

Product datasheet for **SC118058**

NR2C2 (NM_003298) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR2C2 (NM_003298) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR2C2
Synonyms:	TAK1; TR4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_003298 edited
 ATGACCAGCCCCTCCCCACGCATCCAGATAATCTCCACCGACTCTGCTGTAGCCTCACCT
 CAGCGCATTACAGGGCTCTGAACCTGCCTCTGGCCATTGAGTGTTTTACATCTTTGAAC
 AAAGAGAAGATTGTCACAGACCAGCAGACAGGACAGAAAATCCAGATAGTCACCGCAGTG
 GACGCCTCCGGATCCCCAAACAGCAGTTATCCTGACCAGCCAGATGGAGCTGGAAC
 GGGAAAGTGATCCTGGCTTCCCCAGAGACATCCAGCGCCAAGCAACTCATATACCACC
 TCAGACAACCTCGTCCCTGGCAGGATCCAGATTGTCACGGATTCTGCCTCTGTGGAGCGT
 TTAAGTGGGAAGACGGAGTCCAGCGGCCCCAGTGGTAGAGTACTGTGTGGTCTGTGGC
 GACAAAGCCTCCGGCCGTCACTATGGGGCTGTCAGTTGTGAAGGTTGCAAAGTTTCTTC
 AAAAGGAGTGTGAGGAAAAATTTGACCTACAGCTGCCGGAGCAACCAAGACTGCATCATC
 AATAAACATCACCGAACCGCTGTCAAGTTTTGCCGGCTGAAAAATGCTTAGAGATGGGC
 ATGAAAATGGAATCTGTGCAGAGTGAACGGAAGCCCTTCGATGTGCAACGGGAGAAACCA
 AGCAATTTGTGCTGCTTCAACTGAGAAAACTATATCCGGAAAGACCTGAGAAGTCCCCTG
 ATAGTACTCCCACGTTTGTGGCAGACAAAGATGGAGCAAGACAAACAGGTCTTCTTGAT
 CCAGGGATGCTTGTGAACATCCAGCAGCCTTTGATACGTGAGGATGGTACAGTTCTCCTG
 GCCACGGATTCTAAGGCTGAAACAAGCCAGGGAGCTCTGGGCACACTGGCAAATGTAGTG
 ACCTCCCTTGCCAACCTAAGTGAATCTTTGAACAACGGTGACACTTCAGAAATCCAGCCA
 GAGGACCAGTCTGCAAGTGAATAACTCGGGCATTGATACCTTAGCTAAAGCACTTAAT
 ACCACAGACAGCTCCTCTTCTCCAAGCTTGGCAGATGGGATAGACACCAGTGGAGGAGGG
 AGCATCCACGTATCAGCAGAGACCAGTCGACACCCATCATTGAGGTTGAAGGCCCCCTC
 CTTTCAGACACACAGTCACATTTAAGCTAACAAATGCCAGTCCAATGCCAGAGTACCTC
 AACGTGCACTACATCTGTGAGTCTGCATCCCGTCTGCTTTTCTCTCAATGCACTGGGCT
 CGGTAAATCCCAGCCTTTCAAGCACTTGGCAGGACTGCAACACCAGCCTTGTGCGGGCC
 TGCTGGAATGAGCTCTTACCCTCGGCCAGTGTGCCAGGTCATGAGTCTCTCC
 ACCATCTGGCTGCCATTGTCAACCACCTGCAGAACAGCATCCAGGAAGATAAACTTTCT
 GGTGACCGGATAAAGCAAGTCATGGAGCACATCTGGAAGCTGCAGGAGTTCTGTAACAGC
 ATGGCGAAGCTGGATATAGATGGCTATGAGTATGCATACCTTAAAGCTATAGTTCTCTTT
 AGCCCCGATCATCCAGGTTTACCAGCACAAAGCCAGATTGAAAAATCCAAGAAAAGGCA
 CAGATGGAGTTGCAGGACTATGTTCAAGAACTACTCAGAAGACACCTACCGATTGGCC
 CGGATCCTCGTTGCCTGCCGCACTCAGGCTGATGAGCTCCAACATAACAGAAGAACTT
 TTTTTACTGGTCTCATTGGCAATGTTTCGATAGACAGCATAATCCCCTACATCCTCAAG
 ATGGAGACAGCAGAGTATAATGGCCAGATCACCGAGCCAGTCTATAG

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003298 unedited
 CAAAACCATTCGCACGAGGAGAAAACCAACAGTGAGATCAAGAATTGTTCTTAATGATC
 TTGGTTACCATGGCTACAAATATGGAGGGGCTGGTTCAGCACAGAGTGGGACCCAGCA
 GGTGGCTGAGGTAACACGTACACAGACCTCTCGGCCGGAATCTCCAGGGATGACCAGCCT
 CTTCTCGCATCCAGATAATCTCCACCGACTCTGCTGTAGCCTCACCTCAGCGCATTGAG
 GGCTCTGAACCTGCCTCTGGCCATTGAGTGTTTTACATCTTTGAACAAAGAGAAGATT
 GTCACAGACCAGCAGACAGGACAGAAAATCCAGATAGTCACCGCAGTGGACGCCTCCGGA
 TCCCCAAACAGCAGTTATCCTGACCAGCCAGATGGAGCTGGAACGGGAAGGTGATC
 CTGGCTTCCCCAGAGACATCCAGCGCCAAGCAACTCATATACCACCTCAGACAACCTC
 GTCCTGGCAGGATCCAGATTGTCACGGATTCTGCCTCTGTGGAGCGTTTACTGGGGAAG
 ACGGACGTCCAGCGGCCCCAGGTGGTAGAGTACTGTGTGGTCTGTGGCGACAAAGCCTCC
 GGCCGTCACTATGGGGCTGTCAGTTGTGAAGGTTGCAAAGGTTTCTTCAAAGGAGTGTG
 AGGAAAAATTTGACCTACAGCTGCCNGAGCAACCAAGACTGCATCATCAATAAACATCAC
 CGGAAACGCTGTCAAGTTTTGCCGGCTGGAAAAATGCTTAGAGATGGGCATGAAAAATGGAA
 TCTGTGCAGAGTGAACGAAAGCCCTTCCATGTGCAACGGAAGGAACCAAGCAATTGTGCT
 GCTTACCTGAGAAAATATATCCCGAAAAGACTGAAAAGTCCCCTGGAAGCTACTCCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003298 unedited GGCCGCAATCTAGCGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTGCCTTTGAGAATTT CTAAATACAAATTGAGTTAAAAGATTGTTCCAAAATCTGCTGCTTCATCAAAAGGCATTA AAACATTTCTTATGTCAGGAAAGGATCCTACTAGTCTTTTAATTGCTATTGTCTGGGATT AACAGATAAGGAGAAACCAGACAGGAAATGGCTAACATATGGAATATTTGCACATACCA AAATACCACTACTTTTCTTTGTATGTGAACGGTCCTGGAAGGATTCTGTTGCTCCTTGGC AGGTGTGTGGTTTGCCTATAGACTGGCTCCGGTGATCTGGCCATTATACTCTGCTGTCT CCATCTTGAGGATGTAGGGGATTATGCTGTCTATCGAAACATTGCCAATGAGACCAGTAA AAAAAAGCTCTTCTGCTATGTTGGAGCTCATCACCCCGAGTGCCGGCAGGCGAACGAGGA TCCGGGCCATCGGTAGGTGTCTTCTGAGTAGGTTTTCTGAACATAGAGCTGGACCTGCA TCTGTGCCCTTTCTTGAATTTTTGAATCTGGCTTGTGCTGGAGCAACCTGGAAGACCGG GGCTAAAAAACACTTTTCCCTTGAAGTTTCGCCCCCTGTAGTCTCGTTCTGCCACTTAA GCGTGTGTAGCCCAACCGGCTCGCACTACCACGAGGGCGCCGGGCTGGCTTTTCCCCG GCCGCGAAAGGTGCCCTGCTCGGTTCTTATTTACAAGTGTAGCATTCCCCGCCTATGG CGCCAAATTCTCCTCTCCCCACCGGTCCCCGGGCGGGGAAGAGCGTTACCAGCCG CCGCTCGCCGCCGCCCTCCCCGACCATCATAGTGTTAGGGTCTATCGCCCGCCTCGT ATGTAGGCCGAGCACACGCTCCCTCGTTCGTTGTGTGGGGCCGCCGACGCCCGCTCG AACTGCT
Restriction Sites:	NotI-NotI
ACCN:	NM_003298
Insert Size:	2350 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:	NM_003298.2 , NP_003289.2
RefSeq Size:	2416 bp
RefSeq ORF:	1848 bp
Locus ID:	7182
UniProt ID:	P49116
Cytogenetics:	3p25.1
Domains:	HOLI, zf-C4

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

Gene Summary: This gene encodes a protein that belongs to the nuclear hormone receptor family. Members of this family act as ligand-activated transcription factors and function in many biological processes such as development, cellular differentiation and homeostasis. The activated receptor/ligand complex is translocated to the nucleus where it binds to hormone response elements of target genes. The protein encoded by this gene plays a role in protecting cells from oxidative stress and damage induced by ionizing radiation. The lack of a similar gene in mouse results in growth retardation, severe spinal curvature, subfertility, premature aging, and prostatic intraepithelial neoplasia (PIN) development. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.