

Product datasheet for **RC236167**

RPE (NM_001278286) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPE (NM_001278286) 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: >RC236167 representing NM_001278286
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCACATGATGGTGTCCAAGCCAGAACAGTGGGTAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACA
CCTTTCATCTCGAGGCTACTGAGAACCCAGGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAGGT
TGGCCTTGCCATCAAACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCC
TTGGTTATGACAGTGGAACCGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGTTCACT
GGTTGAGGACCCAGTTCCCATCTTTGGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTCCATAA
ATGTGCAGAGGCAGGAGCTAACATGATTGTGTCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCT
GTGATCAATCTATTAAGAAATGTTTGCTCAGAAGCTGCTCAGAAACGTTCTCTTGATCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236167 representing NM_001278286
Red=Cloning site Green=Tags(s)

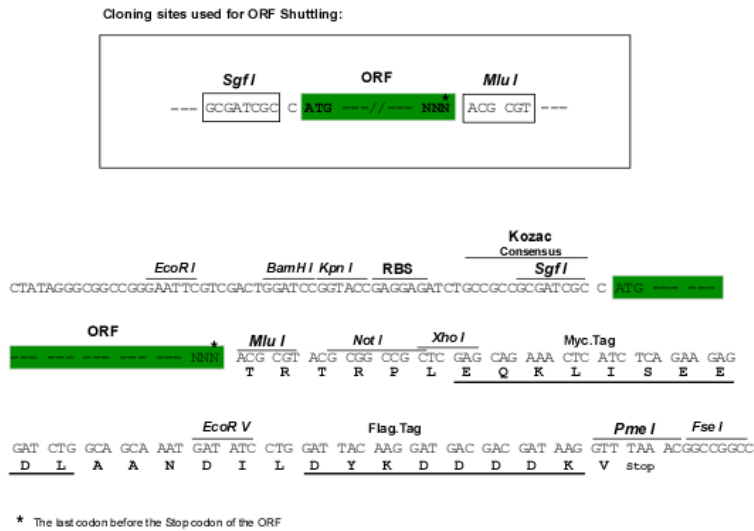
MHMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMA
LVMTVEPGFGGQKFMEDMMPKVHWRRTQFPSLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIMRSEDP
VINLLRNVCSEAAQKRSLDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

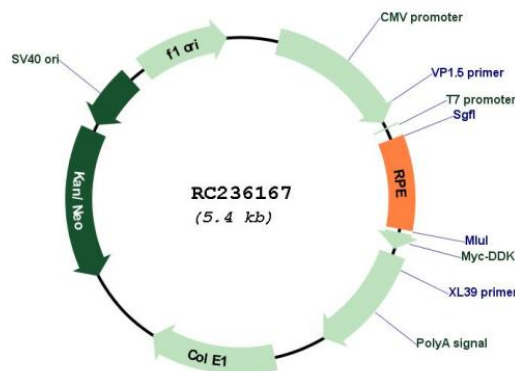
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001278286

ORF Size: 480 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:	<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_001278286.1, NP_001265215.1</u>
RefSeq Size:	3194 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:	18 kDa
Gene Summary:	Catalyzes the reversible epimerization of D-ribulose 5-phosphate to D-xylulose 5-phosphate. [UniProtKB/Swiss-Prot Function]