

## Product datasheet for **RG200052**

### MRPL18 (NM\_014161) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MRPL18 (NM_014161) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | MRPL18  |
| Synonyms:                 | HSPC071; L18mt; MRP-L18   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG200052 representing NM_014161<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTTCGGTCGCGGTTTTGGGGTTGTTCTCGGTTTGCAGGAACCTGGGTGCAGGTTTCGAGCCC  
TGTCACCAAGCTCCGAGCCGGCAGCGAAACCTGAAGTGGACCCTGTGGAAATGAAGCTGTCGCCCCAGA  
ATTCACCAACCGGAACCCCGGAACCTGGAGCTTTTATCTGTAGCCAGGAAAGAGCGGGGCTGGCGGACG  
GTGTTTCCCTCCCGTGAGTTCTGGCACAGGTTGCGAGTTATAAGGACTCAGCATCATGTAGAAGCACTTG  
TGGAGCATCAGAAATGGCAAGTTGTGGTTTCGGCCTCCACTCGTGAGTGGGCTATTAAGGACACCTTTA  
TAGTACCAGAAATGTGGTGGCTTGTGAGAGTATAGGACGAGTGCTGGCACAGAGATGCTTAGAGGCGGGA  
ATCAACTTCATGGTCTACCAACCAACCCCGTGGGAGGCAGCCTCAGACTCGATGAAACGACTACAAAGTG  
CCATGACAGAAGGTGGTGTGTTCTACGGGAACCTCAGAGAATCTATGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

|                   |  |
|-------------------|--|
| Protein Sequence: | >RG200052 representing NM_014161<br>Red=Cloning site Green=Tags(s) |
|-------------------|--|

MALRSRFWGLFSVCRNPGCRFAALSTSSEPAAKPEVDPVENEVAPEFTNRNPRNLELLSVARKERGWR  
VFPSREFWHRLRVIRTQHHVEALVEHQNGKVVVSASTREWAIAKKHLYSTRNVVACESIGRVLAQRCL  
EAGINFMVYQPTPWEAASDSMKRLQSAMTEGGVVLREPQRIYE

**TRTRPLE** - GFP Tag - V

|                    |           |
|--------------------|-----------|
| Restriction Sites: | SgfI-MluI |
|--------------------|-----------|



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**Cloning Scheme:**

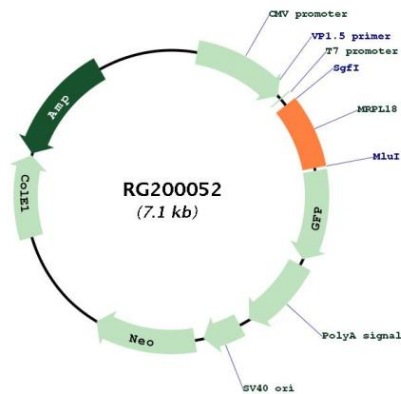

|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_014161   |
| <b>ORF Size:</b>              | 540 bp  |
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | 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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| <b>RefSeq:</b>                | <a href="#">NM_014161.5</a>   |
| <b>RefSeq Size:</b>           | 989 bp  |
| <b>RefSeq ORF:</b>            | 543 bp  |
| <b>Locus ID:</b>              | 29074   |

UniProt ID: [Q9H0U6](#)

Cytogenetics: 6q25.3

**Gene Summary:** This nuclear gene encodes a protein component of the larger 39S subunit of mitochondrial ribosome. This protein may also aid in the import of nuclear-encoded 5S rRNA into mitochondria. Alternative splicing results in multiple transcript variants, most of which are not predicted to encode a protein. A pseudogene of this gene is found on chromosome 16. [provided by RefSeq, Jan 2016]

## Product images:



Circular map for RG200052