

Product datasheet for MC206900

Rps23 (BC002145) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rps23 (BC002145) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rps23
Synonyms:	2410044J15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206900 representing BC002145. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAAGTGCTGGTCTCCGAAGCTCCGAGTCACCGACGGGACCAGAAGTGGCAT
GACAAACAGTACAAGAAAGCCCACTTGGGCACAGCCCTGAAGGCCAATCCGTTTGGGGTGCCTCTCAT
GCAAAGGGAATTGTGCTGGAAAAAGTAGGGTTGAGGCCAAACAGCCAAATCTGCCATCAGGAAGTGC
GTCAGGGTGCAGCTCATTAAGAACGGGAAGAAGATCACAGCGTTCGTGCCAATGATGGCTGCCTGAAC
TTCATTGAGGAAATGATGAAGTTCTGGTTGCTGGATTTGGTCGAAAAGGTCATGCTGTAGGTGATATT
CCTGGAGTCCGCTTAAAGGTGGTTAAAGTAGCCAATGTTTCTCTGTTGGCTCTATACAAAGGCAAGAAA
GAAAGGCCAAGATCAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	BC002145
Insert Size:	432 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).



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC002145](#)

RefSeq Size: 513 bp

RefSeq ORF: 431 bp

Locus ID: 66475

Cytogenetics: 13 C3

MW: 15.8 kDa

Gene Summary: Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell. The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules. The large subunit (LSU) contains the ribosomal catalytic site termed the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds, thereby polymerizing the amino acids delivered by tRNAs into a polypeptide chain. The nascent polypeptides leave the ribosome through a tunnel in the LSU and interact with protein factors that function in enzymatic processing, targeting, and the membrane insertion of nascent chains at the exit of the ribosomal tunnel. Plays an important role in translational accuracy. [UniProtKB/Swiss-Prot Function]