

## Product datasheet for **SC334484**

### RPE (NM\_001278289) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPE (NM_001278289) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPE
Synonyms:	RPE2-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001278289, the custom clone sequence may differ by one or more nucleotides

```
ATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAGGGCCGAGTGCC
TCCGGATGCTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTCCCAACAT
CACCTTTGGTCACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCAC
ATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTC
ATCTCGAGGCTACTGAGAACCCAGGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAGTTGGCCT
TGCCATCAAACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGTTT
ATGACAGTGGAACCGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGTTCACTGGTTGA
GGACCCAGTTCCCATCTTTGGATATAGAGTTCGATGGTGGAGTAGTCTTGACACTGTCCATAAATGTGC
AGAGCCCTTTGGAAGATCATTAAGTTTCACGGCCTTGAAGTGAGAAATTTTCCAAAATACGGAAT
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001278289
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\\_001278289.1](#), [NP\\_001265218.1](#)

**RefSeq Size:** 3334 bp

**RefSeq ORF:** 630 bp

**Locus ID:** 6120

**UniProt ID:** [Q96AT9](#)

**Cytogenetics:** 2q34

**Protein Pathways:** Metabolic pathways, Pentose and glucuronate interconversions, Pentose phosphate pathway

**Gene Summary:** Catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (8) contains an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (5) is shorter and has a distinct C-terminus, compared to isoform 1.