

Product datasheet for **SC304415**

TREX1 (NM_016381) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TREX1 (NM_016381) Human Untagged Clone
Tag:	Tag Free
Symbol:	TREX1
Synonyms:	AGS1; CRV; DRN3; HERNS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_016381 edited
 GTGCTGGTCCCCTAAGGAAACACCTCACCTCTCCAACCTCCTGCCTGAAAATGGGCC
 CTGGAGCTCGCAGACAGGCAGGATTGTGCAGGGAAGGCCTGAGATGTGCTTCTGCCAC
 CCCTACCCCACTCCCTCCCTTCGGATCTTAACACTGGGCACTCACACCCACCCCAT
 GCTCCTCTCCAGGCTCAGCAGCAGGTACGTACCCAACCATGGGCTCGCAGGCCCTGCCCC
 CGGGGCCATGCAGACCCTCATCTTTTTCGACATGGAGGCCACTGGCTTGCCTTCTCCC
 AGCCCAAGGTCACGGAGCTGTGCCTGCTGGCTGTCCACAGATGTGCCCTGGAGAGCCCC
 CCACCTCTCAGGGGCCACCTCCACAGTTCCTCCACCACCGCGTGTGGTAGACAAGCTCT
 CCCTGTGTGTGGTCCGGGAAGGCCTGCAGCCCTGCAGCCAGCGAGATCACAGGTCTGA
 GCACAGCTGTGCTGGCAGCGCATGGGCGTCAATGTTTTGATGACAACCTGGCCAACCTGC
 TCCTAGCCTTCTGCGGGCCAGCCACAGCCCTGGTGCCTGGTGGCACACAATGGTGACC
 GCTACGACTTCCCCTGCTCCAAGCAGAGCTGGCTATGCTGGGCCTCACAGTGCTCTGG
 ATGGTGCCTTCTGTGTGGATAGCATCACTGCGCTGAAGGCCCTGGAGCGCAAGCAGCC
 CCTCAGAACACGGCCCAAGGAAGAGCTATAGCCTAGGCAGCATCTACACTCGCCTGTATG
 GGCAGTCCCCTCCAGACTCGCACACGGCTGAGGGTGTGCTGCTGGCCCTGCTCAGCATCT
 GTCAGTGGAGACCACAGGCCCTGCTGCGGTGGGTGGATGCTCACGCCAGGCCCTTTCGGCA
 CCATCAGGCCATGTATGGGTCACAGCCTCTGCTAGGACCAAGCCAAGACCATCTGCTG
 TCACAACCACTGCACACCTGGCCACAACCAGGAACACTAGTCCCAGCCTTGGAGAGAGCA
 GGGGTACCAAGGATCTTCTCCAGTGAAGGACCCTGGAGCCCTATCCAGGAGGGGCTGC
 TGGCCCACTGGGTCTGCTGGCCATCCTGACCTTGGCAGTAGCCACACTGTATGGACTAT
 CCCTGGCCACACCTGGGAGTAGGCCAAGAAGGAAAATCTGACGAATAAAGACCCCG



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016381 unedited CGTTCAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGCCCTTGTGCTGGT CCCCTAAGGAAACCACCTCACCTCTCCAACCTCCTGCCTGAAAATGGGCCCTGGAGCT CGCAGACAGGGCAGGATTGTGCAGGGAAGGCCTGAGATGTGCTTCTGCCACCCCTACC CCACTCCCTCCCCTTCGGATCTTAACACTGGGCACTCACACCCACCCCATGCTCCTCT CCAGGCTCAGCAGCAGGTACGTACCAACCATGGGCTCGCAGGCCCTGCCCCGGGGCCC ATGCAGACCCTCATCTTTTTTCGACATGGAGGCCACTGGCTTGCCCTTCTCCCAGCCCAAG GTCACGGAGCTGTGCCTGCTGGCTGTCCACAGATGTGCCCTGGAGAGCCCCCACCTCT CAGGGGCCACCTCCCACAGTTCCCTCCACCACCGCGTGTGGTAGACAAGCTCTCCCTGTGT GTGGCTCCGGGAAGGCCTGCAGCCCTGCAGCCAGCGAGATCACAGGTCTGAGCAGAGCT GTGCTGGCAGCGCATGGGCGTCAATGTTTTGATGACAACCTGGCCAACCTGCTCCTAGCC TTCCTGCGGCCAGCCACAGCCCTGGTGCCTGGTGGCACACAATGGTGACCGCTACGAC TTCCCCCTGCTCAAGCAGAGCTGGCTATGCTGGGCCTCACCAGTGTCTGGATGGTGCC TTCTGTGTGGATAGCATCACTGCGCTGAAGGCCCTGGAGCGAGNCAGCAGCCCCTCAGAA CACGGCCCCAGGAAGAGCTATAGCCTAAGCAGCATCTACACTCGCCTGTATGGGCAGTCC CCCTCAGACTCGCACACGGCTGAGGGTGTATGCTCCTGGCCCTGCTCAGCATCTGTCAGTGG AGACACAAGCCCTG
Restriction Sites:	Please inquire
ACCN:	NM_016381
Insert Size:	1200 bp
OTI Disclaimer:	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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_016381.2</u> , <u>NP_057465.1</u>
RefSeq Size:	2216 bp
RefSeq ORF:	1110 bp
Locus ID:	11277
UniProt ID:	<u>Q9NSU2</u>
Cytogenetics:	3p21.31

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytosolic DNA-sensing pathway

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).