

Product datasheet for **RG220238**

RPE (NM_006916) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPE (NM_006916) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPE
Synonyms: RPE2-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220238 representing NM_006916
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACA
 CCTTTCATCTCGAGGCTACTGAGAACCCAGGGCTTTGATTAAGACATTCGGGAGAATGGGATGAAGTC
 TTGCTCTGTACCCAGGCTGAAGTGCAGTGGCACAGTCAAGGCCATTGCAGGTTGGCCTTGCCATCAA
 CCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGTTATGACAGTGG
 AACCGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGTTCACTGGTTGAGGACCCAGTT
 CCCATCTTTGGATATAGAGGTCGATGGTGGAGTAGGTCCTGACACTGTCCATAAATGTGCAGAGGCAGGA
 GCTAACATGATTGTCTGGCAGTGTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAA
 GAAATGTTTGCTCAGAAGCTGCTCAGAAACGTTCTCTTGATCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220238 representing NM_006916
 Red=Cloning site Green=Tags(s)

MHMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGMKSCSVTQAEVQWHSQGPLQVGLAIK
 PGTSTVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHVLRTQFPSLDIEVDGGVGPDTVHKCAEAG
 ANMIVSGSAIMRSEDPRSVINLLRNVCSAAQKRSLDR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_006916

ORF Size: 534 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_006916.2](#)

RefSeq Size: 2130 bp

RefSeq ORF: 537 bp

Locus ID: 6120

UniProt ID: [Q96AT9](#)

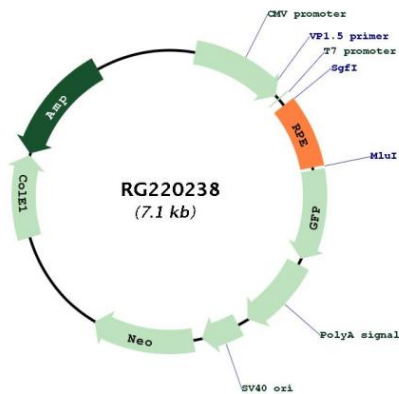
Cytogenetics: 2q34

Domains: Ribul_P_3_epim

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]

Product images:



Circular map for RG220238