	<u>Q9Y5X4</u>
Cytogenetics:	15q23
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Gene Summary:

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]

Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (b) contains a longer C-terminus compared to isoform a.