

## Product datasheet for **RR203186**

### **Rps27a (NM\_031113) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rps27a (NM\_031113) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rps27a  
**Synonyms:** Uba52; Ubb  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR203186 representing NM\_031113  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGATTTTTGTGAAGACCC**TACAGGAAGACCATCAGCTCGAGGTTGAACCTCGGACACTATAG**  
AAAATGTAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTCTGATCAGCAGAGGTTGATCTTTGCTGG  
TAAGCAGTTGGAAGATGGCCGACTTTGTCTGACTACAACATTCAAAAGGAGTCCACTCTCCATCTCGTG  
CTGAGACTTCGTGGTGGCGCTAAGAAAAGGAAGAAGAAGTCTTACACCACCCAAAGAAGAACAAGCATA  
AGAGAAAAGAGGTCAAGTTGGCTGTGCTGAAATACTATAAGGTGGATGAAAATGGCAAAATCAGCCGACT  
TCGTGGGAATGTCTTCTGATGAATGTGGTGTGGAGTTTTTCATGGGTAGCCACTTTGACAGGCATTAC  
TGTGGCAAGTGTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203186 representing NM\_031113  
**Red=Cloning site Green=Tags(s)**

MQIFVKLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLV  
LRLRGGAKRKKKSYTTPKKNKHKKVLAFLKYYKVDENKISRLRRECPSECEGAGVFMGSHFDRHY  
CGKCCLYCFNKPEDK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

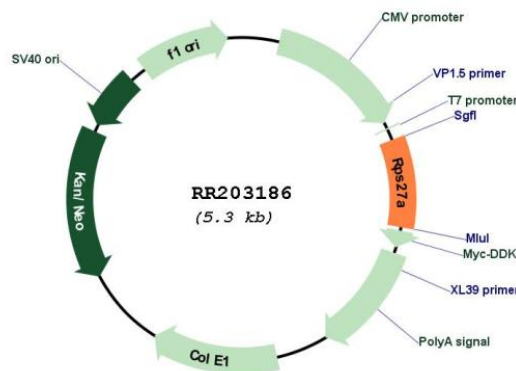


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_031113

ORF Size: 468 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_031113.2</a></u> , <u><a href="#">NP_112375.1</a></u>
<b>RefSeq Size:</b>	996 bp
<b>RefSeq ORF:</b>	471 bp
<b>Locus ID:</b>	100912032
<b>UniProt ID:</b>	<u><a href="#">P62982</a></u>
<b>Cytogenetics:</b>	14q22
<b>MW:</b>	18 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a fusion protein that contains ubiquitin at its N-terminus and ribosomal protein S27a at its C-terminus. When the human ortholog of this protein is expressed in yeast, it is processed post-translationally into two products, a free ubiquitin monomer and ribosomal protein S27a, a component of the 40S ribosomal subunit. There are multiple pseudogenes of this gene. There is a locus on chromosome 5 (GeneID:81777) that contains an intact copy of the open reading frame of this gene, that is likely to be the result of retrotransposition of an mRNA into the genome. The transcriptional status of this locus cannot be verified at the present time. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]