

## Product datasheet for **SC321477**

### RPE (NM\_199229) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPE (NM_199229) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPE
Synonyms:	RPE2-1
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\_199229.1  
 GCGGTATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATT  
 TAGGGGCCGAGTGCCTCCGGATGCTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAA  
 TGGACGGGCATTTTGTCCCAACATCACCTTTGGTCACCTGTGGTAGAAAGCCTTCGAA  
 AGCAGCTAGGCCAGGACCTTTCTTTGACATGCACATGATGGTGTCCAAGCCAGAACAGT  
 GGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTCATCTCGAGGCTACTG  
 AGAACCCAGGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAGTTGGCCTTGCCA  
 TCAAACAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCT  
 TGGTTATGACAGTGGAACCGGGTGGAGGGCAGAAATTCATGGAAGATATGATGCCAA  
 AGGTTCACTGGTTGAGGACCCAGTCCCATCTTTGGATATAGAGGTGATGGTGGAGTAG  
 GTCCTGACACTGTCCATAAATGTGCAGAGGCAGGAGCTAACATGATTGTGTCTGGCAGTG  
 CTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAG  
 AAGCTGCTCAGAAACGTTCTCTTGATCGGTGAAACCATAAGGAGCCAGTGTTCCTGTTT  
 ATGAAATCTCCCTTTACTGGAAAACAGGAATATTGACTACCAAAACACAATGCAATTGA  
 AGCCGACTGCTTTTTGAGCAGTTATTCCAGTGATTAAGTATTGTCAGAAAT  
 ATTCTAAGAGGTGAGAAATGGTGTGTATAACTACATTTTAGTGATGCAATTTATTGAT  
 TAGTGAGTAAGATACTGTTTTATTGAGAGATTTGATTTTATAAAGTAAAAATACGGCT  
 GCATTAGGGTTACAAACAGAAAAGTGTCTTAATGTCTAAGGAGGGCATATTAGCTACACT  
 ACAAAAACAAATTTGTCTGTACTTCTGAAAAGAATTTGTTGTTTCTCAGCTGTTTTCC  
 AAAAGCAAAGGAGTCTTTATGGTTTTTTCTATTTTATGTTATTGTGATTTGTTTATAA  
 GTTTGGTGGGGTGCATACCATTTCTGGTCTTAAATCTATCACTTTTACCTTACA  
 CTTGATGTGTGAAACTATAAAAACAATGTGTGAAACCCAGGGTCTAAAATACAAGCA  
 TAGATTTTACAGGGTGTGTTGTCAAAGCAGTTATTGATGATTTCCCTCCCACTTCT  
 TAAGAACGTTAAATAATGCTGTTGTTAGCTCTGAGTAGAAAGAAAAAGTAAAAACCTC  
 TTTTTGGAGGTAATATTGGGTTGAATTCTGACTGCCCTTTCTAGCTGGACCTTTAACAA  
 ATCACCCAATCTTTTTGTGTTTCTCTAAAGTCATTTATACATTAATGTAATTATAGCA  
 ACTGTGGGGTCTGTTGAGAATTAAGAGCTAACACTATATATGTAAGTTTCCAGTACTA  
 GTCCCAGAAATTTAGAATATGCTCAACACAAAGTAAACAGCATTATATAAGTTTATATTT  
 TGTGAGTTATAAAGTACTTTGATATATTCTCATTAAATCTGTAATCACCTCTATAAGTA  
 AGTGGTAATAATAAGCAGATATTTTTGTCCCATTTAAAAAATGAAGAAATTAATGCTT  
 AATAGGGTGGTACCCTGGAAGGATCTGGGAAGTGGTAGAATTTCTGGTCTGTACTTTTA  
 CAATGGAGCCCTTGGGAGGTGGTTAGGTAAAAGAAGCTTTTTACTTAACGTTGTCTTA  
 TTTCCAGTCTAATTTTACGCTGTAGCAGAACAGATGGCTGAGAAAATCTGGAACATG  
 GATCTTGACCCCAAGGATATATTATTTTATTCCAAGAAAGATCAGGTAGGCGAAAAGATG  
 ACAGGATACAGAGTCAATCCATAAACTAAATATTTATAACTGTTCTGAATTATACAGAGT  
 CTAATAATATGTGTCAGTACTTCTCATTCTGTAATACTCTTGCTGTGTTATAAATATGG  
 CAAGAAATAAACATGACCAATATCAATAGACTTCTTGAGGCTACTATAAGTTTTGAGAAA  
 TAAGGTTCAAAAAATAAGAATGCTAACACTTAAGCACAGACTAGAGCTTGCTTGGGTTTC  
 TTCTGCAATACAAGTAAAAATTTGTTAATGTTTGTGTTTTTATTGAGCTTGGGAAAGCTT  
 TGTGCCATGAATACGTGCGATTTAATAACAAGCAACACCGGCATATAGAATAACTTTA  
 ATTAATAAACTTACATAGAGATTATAATATCAGACGTGACAAAGATTTGAGTTTATTTG  
 CCTGGACAACCTGGGTTTGTCTGGCTTTTGTGTTTTCTTTTCTTTAAAAATAAATGTACAG  
 TAAAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_199229

**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>	<u><a href="#">NM_199229.1</a></u> , <u><a href="#">NP_954699.1</a></u>
<b>RefSeq Size:</b>	2492 bp
<b>RefSeq ORF:</b>	687 bp
<b>Locus ID:</b>	6120
<b>UniProt ID:</b>	<u><a href="#">Q96AT9</a></u>
<b>Cytogenetics:</b>	2q34
<b>Protein Pathways:</b>	Metabolic pathways, Pentose and glucuronate interconversions, Pentose phosphate pathway
<b>Gene Summary:</b>	Catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes isoform 1.