

## Product datasheet for **RG209987**

### RPL10A (NM\_007104) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RPL10A (NM_007104) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPL10A
Synonyms:	Csa-19; CSA19; L10A; NEDD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209987 representing NM_007104 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGCAAAGTCTCTCGCGACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACGGGAACCAGCGCA  
AGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGATCCCCAGAAGGACAA  
GCGCTTCTCGGGCACCGTCAGGCTTAAGTCCACTCCCCGCCCTAAGTTCTCTGTGTGTCTCTGGGGAC  
CAGCAGCACTGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAACTCA  
ACAAGAATAAAAACTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGAT  
CAAGCAGATCCACGAATCCTCGGCCAGGTTTAAATAAGGCAGGAAAGTCCCTTCCCTGCTCACACAC  
AACGAAAACATGGTGGCCAAAGTGGATGAGGTGAAGTCCACAATCAAGTCCAAATGAAGAAGGTGTTAT  
GTCTGGCTGTAGCTGTTGGTCACGTGAAGATGACAGACGATGAGCTTGTGTATAACATTCACCTGGCTGT  
CAACTTCTGGTGTATTGCTCAAGAAAACTGGCAGAAATGTCCGGGCCTTATATATCAAGAGCACCATG  
GGCAAGCCCCAGCGCCTATAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209987 representing NM\_007104  
 Red=Cloning site Green=Tags(s)

MSSKVSRTL YEAVREVLHGNQRKRKRFLETVELQISLKNYDPQKDKRFSGTVRLKSTPRPKFSVCVLGD  
 QQHCDEAKAVDIPHMDIEALKLNKKNKLVKKLAKKYDAFLASESLIKQIPRILGPGLNKAGKFPSSLTH  
 NENMVAKYDEVKSTIKFQMKKVLCLAVAVGHVKMTDDELVYNIHLAVNFLVSLKKKNWQNVRALYIKSTM  
 GKPQRLY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007104

**ORF Size:** 651 bp

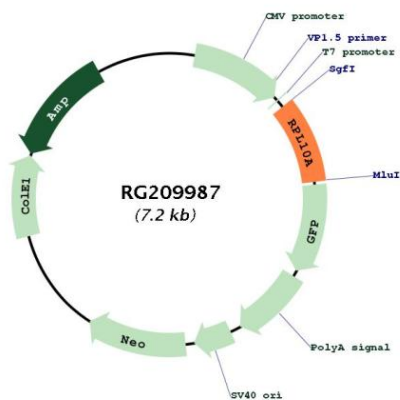
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007104.5</a>
<b>RefSeq Size:</b>	719 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	4736
<b>UniProt ID:</b>	<a href="#">P62906</a>
<b>Cytogenetics:</b>	6p21.31
<b>Domains:</b>	Ribosomal_L1
<b>Protein Pathways:</b>	Ribosome
<b>Gene Summary:</b>	<p>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 protein that is a component of the 60S subunit. The protein belongs to the L1P family of ribosomal proteins. It is located in the cytoplasm. The expression of this gene is downregulated in the thymus by cyclosporin-A (CsA), an immunosuppressive drug. Studies in mice have shown that the expression of the ribosomal protein L10a gene is downregulated in neural precursor cells during development. This gene previously was referred to as NEDD6 (neural precursor cell expressed, developmentally downregulated 6), but it has been renamed RPL10A (ribosomal protein 10a). 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]</p>

Product images:



Circular map for RG209987