

## Product datasheet for **RG233702**

### TREX1 (NM\_007248) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TREX1 (NM\_007248) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TREX1  
**Synonyms:** AGS1; CRV; DRN3; HERNS; RVCLS  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233702 representing NM\_007248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGACCCATCTTTTTCGACATGGAGGCCACTGGCTTGCCCTTCTCCAGCCCAAGGTCACGGAGC  
 TGTGCCTGCTGGCTGTCCACAGATGTGCCCTGGAGAGCCCCCACCTCTCAGGGCCACCTCCACAGT  
 TCCTCCACCACCGCGTGTGGTAGACAAGCTCTCCCTGTGTGGCTCCGGGAAGGCTGCAGCCCTGCA  
 GCCAGCGAGATCACAGGCTGAGCACAGCTGTGCTGCCAGCGCATGGCGTCAATGTTTTGATGACAAC  
 TGGCCAACTGCTCCTAGCCTTCTGCGGCCAGCCACAGCCCTGGTGCCTGGTGGCACACAATGGTGA  
 CCGCTACGACTTCCCCCTGCTCCAAGCAGAGCTGGCTATGCTGGGCCTCACCAAGTCTGGATGGTGC  
 TTCTGTGTGGATAGCATCACTGCGCTGAAGGCCCTGGAGCGAGCAAGCAGCCCTCAGAACACGGCCAA  
 GGAAGAGCTATAGCCTAGGCAGCATCTACACTCGCCTGTATGGGAGTCCCTCCAGACTCGCACACGGC  
 TGAGGGTGTGCTGCTGGCCCTGCTCAGCATCTGTGAGTGGAGACCACAGGCCCTGCTGCGGTGGTGGAT  
 GCTCACGCCAGGCCTTTTCGGCACCATCAGGCCATGTATGGGGTACAGCCTCTGCTAGGACCAAGCCAA  
 GACCATCTGCTGTACAACCACTGCACACCTGGCCACAACCAGGAACACTAGTCCCAGCCTTGGAGAGAG  
 CAGGGGTACCAAGGATCTTCTCCAGTGAAGACCCTGGAGCCCTATCCAGGGAGGGCTGCTGGCCCA  
 CTGGGTCTGCTGGCCATCCTGACCTTGGCAGTAGCCACACTGTATGGACTATCCCTGGCCACACCTGGG  
 AG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233702 representing NM\_007248  
 Red=Cloning site Green=Tags(s)

MQTLIFFDMEATGLPFSQPKVTELCLLAVHRCALLESPTTSQGPPTVPPPPRVVDKLSLCVAPGKACSPA  
 ASEITGLSTAVLAAHGRQCFDDNLANLLAFLRRQPQPWCLVAHNGDRYDFLLQAEAMLGLTSALDGA  
 FCVDSITALKALERASSPSEHGPRKSYSLGSIYTRLYGQSPDSHTAEGDVLALLSICQWRPQALLRWVD  
 AHARPFGTIRPMYGVITASARTKPRPSAVTTTAHLATTRNTSPSLGESRGTCDLPPVKDPGALSREGLLAP  
 LGLLAILTLAVATLYGLSLATPGE

TRTRPLE - GFP Tag - V

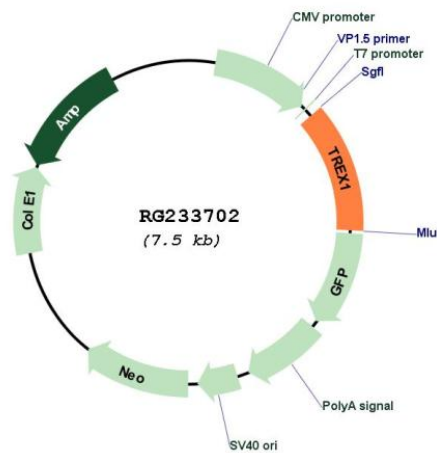
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_007248

**ORF Size:** 912 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>RefSeq:</b>	<a href="#">NM_007248.5</a>
<b>RefSeq Size:</b>	1647 bp
<b>RefSeq ORF:</b>	915 bp
<b>Locus ID:</b>	11277
<b>UniProt ID:</b>	<a href="#">Q9NSU2</a>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytosolic DNA-sensing pathway
<b>Gene Summary:</b>	This gene encodes a nuclear protein with 3' exonuclease activity. The encoded protein may play a role in DNA repair and serve as a proofreading function for DNA polymerase. Mutations in this gene result in Aicardi-Goutieres syndrome, chilblain lupus, Cree encephalitis, and other diseases of the immune system. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2012]