

## Product datasheet for **RC233640**

### **RPP38 (NM\_001265601) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | RPP38 (NM_001265601) Human Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK                                                                        |
| Symbol:                   | RPP38                                                                          |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-Entry (PS100001)                                                         |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                           |
| ORF Nucleotide Sequence:  | >RC233640 representing NM_001265601<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCAGCTCCTCAAGCACCGGGCGGGGATCTCTCCGTAAACGAGACCTCTGGTTGTGAAGACGT  
 CGTTGAACAACCCATACATCATCCGCTGGAGCGCTCTGGAGAGCGAGGATATGCACTTCATCCTACAGAC  
 GCTTGAGGACAGGCTTAAAGCTATTGGACTTCAGAAGATTGAAGATAAGAAGAAAAAGACAAACACCT  
 TTTCTGAAAAAAGAAAGCAGAGAGAAATGCAGCATTGCTGTTGATATTAGTGAGAATCTGAAGGAGAAGA  
 AAACAGATGCTAAGCAGCAAGTGCAGGGTGGACGCTGCACACGTCAGGAAGCAGCTTGCCATTGGCGT  
 TAACGAAGTTACCAGAGCCCTGGAAAGGAGGGAAGTCTGTTAGTTCTGGTGTGTAATCAGTCAAGCCT  
 GCCATGATCACCTCACACTTGATTGAGTTAAGCCTAAGCAGAAGTGTCCCTGCCTGTGAGGTCCCCCGGC  
 TCAGTGAGAGAATCGCCCCGTCATTGGCTTAAATGTGTTCTAGCCTTGGCGTTCAAAAAGAACCCAC  
 TGACTTTGTGGACGAAGTAAGAGCCATCATCCCCAGAGTCCCCAGTTAAGTGTACCATGGCTTCAAGAC  
 AGAATTGAAGATTCTGGGAAAATTTAGAGACTGAACCTCTGGAAAGCCAAGACAGAGAGCTTTGGACA  
 CTTCAATTTGAAGATCTGTCAAAACCTAAGAGAAAGCTTGCTGACGGTCGGCAGGCTTCTGTAAACATTACA  
 ACCCCTTAAATAAAGAACTGATTCAAACCTAATAAGATAAGGAAACCAACCAAAAGTAAAAAGCT  
 ACTCAAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC233640 representing NM\_001265601

Red=Cloning site Green=Tags(s)

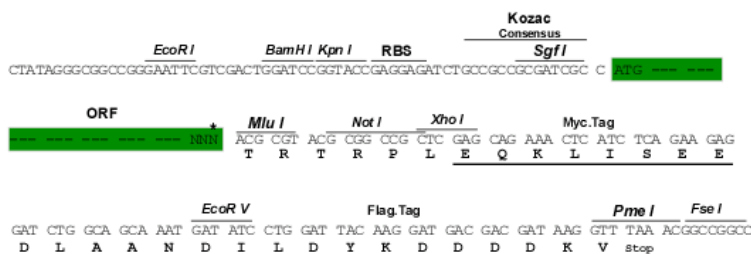
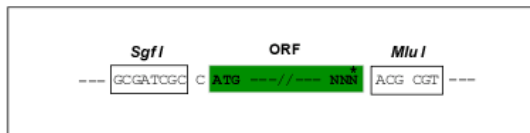
MAAAPQAPGRGSLRKRTRPLVVKTSLNPNYIIRWSALESEDMHFILQTLERDLKAIGLQKIEDKKKKNKTP  
FLKKEGREKCSIAVDISENLKEKKTKDAKQVSGWTPAHVRKQLAIGVNEVTRALERRELLVLVCKSVKP  
AMITSHLIQLSLSRSPACQVPRLSERLAPVIGLKCVLALAFKKNTTDFVDEVRAIIPRVPSSLVSPWLQD  
RIEDSGENLETEPLESQDRELLDTSFEDLSKPKRKLADGRQASVTLQPLKIKKLIPNPNKIRKPPKSKKA  
TPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM 001265601

ORF Size: 849 bp

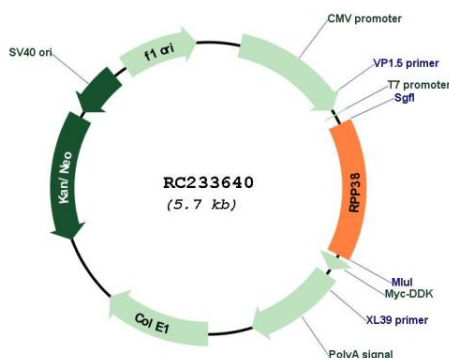
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_001265601.1, NP_001252530.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1554 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 852 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 10557                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>P78345</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 10p13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MW:</b>                    | 32.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | Component of ribonuclease P, a ribonucleoprotein complex that generates mature tRNA molecules by cleaving their 5'-ends (PubMed:9037013, PubMed:9630247, PubMed:10444065, PubMed:30454648). Also a component of the MRP ribonuclease complex, which cleaves pre-rRNA sequences (PubMed:28115465).[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                        |

## Product images:



Circular map for RC233640