

## Product datasheet for **RC236505**

### RPE (NM\_001278285) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RPE (NM\_001278285) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RPE  
**Synonyms:** RPE2-1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236505 representing NM\_001278285  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAGGGGCCGAGTGCC**  
**TCCGGATGCTAGACTCTGGGCGGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTCCCAACAT**  
**CACCTTTGGTCACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTCTTTGACATGCAC**  
**ATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTC**  
**ATCTCGAGGCTACTGAGAACCCAGGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAGTTGGCCT**  
**TGCCATCAAACAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGGTT**  
**ATGACAGTGAACCGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGCAGGAGCTAACA**  
**TGATTGTGTCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAAGAAATGT**  
**TTGCTCAGAAGCTGCTCAGAAACGTTCTCTTGATCGG**

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC236505 representing NM\_001278285  
**Red=Cloning site Green=Tags(s)**

MASGCKIGPSILNSDLANLGAELRMLDSGADYLHLDMVDGHFVPNITFGHPVVESLRKQLGQDPFFDMH  
MMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALV  
MTVEPGFGGQKFMEDMMPKAGANMIVSGSAIMRSEDPRSVINLLRNVCSAAQKRSLDR

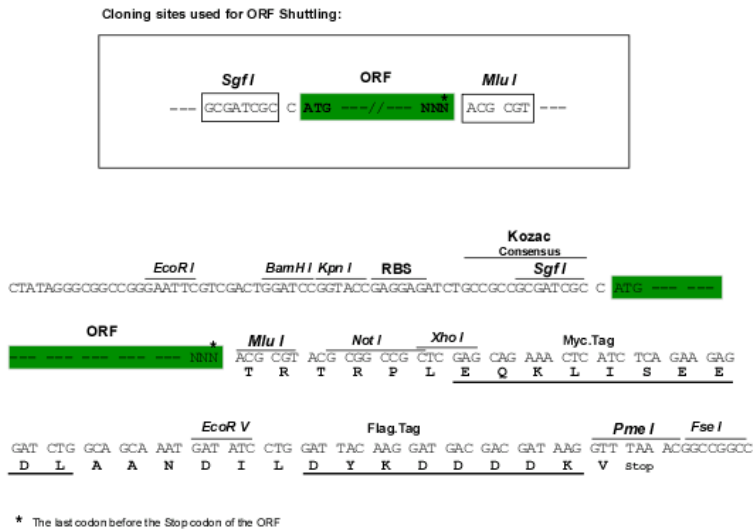
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** SgfI-MluI

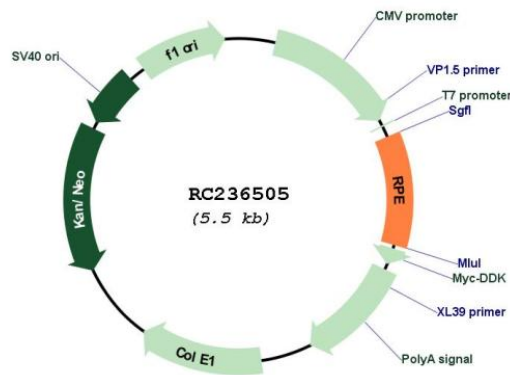


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001278285

ORF Size: 597 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001278285.1](#), [NP\\_001265214.1](#)

**RefSeq Size:** 3178 bp

**RefSeq ORF:** 600 bp

**Locus ID:** 6120

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

**Cytogenetics:** 2q34

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

**MW:** 22.2 kDa

**Gene Summary:** Catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. [UniProtKB/Swiss-Prot Function]