

Product datasheet for **RG200899**

TRIR (NM_024038) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TRIR
Synonyms:	C19orf43; fSAP18; TERCIR
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG200899 ORF sequence, **codon optimized**.
Due to the complexity of NM_024038, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence
remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCAGCCAGAGGTAGGAGGGCTGAGCCACAGGGCAGGGAAGCCCCGGGACCAGCTGGTGGTGGTGGG
GAGGATCAAGATGGGCAGAGAGTGGTAGTGGGACCTCCCCTGAGTCTGGAGATGAGGAGGTCACTGGAGC
TGGGTCTCACCCGTGTCAGGCGGTGTTAATCTCTCGCTAACGACGGCTCATTCTGGAGTTGTTCAA
AGAAAGATGGAGGAGGAACAGAGGCAGAGACAAGAGGAGCCCCACCTGGGCCTCAAAGGCCTGATCAGT
CAGCAGCCGCCGCTGGTCTGGCGACCCCAAGAGAAAAGGCGGACCCGGCTCCACCCTGTCTTTGTCGG
TAAACGGCGAGGGGAAACAAGCTGGCCTTGAAGACAGGTATTGTTGCAAAAAACAGAAGACGGAGGAT
GAAGTGCTGACCTCTAAAGGAGATGCTTGGGCCAAGTATATGGCGGAGGTCAAGAAATATAAAGCACACC
AATGCGGAGACGACGATAAGACTCGCCCCCTGGTGAAG

AC**CGGCCGCT**CGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG200899 representing NM_024038

Red=Cloning site Green=Tags(s)

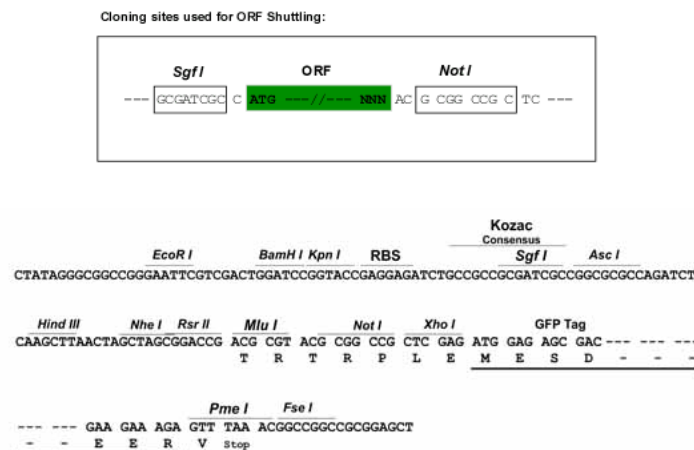
MAARGRRAEPQGREAPGPAGGGGGSRWAESGSGTSPESGDDEEVSGAGSSPVSGGVNLFANDGSFLELFK
RKMEEEQRQRQEEPPPGQRPDQSAAGPGDPKRKGPGSTLSFVGKRRGGNKLALKTGIVAKKQKTED
EVLTSKGDWAKYMAEVKKYKAHQCGDDDKTRPLVK

TRPLE - GFP Tag - V

Restriction Sites:

SgfI-NotI

Cloning Scheme:



ACCN:

NM_024038

ORF Size:

528 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_024038.2](#), [NP_076943.1](#)

RefSeq Size: 879 bp

RefSeq ORF: 531 bp

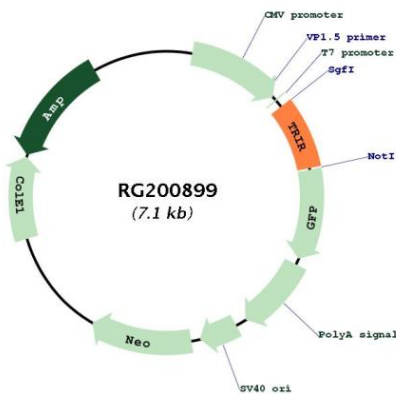
Locus ID: 79002

UniProt ID: [Q9BQ61](#)

Cytogenetics: 19p13.13

Gene Summary: Exoribonuclease that is part of the telomerase RNA 3' end processing complex and which has the ability to all four unpaired RNA nucleotides from 5' end or 3' end with higher efficiency for purine bases (PubMed:28322335).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200899