

## Product datasheet for **SC111918**

### **TBRG4 (NM\_030900) Human Untagged Clone**

#### **Product data:**

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | TBRG4 (NM_030900) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | TBRG4                                  |
| Synonyms:                 | CPR2; FASTKD4                          |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u>pCMV6-XL5</u>                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_030900, the custom clone sequence may differ by one or more nucleotides

```
ATGGCAGCTCACCTGGTAAAGCGATGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGG
CTCCAGTTGGCCGACTGAGACTTGCTGGGTAGCCATAAGACTCTGACTTCCTCAGCCACCTCACCCAT
TTCCACCTCCCAGGTTCTTGATGGAGCCGGTGGAGAAGGAACGAGCATCTACTCCCTACATAGAGAAG
CAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAGGAGCTCCTGGAGCTACTTGGTGGCAGTCAGG
ACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCTCACTTGCTGTCTGAGAAGCCAGAAGA
TAAAGGCTTGCTCATACAGGATGCCCACTTTCATCAACTTCTGTCTGTCTCAACAGTCAGATTGCCTCG
GTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATCCCCAAGGCCTCCAAGG
AGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCACCTGGCCTTCT
GGCAGAGTCCTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTCACACAC
CTGGAAAGGCGTTGGACAGAAATTGAAGATTCCCACACATTAGTGACCGTCATGATGAAGGTGGGACACC
TCTCGGAGCCACTAATGAACCGCTGGAAGACAAGCACGTCCTGAACAGAGCGCAGGACATCACCTGCC
CCACCTGTGCAGCGTACTTCTGGCTTTTGCGCGTCTGAACTTCCATCCAGACCAAGAGGATCAGTTCTTC
AGCCTGGTACATGAGAAGCTGGGGTCAGAGCTGCCAGGCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGT
GGGCCCTGTGTGTGCTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGTCTCCACCCTGAATTTACAT
CCAATTTCTAGGGGGCAAGTCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACT
GCCCTGCTGGAGTACCCCGAGTACTCGGGTCCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAG
CCCTTGACAGGAAGGTGACCCCCCTGCAAAAGGAGCTGCAGGAGACGCTGAAGGGGCTGCTGGGAGCGC
CGACAAGGGCAGCCTCGAGGTGGCCACGCAGTATGGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGT
GACGGCGAGTTTCTGCCCGTAAGGGACTTTGTGGCACCTCACCTTGCCAGCCAACTGGGAGCCAGTCAC
CACCTCCAGGGTCTAAGAGGCTAGCGTTCTTGCGGTGGGAGTTCCCAACTTCAACAGCCGAAGCAAGGA
CTTGCTGGGTGCTTTGTTCTGGCCGCGACACATAGTGGCTGCAGGCTTCTGATAGTGGACGTCCCA
TTCTATGAGTGGCTGGAACCAAGTCTGAATGGCAGAAAGGCGCTACCTCAAGGACAAGATGCGCAAG
CGGTGGCTGAGGAGCTGGCCAAGTGA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_030900 unedited

```
GTGCAAATTTGTATACGACTCACTATAGCGCGCCGCAATTTCGCACGAGGCCTCATGGTT
CCGGGGACAGTTAGGGCGGCGGATGGAGGTGAGCGGTGGTGTCTGCTGCGGTTTGAATC
ACTTGCTAGGAGTCTTGCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAG
CGATGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGC
CGACTGAGACTTGCTGGGTAGCCATAAGACTCTGACTTCCTCAGCCACCTCACCCATT
TCCCACCTCCCAGGTTCTTGATGGAGCCGGTGGAGAAGGAACGAGCATCTACTCCCTAC
ATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAGGAGCTCCTGGAG
CTACTTGGTGGCAGTCACGACTTGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTC
TCTCACTTGCTGTCTGAGAAGCCAGAAGATAAAGGCTTGCTCATACAGGATGCCCACTTT
CATCAACTTCTGTCTGCTCAACAGTCAGATTGCCTCGGTCTGGCATGGTACCCTCTCG
AAGCTGCTGGGAAGCCTGTATGCTCTGGGCATCCCCAAGGCCTCCAAGGAGCTGCAGTCG
GTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCACCTGGCCTTCTG
GCAGAGTCCTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTG
CTCACACACCTGGAAAGGCGTTGGACAGANATTGAAGATTCCCACACATTAGTGACCGTC
ATGATGAAAGTGGGACACCTCTCGNAGCCACTATGAACCGNCTGNAAGACAGTGCCTGGN
AGTGGTGGAGCACTTTGCN
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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_030900 unedited</p> <pre>GTACCGCGGGCCGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTGGAC AGTGCAAAGGGTGACCAAGCCTGGGAAGGCCCCAGGGGTCCAACACAAAATTAAGGTT TATTATACACAAGAGGACGTTCTGTCCCTCAAAGGGGCTGGCCACCCTCCCCACTCTGGC CAAGGTCTGCACAGAGGTTTGTCTCAAGGGTGACCCTTCTTGCCGCCCCACAGCTAGA CCTCCGGCGGAGAGGCACGCAGTCCATGCTGCTGGCACAAGTCACTTGGCCAGCTCCTCA GCCACCGCTTTGCGCATCTTGTCTTGAGGTAGGCGCCTTTCTGCCATTAGACTTGAGT TCCAGCCACTCATAGAATGGGACGTCCACTATCAGGAAGCCTGCAGCCACTATGTGTCGC CGGGCCAGAACAAGCGACCCAGCAAGTCTTGCTCGGCTGTTGAAGTTGGGGAACCTCC CACCGCAAGAAGCTAGCCTCTTAGACCCTGGAGGTGGTGACTGGCTCCCAGTTGGCTGG GCAAGGTGAGGTGCCACAAAGTCCCTTACGGGCAGAACTCGCCGTCACTGTCCAGCAGC ACCTCAGCATCCAGCACCCAGCCATACTGCGTGGCCACCTCGAGGCTGCCCTTGTNCGCG CTCCCCAGCAGCCCTTCAGCGTCTCCTGCAGCTCCTTTTGCAGGGGGGTACCTTCCTG TGCAGGGCTGAAGGCCAGGGGCCACAGCCGAGGCAGGCAGAAGGGGACCCGAGTACTCG GNGTACTCCANCAGGGCAGTGGCGTTGATGTGCACCAACTCCTGAANGTGTCTGATCCT CCTGAGACCTGCCCCCTAAAATTGGATGTGGAATTCAGGGGGGAGGACCGTTTGCCTT TTGTTTCCGTGGCTGCTGTACACACAN</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ACCN:</b>                        | NM_030900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Insert Size:</b>                 | 1566 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>OTI Disclaimer:</b>              | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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_030900.2</a></u> , <u><a href="#">NP_112162.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>                 | 1956 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq ORF:</b>                  | 1566 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>                    | 9238                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID:</b>                  | <u><a href="#">Q969Z0</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>                | 7p13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Gene Summary:**

Plays a role in processing of mitochondrial RNA precursors and in stabilization of a subset of mature mitochondrial RNA species, such as MT-CO1, MT-CO2, MT-CYB, MT-CO3, MT-ND3, MT-ND5 and MT-ATP8/6. May play a role in cell cycle progression (PubMed:9383053).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks two consecutive exons in the coding region, but maintains the reading frame, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which is shorter than isoform 1.