

Product datasheet for **SC112508**

RPS18 (NM_022551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPS18 (NM_022551) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPS18
Synonyms:	D6S218E; HKE3; KE-3; KE3; S18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112508 sequence for NM_022551 edited (data generated by NextGen Sequencing)

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ATGTCTCTAGTGATCCCTGAAAAGTTCCAGCATATTTTGGGAGTACTCAACACCAACATC
GATGGGCGGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTGGGCCGAAGATAT
GCTCATGTGGTGTGAGGAAAGCAGACATTGACCTCACCAAGAGGGCGGGAGAAGTCACT
GAGGATGAGGTGGAACGTGTGATCACCATTATGCAGAATCCACGCCAGTACAAGATCCCA
GACTGGTCTTGAACAGACAGAAGGATGTAAAGGATGGAAAATACAGCCAGGTCTTAGCC
AATGGTCTGGACAACAAGCTCCGTGAAGACCTGGAGCGACTGAAGAAGATTGGGGCCAT
AGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACACCAAGACCACTGGC
CGCCGTGGCCGCACCGTGGTGTGTCCAAGAAGAAATAA
```

Clone variation with respect to NM_022551.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022551 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCGCCGCTTGTGCTG
 CAGCCATGTCTCTAGNNTGATCCCTGAAAAGTTCCAGCATATTTTGCAGTACTCAACAC
 CAACATCGATGGGCGGCCGAAAAAGCCTTTGCCATCACTGCCATTAAGGGTGTGGGCCG
 AAGATATGCTCATGTGGTGTGAGGAAAGCAGACATTGACCTACCAAGAGGGCGGGAGA
 ACTCATGAGGATGAGGTGGAACGTGTGATCACCATTATGCAGAATCCAGCCAGTACAA
 GATCCCAGACTGGTTCTTGAACAGACAGAAGGATGTAAAGGATGGAAAAATACAGCCAGGT
 CCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGACCTGGAGCGACTGAAGAAGATTCC
 GGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACACCAAGAC
 CACTGGCCCGCTGGCCGACCGTGGGTGTGTCCAAGAAGAAAATAAGTCTGTAGGCCCTTG
 TCTGTTAATAAATAGTTTATATACCTAAAAAATAAATAAATAAATAAATAAATAAATAA
 GGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCC
 AGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAAAAAA
 TTAAGTTGCATCATTTTGTCTGACTAGGTGTCTTCTATATATATGGTGAGNNGGGNGG
 GGGGNTNNNNNANACAGAGGGCCACANNTNGGAAAACACACCTTGAGGCCTCCGGGGG
 TTTTTTGGGGACCAACCTGGGAAGGCAGGGGCACATTCTGGGCTACTGGCATCTCGCCTT
 CTGGGGTCAGCGATCTCTGCTACTCCCCAGAGGGGGGGAATACCAGTGCCTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022551 unedited
 NTTAGCTATGNACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAGGTA
 TATAAACTATTTATTAACAGACAAGGCCTACAGACTTATTTCTTCTGGACACCCCACG
 GTGCGGCCACGGCGCCAGTGGTCTTGGTGTGCTGGCCTCGGACACGAAGGCCCCAGAAG
 TGACGCAGCCCTCTATGGGCCCGAATCTTCTTCAGTCGCTCCAGGTCTTACGGAGCTTG
 TTGTCCAGACCATTGGCTAGGACCTGGCTGATTTTCCATCCTTTACATCCTTCTGTCTG
 TTCAAGAACCAGTCTGGGATCTTGTACTGGCGTGGATTCTGCATAATGGTGATCACACGT
 TCCACCTCATCCTCAGTGAGTTCTCCCGCCCTCTTGGTGAGGTCAATGTCTGCTTTCTC
 AACACCACATGAGCATATCTTCGGCCACACCCCTAATGGCAGTGATGGCAAAGGCTATT
 TTCCGCGCCCATCGATGTTGGTGTGAGTACTCGAAAAATATGCTGGAACCTTTTCAGGG
 ATCACTAGAGACATGGCTGCAGCACAAGCGGCGGCCCTCGTGCCGAATTCGCGGCCGCC
 TATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGTTATATAGAC
 CTCCCACCGTACACGCCTACCGCCATTTGCGTCAACGNGCGGNGTTATTACGACATTT
 TGGAAAGTCCCGTTGATTTTGGTGCCAAAACAACTCCCATTGACGTCAATGGGGGTGGA
 GACTTGAAATCCCGTGAAGTCANACCGCTATCCACGCCATTGGTGTACTGCCAAAACGC
 ATACCATGTAATAGCGATGACTATACGTANATGTACTGGCCAGTAGAAAGCCCGTAGGTC
 ATGTACTGGGCATATGCCAGCGCCATTTACCGCATTGACGCATAGGGGGCGACTNG

Restriction Sites:

NotI-NotI

ACCN:

NM_022551

Insert Size:

580 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_022551.2](#), [NP_072045.1](#)

RefSeq Size: 549 bp

RefSeq ORF: 459 bp

Locus ID: 6222

UniProt ID: [P62269](#)

Cytogenetics: 6p21.32

Domains: Ribosomal_S13

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 S13P family of ribosomal proteins. It is located in the cytoplasm. The gene product of the E. coli ortholog (ribosomal protein S13) is involved in the binding of fMet-tRNA, and thus, in the initiation of translation. This gene is an ortholog of mouse Ke3. 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]