

## Product datasheet for **SC321359**

### **PNRC2 (NM\_017761) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PNRC2 (NM_017761) Human Untagged Clone
Tag:	Tag Free
Symbol:	PNRC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_017761.2  
 AGAAGGAGAAGGTCGGGTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGGTGTTCCG  
 TGGGCTTTGTCCGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCGACGTGCA  
 GAGGGAGCCGCTGCCCGTTAGTTCCGAGCTTGAAGTCACTAGGACTTCTCTCAAACCTTG  
 TGTGCTGAGGAGACTCAGATGTTGGCCTCAGCTCCTAGGCTGAACTCAGCAGATCGGCC  
 ATGAAAACCTTGTATTGAGACAAAGGAAGGATCTGTGAGAAAGCAACACTTGTATCT  
 TGGGCTTGGCAGCAAGGAAGGACAGGTAGTGGAGATCTGCAATCTGAAAAGCAGACT  
 GAAAGGTGACAAAGAAGCTGAAGATGGGTGGTGGAGAGAGGTATAACATTCCAGCCCTC  
 AATCTAGAAATGTTAGTAAGAACCAACAACAGCTTAACAGACAGAAAGACCAAGGAACAGA  
 ATTCCCAGATGAAGATTGTTTATAAGAAAAAGAAAGAGGACATGGTTATAAATCATCAG  
 CAGCTGCCTGGCAGGCCATGCAAAATGGGGGAAGAACAAAAATTTTCAAATAATCAA  
 GTTGAATTCTAGCTTATCAGGTCCAGGTTACTTTTTAAATCTCAAGCTAATCAGAACT  
 ATGCTGGTGCCAAATTTAGTGAGCCGCCATCACCAAGTGTCTTCCCAAACCAAGCC  
 ACTGGGTCCTGTTTCTTTAATCCTTCAGATAAGGAAATAATGACATTTCAACTAAAA  
 CCTTACTTAAAGTACAGGTATAAAATAAGACAAATGTTTAAATTTAGTTATGTTACGGGA  
 TAGTTGTCAATTGGTCTGAAACAAATTCGCTAGGGAATCTATTTGTGTAGAACTAATTAA  
 TGTAACAAAAACAGACCATCTCGTGTGTGTGCACTGTGATATAATGGTAGTATCAGTGC  
 AACTTTAATGATTGACTTGATATTAAGTGTCTCAACTGAGTAACTTTTAAAGTGGAAAC  
 CAAGTTTATAGATTTGGGGAGTGGTAAAGGAATCAGCTTTTTCTATTGTTAGGGGAAGACAG  
 TAATTTATCATTATGGACCAAGTATGTTGAAAGTTGGTGAATCGGATTATAAGCTTC  
 TAGCTAACACAAGGATTCAGAATTAGGTAACATCTGAAGGTTTATGATATTAGAAACAC  
 CCAAACCAAGTAAATGCTAACCTGATGCACTGCTGAAAGAAAAATGTAATTTTTCGTAAT  
 AATTGCATTTTATGTAATTGTACAGTGGGTGAAAGGGCATTGGAGCTCATTAGAAATGA  
 GACATAGTACACCCCAATGGCCCTGTTTATTAATGTAGTGGATTAAAGTGTCTGTCAACA  
 AATACACCAAAACCAATTTTTATAGAAACAGTATTTAATGGTCACTCAATAGCTTTCAA  
 ATACATTTTTGTATTACAGCACTGCACAAGCTATTCTAATAGTGTCTCGCCTCATCATT  
 CCTGCAAAGCTTGCTTTGGGGAGTTGGATAATGTGAAAATTTTAAAGTACCTAGGGGAGAA  
 AGAGCCATGTAATATCTGTAATAAACTGTAGCATATGTAAGTTTTCTTGGCCTTTAT  
 CTTACAAAAATGGAGTATTTTAGTATGAATTTGCTGAATGTAAGACCGTGGACTGTTTTT  
 TATAATATGGCCTAATTTTAAAGGTCCAAAATAACTTGTTTTTTAAAGTTTGGCCTTGTGC  
 TAAAGTGCCAGTGTATGTATGTTATACTTGATTTGGTGTAAACTATATTTCAAAGTAA  
 CCTAGTGAATAAGTTTTATAACTAAAAGGTTTAAAGTGTCTAAAACATTTTTTAAAGAG  
 ATGTGAAATGCAGTATGGGACTATCTTTTTTCTCCTCTAAGCCCAAAGATTAAGTAACTAGA  
 GTCCCTCCAACCTTATAGATTGTTGGCTTTCACAACTTATAACCTAGGATACAGGTAGT  
 TTCGAGTATGGTGCCAGTGTATGTTTTGTTTTGTTTGGTCAAGGGGTAGGTGCAACCCAA  
 TGGACCACTTATGCAAAAGATGTAACCTTGCATAATACATTGATAACATGTTTTGCCA  
 ACTTTAAATGCTTAAACATAAGCGAAACCAAGTACCAAGTATGTGGGTGAGCTTAAAAAT  
 TTGATTGTTAATGCCCTATTTCTAATTTGGCACCTCTTGATGCCTAAGCAGGTAAGCAG  
 ATGCCTAAGCTGATTTTCTCAAATAAATCAAGATGAAGTACTGCCCAAGTTAAATATTG  
 ATAGCCTAAAGACAAGTTTATGTAGTACTTAATGTACATGATATGAATGTGAAGCATAAA  
 ATTAATAAAAATTTTTCCCATTAACAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_017761

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017761.2</a> , <a href="#">NP_060231.1</a>
<b>RefSeq Size:</b>	2382 bp
<b>RefSeq ORF:</b>	420 bp
<b>Locus ID:</b>	55629
<b>UniProt ID:</b>	<a href="#">Q9NPJ4</a>
<b>Cytogenetics:</b>	1p36.11
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	Involved in nonsense-mediated mRNA decay (NMD) by acting as a bridge between the mRNA decapping complex and the NMD machinery (PubMed:19150429). May act by targeting the NMD machinery to the P-body and recruiting the decapping machinery to aberrant mRNAs (PubMed:19150429). Required for UPF1/RENT1 localization to the P-body (PubMed:19150429). Plays a role in glucocorticoid receptor-mediated mRNA degradation by interacting with the glucocorticoid receptor NR3C1 in a ligand-dependent manner when it is bound to the 5' UTR of target mRNAs and recruiting the RNA helicase UPF1 and the mRNA-decapping enzyme DCP1A, leading to RNA decay (PubMed:25775514). Also acts as a nuclear receptor coactivator (PubMed:11574675). May play a role in controlling the energy balance between energy storage and energy expenditure (By similarity).[UniProtKB/Swiss-Prot Function]