

Product datasheet for **RC201553**

RPS4Y1 (NM_001008) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS4Y1 (NM_001008) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RPS4Y1
Synonyms:	RPS4Y; S4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201553 representing NM_001008 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGGCCCAAGAAGCACTTAAAGCGTGTTCAGCGCCGAAGCATTGGATGCTTGACAACTAA
CGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCACAAGCTGAGGGAATGTCTTCTCTGATCGTCTT
CCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAGAAGATATGTATGCAACGTTTCATC
AAAATTGATGGCAAGTTCGAGTGGATGTCACATACCCGCTGGATTCATGGATGTCATCAGCATCGAGA
AGACAGGTGAACATTTCCGCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTCCACGCATCACAGTGGA
AGAGGCAAAGTACAAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGT
ACTCATGATGCTCGAACCATCCGCTACCCAGATCCTGTCATCAAGGTGAACGATACTGTGCAGATTGATT
TAGGGACTGGCAAGATAATCAACTTTATCAAATTTGATACAGGCAATTTGTGTATGGTATTGGTGGAGC
CAACCTCGGTCGTGTTGGTGTGATCACCAACAGGGAAAGACATCCTGGTCTTTTGTATGGTGCATGTG
AAGGATGCCAATGGCAACAGCTTTGCCACGAGGCTTTCCAACATTTTGTATTGGCAATGGCAATAAC
CTTGGATTTCCCTGCCAGGGGAAAGGGCATTGACTTACTGTTGCTGAAGAGAGAGATAAGAGGCTGCC
CACCAACAGAGCAGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201553 representing NM_001008
 Red=Cloning site Green=Tags(s)

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIVFLRNRLKYALTGDEVKKICMQRFI
 KIDGKVRVDVTPAGFMDVISIEKTGEHFRLVYDTKGRFAVHRIVVEAKYKLCVKRKITVGVKGIPLV
 THDARTIRYPDPVIKVNQIDLTGKIINFIKFDTGNLCMVIGGANLGRVGVITNRRERHPGSDVHVH
 KDANGNSFATRLSNIFVIGNGNKPWISLPRGKGI RLTVAEERDKRLATKQSSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1484_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001008

ORF Size: 789 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_001008.4](#)

RefSeq Size: 910 bp

RefSeq ORF: 792 bp

Locus ID: 6192

UniProt ID: [P22090](#)

Cytogenetics: Yp11.2

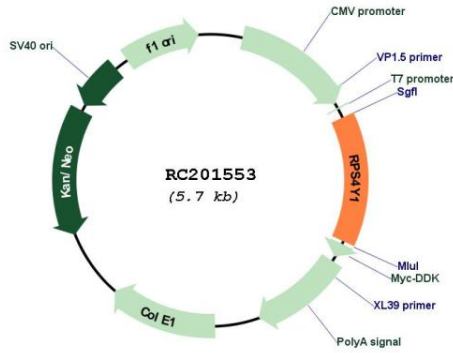
Domains: Ribosomal_S4e, S4, KOW

Protein Pathways: Ribosome

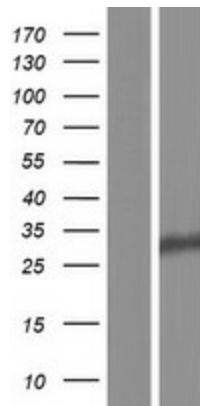
MW: 29.3 kDa

Gene Summary: Cytoplasmic ribosomes, 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 ribosomal protein S4, a component of the 40S subunit. Ribosomal protein S4 is the only ribosomal protein known to be encoded by more than one gene, namely this gene and ribosomal protein S4, X-linked (RPS4X). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent. Ribosomal protein S4 belongs to the S4E family of ribosomal proteins. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial. 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 RC201553



Western blot validation of overexpression lysate (Cat# [LY423389]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201553 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).