

Product datasheet for **RG227890**

RPEL1 (NM_001143909) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPEL1 (NM_001143909) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPEL1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227890 representing NM_001143909
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAGGGGCCAAGTGCC
 TCCAGATGCTAGACTCTGGGGCCGATTATCTGCATCTGGATGTAATGGATGGGCATTTTGTTCACACAT
 CACCTTTGGTCACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCAC
 ATGATGGTGTCCAAGCCAGAACAGTGGGTAAGCCAATGGCTGTAGCAGAAGCCAATCAGTACACCTTTC
 ATCTCGAGGCTACTGAGAACCAGGGACTTTGATTAAGACATTCGGGAGAATGGGATGAAGGTTGGCCT
 TGCCATCAAACCAGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAAATAGATATGGCCTTGTT
 ATGACAGTGGAACCGGGTTTGGAGAGCAGAAATTCATGGAAGATATGATGCCAAAGTTCACTGGTTGA
 GGACCCAGTTCCCATCTTTGGATATAGAGGGCGATGGTGGAGTAGGTTCTGACACTGTCCATAAGTGTGC
 AGAGGCAGGAGCTAACATGACTGTATCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCTGTGATC
 AACCTATTAAGAAATATTTGCTCAGAAGCTGCTCAGAAACGTTCTCTTGATCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227890 representing NM_001143909
 Red=Cloning site Green=Tags(s)

MASGCKIGPSILNSDLANLGAQLQMLDSGADYLHLDVMDGHFVFNITFGHPVVEVSLRKQLGQDPFFDMH
 MMVSKPEQWVKPMAVAEANQYTFHLEATENPGTLIKDIRENGMKVGLAIKPGTSVEYLAPWANQIDMALV
 MTVEPGFGEQKFMEDMMPKVHWRQTQFPLDIEGDGGVGSQDVTVHKCAEAGANMTVSGSAIMRSEDPRSVI
 NLLRNICSEAAQKRSLLDR

TRTRPLE - GFP Tag - V

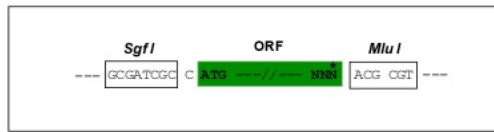


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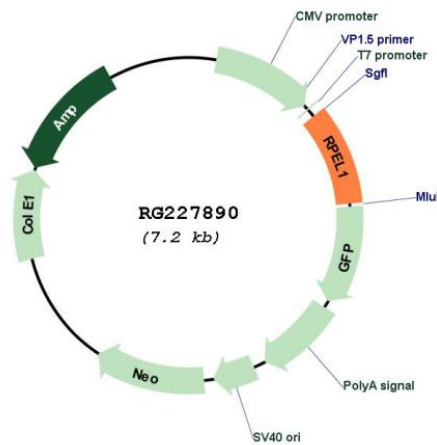
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001143909

ORF Size: 684 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_001143909.1, NP_001137381.1</u>
RefSeq Size:	2130 bp
RefSeq ORF:	687 bp
Locus ID:	729020
UniProt ID:	<u>Q2QD12</u>
Cytogenetics:	10q24.33
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]