

## Product datasheet for **RR210091**

### Ran (NM\_053439) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Ran (NM\_053439) Rat Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Ran  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >RR210091 representing NM\_053439  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCCGCCAGGGAGAGCCGAGTCCAGTTCAGCTCGTCCTGGTGGGCGACGGCGGCACCCGGGAAGA  
CGACGTTTCGTGAAGCGCACTTGACGGCGAGTTTGAGAAGAAGTATGTAGCCACCCTGGGCGTGGAGGT  
GCACCCGCTCGTCTCCATACCAACAGAGGCCATCAAGTTCACGTTGGGACACAGCCGCCAGGAG  
AAGTTCGGGGCCTGCGCGATGGCTACTACATCCAAGCCAGTGTGCCATTATAATGTTTGACGTAACAT  
CAAGAGTACTTACAAGAACGTACCTAACTGGCATAGAGATCTGGTACGCGTGTGTGAAAACATCCCCAT  
TGTATTGTGTGGCAACAAAGTGGATATTAAGACAGGAAAGTGAAGGCAAAATCTATTGTCTTTCACCGA  
AAGAAGAATCTTCAGTACTATGACATTTCTGCCAAAAGTAACTACAACCTTGAAGGCCTTCTCTGGC  
TTGCCAGAAAGCTCATTGGAGATCCTAACTGGAGTTCGTTGCCATGCCTGCTTGGCCACCTGAGGT  
GGTCATGGACCCAGCTTTGGCAGCACAGTACGAGCATGATTTAGAGGTTGCTCAGACGACTGCGCTCCC  
GATGAGGATGACGACCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210091 representing NM\_053439  
Red=Cloning site Green=Tags(s)

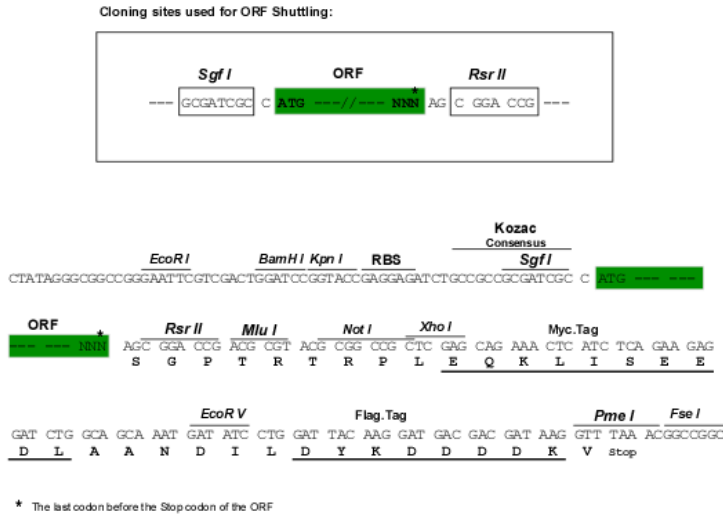
MAAQGEPQVQFKLVLDGGTGKTTFVKRHLTGEFEKKYVATLGEVHPLVFHTNRGPIKFNVWDTAGQE  
KFGGLRDGYIQAQCAIIMFDVTSRVTYKNVFNWHRDLVRVCENIPIVLGKNDIKDRKVKAKSIVFHR  
KKNLQYYDISAKSNYFEKPFLLWARKLIGDPNLEFVAMPALAPPEVVMDDPALAAQYEHDLVAQTALP  
DEDDDL

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

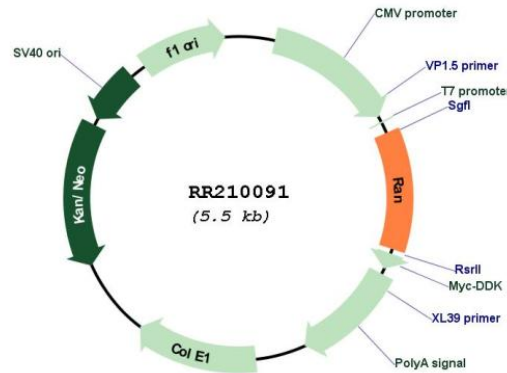


Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053439

ORF Size: 648 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_053439.1</a></u> , <u><a href="#">NP_445891.1</a></u>
<b>RefSeq Size:</b>	1084 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	84509
<b>UniProt ID:</b>	<u><a href="#">P62828</a></u>
<b>Cytogenetics:</b>	12q13
<b>MW:</b>	24.4 kDa
<b>Gene Summary:</b>	plays a role in nucleocytoplasmic protein transport; regulates microtubule assembly; may play a role in microtubule nucleation during spermiogenesis [RGD, Feb 2006]