

Product datasheet for **RG222933**

TBRG4 (NM_030900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBRG4 (NM_030900) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBRG4
Synonyms:	CPR2; FASTKD4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222933 representing NM_030900
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCAGCTCACCTGGTAAAGCGATGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGG
 CTCCAGTTGGCCGACTGAGACTTGCCTGGGTAGCCATAAGACTCTGACTTCCTCAGCCACCTCACCCAT
 TTCCACCTCCCAGGTTCTTGATGGAGCCGGTGGAGAAGGAACGAGCATCTACTCCCTACATAGAGAAG
 CAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAGGAGCTCCTGGAGCTACTTGGTGGCAGTCACG
 ACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCTCACTTGTCTGCTGAGAAGCCAGAAGA
 TAAAGGCTTGCTCATACAGGATGCCACTTTCATCAACTTCTGTCTGCTCAACAGTCAGATTGCCTCG
 GTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATCCCCAAGGCCTCCAAGG
 AGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCACCTGGCCTTCT
 GGCAGAGTCCTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTCACACAC
 CTGGAAAGGCGTTGGACAGAAATTGAAGATTCCCACACATTAGTGACCGTCATGATGAAGGTGGGACACC
 TCTCGGAGCCACTAATGAACCGCTGGAAGACAAGCACGTCTGAACAGAGCGCAGGACATCACCTGCCC
 CCACCTGTGCAGCGTACTTCTGGCTTTTGCCTGCTGAACCTCCATCCAGACCAAGAGGATCAGTTCTTC
 AGCCTGGTACATGAGAAGCTGGGGTCAAGCTGCCAGGCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGT
 GGGCCCTGTGTGTGCTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGTCCTCCACCCTGAATTTACAT
 CCAATTTCTAGGGGGCAAGTCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACT
 GCCCTGCTGGAGTACCCCGAGTACTCGGGTCCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAG
 CCCTTGACAGGAAGGTGACCCCCCTGCAAAGGAGCTGCAGGAGACGCTGAAGGGGCTGCTGGGGAGCGC
 CGACAAGGGCAGCCTCGAGGTGGCCACGCAATGGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGT
 GACGGCGAGTTTCTGCCGTAAGGGACTTTGTGGCACCTCACCTTGCCAGCCAACTGGGAGCCAGTCAC
 CACCTCCAGGTCTAAGAGGCTAGCGTTCTTGGGTGGGAGTTCCCCAACTTCAACAGCCGAAGCAAGGA
 CTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGGTGCAGGCTTCTGATAGTGGACGTCCCA
 TTCTATGAGTGGCTGGAAGTCAAGTCTGAATGGCAGAAAGGCGCTACCTCAAGGACAAGATGCGCAAG
 CGGTGGCTGAGGAGCTGGCCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

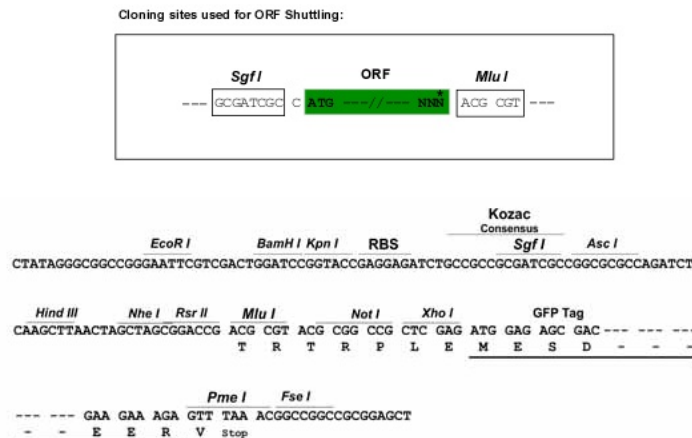
>RG222933 representing NM_030900
 Red=Cloning site Green=Tags(s)

MAAHLVKRCTLLEAARQAPAMAPVGRRLRLAWVAHKTLTSSATSPISHLPGSLMEPVEKERASTPYIEK
 QVDHLIKKATRPEELLELLGGSHDLDSNQAMVLIRLSHLLSEKPEDKGLLIQDAHFHQLLCLLNSQIAS
 VWHGTLKLLGSLYALGIPKASKELQSVEQEVWRMRKLYKHLAFLAESCATLSQEQHSQELLAELLTH
 LERRWTEIEDSHTLVTVMMKVGHLSPLMNRLEDKHVLNRAQDITLPHLCSVLLAFARLNFHPDQEDQFF
 SLVHEKLGSELPGLEPALQVDLVWALCVLQQAREAEQAVLHPEFHIQFLGGKSQKDQNTFQKLLHINAT
 ALLEYPEYSGPLLPASAVAPGPSALDRKVTPLQKELQETLKGLLSADKGSLEVATQYGVWVLDAEVLLDS
 DGEFLPVRDFVAPHLAQPTGSQSPPPGSKRLAFLRWEFPNFSRSKDLLGRFVLARRHIVAAGFLIVDVP
 FYEWLELKSEWQKGAYLKDKMRKAVAEELAK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_030900

ORF Size: 1563 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030900.3](#)

RefSeq Size: 1956 bp

RefSeq ORF: 1566 bp

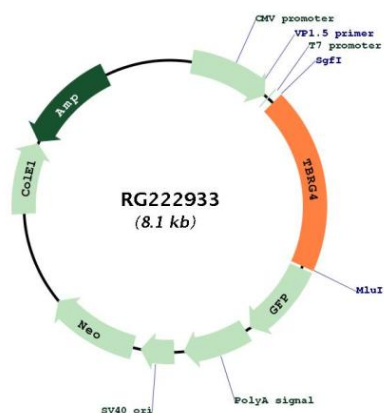
Locus ID: 9238

UniProt ID: [Q969Z0](#)

Cytogenetics: 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]

Product images:



Circular map for RG222933