

Product datasheet for **RG234639**

TBRG4 (NM_001261834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBRG4 (NM_001261834) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG234639 representing NM_001261834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTCAGCGGTGGTCTCGCTGCGACATCATGGCAGCTCACCTGGTAAAGCGATGCACGTGCCTCC
 TGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCTGGGTAGCCCA
 TAAGACTCTGACTTCCTCAGCCACCTCACCCATTTCCACCTCCCAGGTTCTTGATGGAGCCGGTGGAG
 AAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAG
 AGGAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCG
 GCTCTCTCACTTGTCTGCTGAGAAGCCAGAAGATAAAGGCTTGTCTATACAGGATGCCACTTTTCATCAA
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 TGTATGCTCTGGGCATCCCCAAGGCCTCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCAT
 GCGGAAGCTCAAGTACAAGCACCTGGCCTTCTGGCAGAGTCCTGTGCCACCCTCTCACAGGAGCAGCAC
 TCGCAGGAGCTGCTGGCTGAGCTGCTCACACACCTGGAAGGCGTTGGACAGAAATTGAAGATTCACACA
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 CATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTACTCGGGTCCCCTTCTGCCTGCCTCGGCTGTGGCC
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 GCCGAAGCAAGGACTTGTGGGTGCTTTGTTCTGGCCCGGCACACATAGTGGCTGCAGGCTTCTTGAT
 AGTGGACGTCCCATTCTATGAGTGGCTGGAAGTCAAGTCTGAATGGCAGAAAGGCGCCTACCTCAAGGAC
 AAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

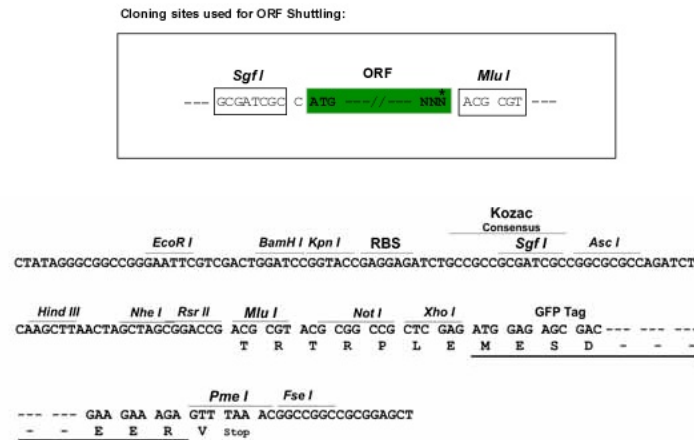
>RG234639 representing NM_001261834
 Red=Cloning site Green=Tags(s)

MEVSGGARCDIMAAHLVKRCTCLLREARQAPAMAPVGRRLRLAWVAHKLTSSATSPISHLPGSLMEPVE
 KERASTPYIEKQVDHLIKKATRPEELLELLGGSHDLDSNQAAMVLIRLSHLLSEKPEDKGLLIQDAHFHQ
 LLCLLNSQIASVWHGTLKLLGSLYALGIPKASKELQSVEQEVWRMRKLYKHLAFLAESCATLSQEQH
 SQELLAELLTHLERRWTEIEDSHTLVTVMMKVGHLSPLMNRLEDKCLELVEHFGPNELRKVLVMLAAQS
 RRSVPLLRRAISYHLVQKPFSLTKDVLLDVAYAYGKLSFHQTQVSQRLATDLLSLMPSLTSGEVAHCAKSF
 ALLKWLKSLPLFEAFQAHLNRAQDITLPHLCSVLLAFARLNFHPDQEQFFSLVHEKLGSELPGLEPALQ
 VDLVWALCVLQQAREAELQAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGPLLPASAVA
 PGPSALDRKVTPQLQELQETLKGLLGSADKGSLEVATQYGVWLDDEVLLDSDGEFLPVRDFVAPHLAQPT
 GSQSPPPGSKRLAFLRWEFPNFSRSKDLLGRFVLARRHIVAAGFLIVDVPFYEWLELKSEWQKAYLKD
 KMRKAVAEELAK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001261834

ORF Size: 1926 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.

RefSeq: [NM_001261834.1](#), [NP_001248763.1](#)

RefSeq Size: 2247 bp

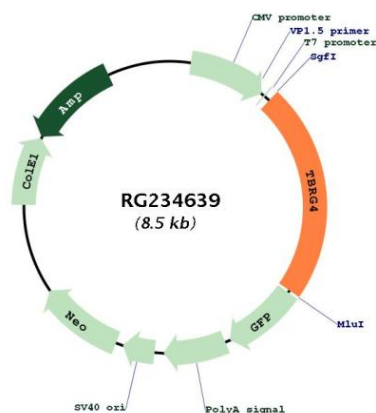
RefSeq ORF: 1929 bp

Locus ID: 9238

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 RG234639