

Product datasheet for **RG227502**

RPL28 (NM_001136134) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RPL28 (NM_001136134) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RPL28
Synonyms: L28
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227502 representing NM_001136134
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCGCATCTGCAATGGATGGTCGTGCGGAAGTCTCCAGTTTCCTGATCAAGAGGAATAAGCAGAC
CCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAATTCCTTCCGCTACAACGGACTGATTCACCGCAA
GACTGTGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTGGTGGTCATTAAGCGGAGATCCGGCCAG
CGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCTCGCGCCACGCTCAGCAGCATCA
GACACATGATCCGCAAGAACAAGTACCGCCCGACCTGCGCATGGTGGAGCTGGGGTTTGGGGATCAGGCT
TGGGGAGACTGGCCAGTCTGTGGGAAGGGCCTCCCCTACTGGTTGCAATATGGGCTGGAGAGGGATG
GATTCTTGCTTTGAGCCTACTCCCCACCCAGCATTGGCCTAGGGGGCGGCTTGTGGAGTGTATGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227502 representing NM_001136134
Red=Cloning site Green=Tags(s)
MSAHLQMMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTVGVPEAADGKGVVVVVKRRSGQ
RKPATSYVRTTINKNARATLSSIRHMIRKNKYRPDLRMVSWGLGIRLGETGQCCGEGPPTTGCNMGWRGM
DSCFQPTPHTQHWPRGRLVECMG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

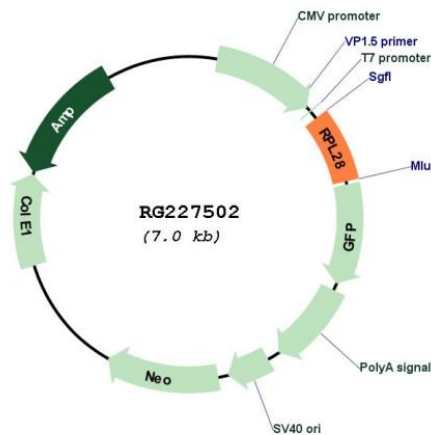


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001136134

ORF Size: 489 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_001136134.1, NP_001129606.1</u>
RefSeq Size:	4439 bp
RefSeq ORF:	492 bp
Locus ID:	6158
UniProt ID:	<u>P46779</u>
Cytogenetics:	19q13.42
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 protein that is a component of the 60S subunit. The protein belongs to the L28E family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Oct 2008]