

Product datasheet for SC111004

RPS2 (NM_002952) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RPS2 (NM_002952) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | RPS2 |
| Synonyms: | LLREP3; S2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC111004 sequence for NM_002952 edited (data generated by NextGen Sequencing) |

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ATGGCGGATGACGCCGGTGCAGCGGGGGGCCCGGGGCCCTGGTGGCCCTGGGATGGG
AACCGCGGTGGCTTCCGCGGAGGTTTCGCGAGTGGCATCCGGGGCCGGGGTCGCGGCCGT
GGACGGGGCCGGGGCCGAGGCCGCGGAGCTCGCGAGGCAAGGCCGAGGATAAAGGAGTGG
ATGCCCGTACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAG
ATCTATCTCTTCCCTGCCYATTAAGGAATCAGAGATCATTGATTTCTTCTGGGGCC
TCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCGGCCAG
CGCACCAGGTTCAAGGCATTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGT
GTTAAGTGCTCCAAGGAGGTGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTC
TCCATCGTCCCCGTGCGCAGAGGCTACTGGGGAAACAAGATCGGCAAGCCCCACACTGTC
CCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTACGCCTCATCCCTGCACCCAGG
GGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGAT
GACTGCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACC
TTTGATGCCATTTCTAAGACCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTA
TTCACCAAGTCTCCCTATCAGGAGTTCACTGACCACCTCGTCAAGACCCACACCAGAGTC
TCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAG

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Clone variation with respect to NM_002952.3
261 t=>y



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002952 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAAAACACCAAATGGC
 GGATGACGCCGGTGCAGCGGGGGGGCCGGGGCCCTGGTGGCCCTGGGATGGGGAACCG
 CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCCGGCCCTGGACG
 GGGCCGGGGCCGAGGCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCC
 CGTCACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAGATCTA
 TCTCTTCCCTGCCATTAAGGAATCAGAGATCATTGATTTCTTCTGGGGCCCTCTCT
 CAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCAC
 CAGGTTCAAGGCATTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAA
 GTGCTCCAAGGAGGTGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCAT
 CGTCCCGTGCAGAGGCTACTGGGGAAACAAGATCGGCAAGCCCCACACTGTCCCTTG
 CAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTACGCCTCATCCCTGCACCCAGGGGCAC
 TGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGTGGTATCGATGACTG
 CTACACCTCAGCCGGGGCTGCACTGCCACCCTGNGCAACTTCGCAAGGCCACCTTTGA
 TGCCATTTCTAAGACCTACAGCTACCTGACCCCGACCTCTGAAAGAGACTGTATTAC
 CAAGTCTCTATNNCAGAGTCACTGACCACCTCGTCAAGACCACACCANAGTCTNCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002952 unedited
 GCGGGCCGAATCTAGCATCGAGTTTTTTTTTTTTTTTTTTTTCACGCTTAATTCACTTTAT
 TTTTCTTGATAAAAAACCTATGTTGTAGCCACAGCTGGAGCCTGAGTCCGCTGCACGGA
 GACTCTGGTGTGGGTCTTGACGAGGTGGTCACTGAACTCCTGATAGGGAGACTTGGTGAA
 TACAGTCTCCTTCCAGAGGTCGGGGTCAAGTAGCTGTAGGTCTTAAAAATGGCATCAA
 GGTGGCCTTGGCAAGTTGCCAGGGTGGCAGTGCAGCCCGGGTGGAGGTGTAGCAGTC
 ATCGATACCAGCCATCATGAGCAGCTTCTTAGGCACAGGTGCGGAGACGATGCCAGTGCC
 CCTGGGTGCAGGGATGAGGCGTACCAGCACAGAGCCGACGCGCCCTGTACCTTGCAAGG
 GACAGTGTGGGGCTTGGCGATCTTGTCCCCAGTAGCCTCTGCGCACGGGGACGATGGA
 GAGCTTGGCCAGGATGATGGCCCCACGGATGGCGGTGGCCACCTCCTTGGAGCACTTAAC
 ACCCAGACCGACGTGGCCATTGTAGTCCCCGATAGCAACACATGCCTTGAACCTGGTGCG
 CTGGCCGGCACGGGTTTGCTTCTGCACTGGCATAATTTTTAAACCCTCTTCTTGAAAAA
 GGCCCCAGGAAGAAATCCATGATCCTTGATTGCTTTATGGGCATGGAAGAGAAATAAT
 CTTCTCCAGGACCTTGATCTTTATGGCCCTTGACCACCCGCTCTACTTTGTTGACGGCC
 ATTC AATTCTTTATCCTTGGCCTTCTCCCGTAACCTCGTGGGCTCGGGCCCCGCCCCC
 CTCCCCGTCGCGAACACGCGCCCCGTANTGTTATTCTCAGACCTCTCCCGCAACCCT
 CTCGTTTTCTTTACCTTATCCTCTCTCGGCCCCCGCCCTCGCCGCTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_002952

Insert Size:

1020 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002952.3](#), [NP_002943.2](#)

RefSeq Size: 962 bp

RefSeq ORF: 882 bp

Locus ID: 6187

UniProt ID: [P15880](#)

Cytogenetics: 16p13.3

Domains: Ribosomal_S5, Ribosomal_S5_C

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 40S subunit. The protein belongs to the S5P family of ribosomal proteins. It is located in the cytoplasm. This gene shares sequence similarity with mouse LLRep3. It is co-transcribed with the small nucleolar RNA gene U64, which is located in its third intron. 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]