

Product datasheet for **RG202776**

RPLP2 (NM_001004) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPLP2 (NM_001004) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPLP2
Synonyms: D11S2243E; LP2; P2; RPP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202776 representing NM_001004
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTACGTCGCCTCCTACCTGCTGGCTGCCCTAGGGGGCAACTCCTCCCCAGCGCCAAGGACATCA
AGAAGATCTTGGACAGCGTGGGTATCGAGGCGGACGACGACCGGCTCAACAAGTTATCAGTGAGCTGAA
TGGAAAAACATTGAAGACGTCATTGCCAGGGTATTGGCAAGCTTGCCAGTGTACCTGCTGGTGGGGCT
GTAGCCGCTCTGCTGCCAGGCTCTGCAGCCCTGCTGCTGGTTCTGCCCTGCTGCAGCAGAGGAGA
AGAAAGATGAGAAGAAGGAGGAGTCTGAAGAGTCAGATGATGACATGGGATTTGGCCTTTTGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202776 representing NM_001004
Red=Cloning site Green=Tags(s)
MRYVASYLLAALGGNSSPSAKDIKKILDSVIEADDDRLNKVISELNGKNIEDVIAQIGIKLASVPAGGA
VAVSAAPGSAAPAAGSAPAAAEKKDEKKEESEESDDDMGFGLFD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	NM_001004.4
RefSeq Size:	511 bp
RefSeq ORF:	348 bp
Locus ID:	6181
UniProt ID:	P05387
Cytogenetics:	11p15.5
Domains:	60s_ribosomal
Protein Families:	Druggable Genome
Protein Pathways:	Ribosome
Gene Summary:	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal phosphoprotein that is a component of the 60S subunit. The protein, which is a functional equivalent of the E. coli L7/L12 ribosomal protein, belongs to the L12P family of ribosomal proteins. It plays an important role in the elongation step of protein synthesis. Unlike most ribosomal proteins, which are basic, the encoded protein is acidic. Its C-terminal end is nearly identical to the C-terminal ends of the ribosomal phosphoproteins P0 and P1. The P2 protein can interact with P0 and P1 to form a pentameric complex consisting of P1 and P2 dimers, and a P0 monomer. The protein is located in the cytoplasm. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq, Jul 2008]