

Product datasheet for **MG216204**

Rps23 (NM_024175) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rps23 (NM_024175) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rps23
Synonyms: 2410044J15Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216204 representing NM_024175
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCAAGTGTCTGGTCTCCGAAGTCCCGGAAGCTCCGCAGTACCGACGGGACCAGAAGTGGCATG
 ACAACAGTACAAGAAGGCCACTTGGGCACAGCCCTGAAGGCCAATCCGTTTGGGGTGCCTCTCATGC
 AAAGGGAATTGTCTGGAAAAAGTAGGGTTGAGGCCAACAGCCAAATCTGCCATCAGGAAGTGCCTC
 AGGGTGCAGTCTATTAAGAACGGGGAGAAGATCACAGCGTTCGTGCCAATGATGGCTGCCTGAAGTCA
 TTGAGGAAAATGATGAAGTTCTGGTTGCTGGATTTGGTCGAAAAGTTCATGCTGTAGGTGATATTCTGG
 AGTCCCGTTAAAGTGGTTAAAGTAGCCAATGTTCTCTGTTGGCTCTATACAAAGCAAGAAAGAAAGG
 CCAAGATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216204 representing NM_024175
 Red=Cloning site Green=Tags(s)

MGKCRGLRTARKLRSHRRDQKWHDKQYKKAHLGTALKANPFGGASHAKGIVLEKVGVEAKQPNSAIRKCV
 RVQLIKNGEKITAFVPNDGCLNFIEENDEVLVAGFGRKGHAVGDIPIGVRFKVVKVANVSLALYKGGKER
 PRS

TRTRPLE - GFP Tag - V

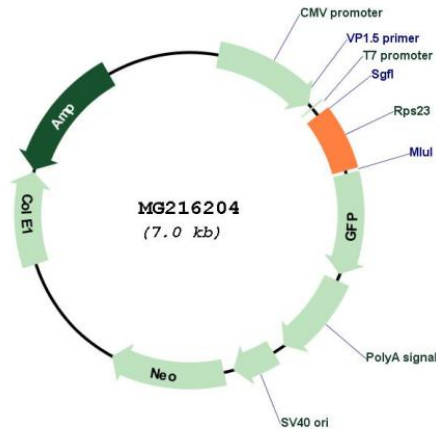
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN:

NM_024175

ORF Size:

429 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:	<ol style="list-style-type: none">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_024175.3 , NP_077137.1
RefSeq Size:	572 bp
RefSeq ORF:	432 bp
Locus ID:	66475
UniProt ID:	P62267
Cytogenetics:	13 C3
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>