

Product datasheet for SC334062

RPE (NM_001278288) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPE (NM_001278288) 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:	>SC334062 representing NM_001278288. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGCACATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTAC
 ACCTTTCATCTCGAGGCTACTGAGAACCAGGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAG
 GTTGGCCTTGCCATCAACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATG
 GCCTTGGTTATGACAGTGAACCGGGTTTGGAGGCGAGAAATTCATGGAAGATATGATGCCAAAGGTT
 CACTGGTTGAGGACCCAGTTCCTATCTTTGGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTC
 CATAAATGTGCAGAGGCAGGAGCTAACATGATTGTGTCTGGCAGTGCTATTATGAGGAGTGAAGACCCC
 AGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAGAAGCTGCTCAGAAACGTTCTCTTGATCGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001278288
Insert Size:	483 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).


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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:	<u>NM_001278288.1</u>
RefSeq Size:	3185 bp
RefSeq ORF:	483 bp
Locus ID:	6120
UniProt ID:	<u>Q96AT9</u>
Cytogenetics:	2q34
Protein Pathways:	Metabolic pathways, Pentose and glucuronate interconversions, Pentose phosphate pathway
MW:	17.6 kDa
Gene Summary:	<p>Catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (7) lacks an exon, compared to variant 1. It initiates translation at a downstream in-frame start codon. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1. Variants 6, 7, 13, and 14 all encode the same isoform (4).</p>