

Product datasheet for **RG210653**

RPL8 (NM_000973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPL8 (NM_000973) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPL8
Synonyms:	L8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210653 representing NM_000973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCGTGTGATCCGTGGACAGAGGAAGGGCGCCGGTCTGTGTTCCGCGGCACGTGAAGCACCGTA
AAGGCGCTGCGCGCCTGCGCGCCGTGGATTCGCTGAGCGGCACGGCTACATCAAGGGCATCGTCAAGGA
CATCATCCACGACCCGGGCGCGCGCCCTCGCCAAGGTGGTCTCCGGGATCCGTATCGGTTAAAG
AAGCGGACGGAGCTGTTCAATGCCGCCGAGGGCATTACACGGGCCAGTTTGTGTATTGCGGCAAGAAGG
CCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATGCCTGAGGGTACAATCGTGTGCTGCCTGGA
GGAGAAGCCTGGAGACCGTGGCAAGCTGGCCCGGCATCAGGGAATATGCCACCGTTATCTCCACAAC
CCTGAGACCAAGAAGACCCGTGTGAAGTGCCTCCGGCTCCAAGAAGTTATCTCCTCAGCCAACAGAG
CTGTGGTTGGTGTGGTGGCTGGAGGTGGCCGAATTGACAAACCATCTTGAAGGCTGGCCGGCGTACCA
CAAATAAAGGCAAGAGGAAGTGTGGCCACGAGTACGGGGTGTGGCCATGAATCCTGTGGAGCATCCT
TTTGGAGGTGGCAACCACCAGCACATCGGAAGCCCTCCACCATCCGAGAGATGCCCTGCTGGCCGCA
AAGTGGGTCTCATTGCTGCCCGCGGACTGGACGTCTCCGGGAACCAAGACTGTGCAGGAGAAAGAGAA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210653 representing NM_000973
 Red=Cloning site Green=Tags(s)

MGRVIRGQRKKGAGSVFRAHVKHRKGAARLRAVDF AERHGYIKGIVKDI IHDPGRGAPLAKVVFRDPYRFK
 KRTELFIAAEGIHGTGQFVYCGKKAQLNIGNVLPVGTMP EGTIVCCLEEKPGDRGKLARASGNYATVISHN
 PETKKTRVKLPSGSKKVISSANRAVVG VAGGGRIDKPI LKAGRAYHKYKAKRNCWPRVRGVAMNPVEHP
 FGGGNHQHIGKPSTIRR DAPAGRKVGLIAARRTGRLRGTKTVQEKEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000973

ORF Size: 771 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_000973.5](#)

RefSeq Size: 903 bp

RefSeq ORF: 774 bp

Locus ID: 6132

UniProt ID: [P62917](#)

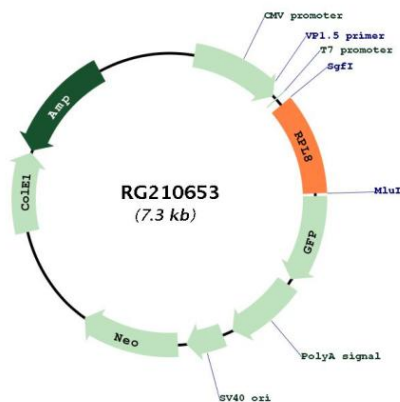
Cytogenetics: 8q24.3

Domains: Ribosomal_L2

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 L2P family of ribosomal proteins. It is located in the cytoplasm. In rat, the protein associates with the 5.8S rRNA, very likely participates in the binding of aminoacyl-tRNA, and is a constituent of the elongation factor 2-binding site at the ribosomal subunit interface. Alternatively spliced transcript variants encoding the same protein exist. 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]

Product images:



Circular map for RG210653