

## Product datasheet for SC118089

### NR2E1 (NM\_003269) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NR2E1 (NM_003269) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR2E1
Synonyms:	TLL; TLX; XTLL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118089 sequence for NM_003269 edited (data generated by NextGen Sequencing)

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ATGAGCAAGCCAGCCGGATCAACAAGCCGCATTTTAGATATCCCCTGCAAAGTGTGTGGC
GACCGCAGCTCGGGAAGCACTACGGGGTCTACGCCTGCGACGGCTGCTCAGTTTTTTC
AAACGGAGCATCCGAAGGAATAGGACCTATGTCTGCAAATCTGGAAACCAGGGAGGCTGT
CCGGTGGACAAGACGCACAGAAACCAGTGCAGGGCGTGTGGCTGAAGAAGTGTGGAA
GTCAACATGAACAAGACGCCGTGCAGCAGGCGGGGGCCTCGGACGTCCACCATCCGC
AAGCAAGTGGCCCTCTACTTCCGTGGACACAAGGAGGAGAACGGGGCCGCGCGCACTTT
CCCTCGGCGGCGCTCCCTGCGCCGGCTTCTTCACCGCGGTACGCAGCTGGAGCCGCAC
GGCCTGGAGCTGGCCGCGGTGTCCACCACTCCAGAGCGGCAGACCCTCGTGAGCCTGGCT
CAGCCCACGCCAAGTACCCCATGAAGTGAATGGGACCCCAATGTATCTCTATGAAGTG
GCCACGGAGTCGGTGTGTGAATCAGCTGCCAGACTTCTTTCATGAGCATCAAGTGGGCT
AAGAGTGTGCCAGCCTTCTCCACGCTGTCTTTGCAAGACCAGCTGATGCTTTTGGAAAGT
GCTTGGAGAGAACTGTTTGTCTAGGAATAGCACAATGGGCCATTCCGGTTGATGCTAAC
ACTCTACTGGCTGTATCTGGCATGAACGGTGACAACACAGATCCAGAAAGTGAACAAG
ATCATATCTGAAATACAGGCTTTACAAGAGGTGGTGGCTCGATTTAGACAACCTCCGGTTA
GATGCTACTGAATTTGCCTGTCTAAAATGCATCGTCACTTTCAAAGCCGTTTCTACACAT
AGTGGTTCTGAACTGAGAAGTTTCCGGAATGCTGCCCCATTGCAGCCCTTCAAGATGAG
GCTCAGCTAACGCTCAACAGCTACATCCATACCAGATATCCCACCTCAACCCTGTCGCTTT
GGAAAACCTCTGTTGCTTTTGGCAGCTTTACGTTCTATTAGCCCATCAACTATAGAAGAA
GTGTTTTTCAAAAAAACCATCGGCAATGTGCCAATTACAAGACTGCTTTCAGATATGTAC
AAATCCAGTGATATCTAA

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Clone variation with respect to NM\_003269.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003269 unedited  
 GGGGGGGGGGGNNNNNNNTTTTCTCCCCCNCGGTTCAGAATTGTATACGACTCACTA  
 TAGGCGGCGCGNAATTCGCACGAGGCATTTTCGTGTCTCCATCTCTGTCTTTCAACATC  
 CCTCTCTGTCTTCTTCTTCTTCTCCTCAGTCTTCTGTCCATCTCTCCATCTGTCTGTC  
 CATGTGTGTGCCATATCAAGCAGCATTCCCAGCAGCTGCGGTTTTGCAAGAGCCGGGAA  
 GAAACTTAAGGATGCTTAAATTTCCACTGTTGGACGAATCTGAGCGCCCAGGGAGCAGC  
 GCAGCGCGGACTGACACCCACCTGTCCCGCCCAGGAGCCTTGACGGCTGGAGGGCGGT  
 GGAGAGCGGCGGCGCCCGCCNAGAGCCGGGCGCTGCCGGCCGGGACTCGGGCAGCGCC  
 CACCAACCGCTCCGCCCCGGGACAGCCAGCATGAGCAAGCCAGCCGGATCAACAAGCCGC  
 ATTTTAGATATCCCCTGCAAAGTGTGTGGCAGCCGAGCTCGGGGAAGCACTACGGGGTCT  
 TACGCCTGCGACGGCTGCTCAGGTTTTTTCAAACGGAGCATCCGAAGGAATAGGACCTAT  
 GTCTGCAAATCTGAAACCAGGGAGGCTGTCCGGTGGACAAGACGCACAGAAACCAGTGC  
 ANGGCGTGTGCGCTGAAGAAAGTGTGGAAGTCAACATGAACAAAGACGCCGTGCAGCAC  
 GAGCGGGGCGCTCGGACGTCCACCATCCGAAGCAAGTGGCCCTCTACTCCGTGGACAC  
 AAAGAGNAGACGGGGCCGNCGCGCACTTCCCTCGCGGCGCTCCCTGCGCNCGCTTTTC  
 TACC CGGT CACGCAGCTTGAAGCCGCACGNNCTGNACTGNNCCCCGTGTCCACCACT  
 CAGAACGGCAGACCCTCGTGAGCTGGCTCAGCCACCCCAATAC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003269 unedited  
 CCTTTGGACGCGCGCAATTTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAATCAATAT  
 ATTTTTATTCTTTGTAATAACAATGAGTACAACCTTTAACTTCACAAATCAGTTAATTC  
 ACTTTGTACAAGAAAAGTTTTACTCATCCTATGATAGTCCAAGTCTGAATTTTTTTTCC  
 TCAGTGCTAGTACCTAATAAATCAAATGTGAAAAGTACAGCAGCTATTTAAAAATGTTT  
 GTTTCTACATTTCCATAAGTATAGAGTCATACCAAAGGAGCAGCTTAAAGGTAGGACGG  
 TGTTCATTCAAGCTTTACTAG  
 AAACAGTTTTTCGAAAGGCATTGAAGAGTCTCAGGCTGTAGCAATGGATCAGTCAAGA  
 ACCTTTTAGCATTATTCATCTCCTTGAAGTTCCTTCTGCAATTACGTCCATATTCGTT  
 TCCTGTCTGGTGTGACTTGTGCACCACGAGTTTGACCCCCACTGCCTTTGGTTTCAGC  
 ACTATGTTAACGGGACAGCAATCTACCTCACTCAATCACTCATCTCCACTTTATTTGGTT  
 TTGCTGTTTTTATTCATCCTCCCTTGACTTATGTTCTTTTAGTAAAGCTCTTCTCTTTTT  
 GACATGTTATCCAACCTGAAGTNTGGTGAGAATCTATTTTGGCCATCAATTCCTTTTGA  
 CAAGGTTGCCTGGCCTATGGNTTTTAAAAAGAAGAAGAAAGACANNAGAAAGAGAAGAAA  
 GGAAAAAAGAGATTGGGAAAAAGCAATCCATGGGATAAGCTACTTTCACTTATTACTCAG  
 TNCTGAGGCCACTTATAATGTTTACAATAGAGGGGAAACTTTGATACACTTTATTTAAAA  
 CTACATATTTTAAATAAAGCTCAACATACGGATTTTGAGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003269

**Insert Size:**

2770 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:**

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\\_003269.2](#), [NP\\_003260.1](#)

**RefSeq Size:** 3225 bp

**RefSeq ORF:** 1158 bp

**Locus ID:** 7101

**UniProt ID:** [Q9Y466](#)

**Cytogenetics:** 6q21

**Domains:** HOLI, zf-C4

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Gene Summary:** The protein encoded by this gene is an orphan receptor involved in retinal development. The encoded protein also regulates adult neural stem cell proliferation and may be involved in control of aggressive behavior. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (2) contains an alternate 5' exon and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.