

Product datasheet for SC115158

TRPS1 (NM_014112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRPS1 (NM_014112) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRPS1
Synonyms:	GC79; LGCR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115158 sequence for NM_014112 edited (data generated by NextGen Sequencing)

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ATGCCTTATGAAGTCAATGCTGGGTATGATTTTACAAATATGGTCCGAAAAAGAACCC
CCTCTGAGAAACGTTGCAAGTGAAGCGAGGGCCAGATCCTGGAGCCTATAGGTACAGAA
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TCTTCTAGCAGTAAGAAGGACTTGAAAAGCGCAGTTCTGAGTGAGAAGGCTGGCTTCAAT
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AGAAATATGTTGGCTTTCTCATCTCCAGCTGCTGGGGAGTCTGTGAGCCCTTGAAGTCT
CCGCAAAGAGCAGAGGCAGATGACCCTCAAGATATGGCCTGCACCCCTCAGGGGACTCA
CTGGAGACAAAGGAAGATCAGAAGATGTCACCAAAGGCTACAGAGGAAACAGGGCAAGCA
CAGAGTGGTCAAGCCAATTGTCAAGTTTGAGCCAGTTTCAGTGGCCTCAAAAAACCCA
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AAAAGTTCAGAAGGAGAGACAATGACCAAGACAGACAAGAGCTCGAGTGGGGCTAAAAAG
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AGGAACAATGCACAAGTGGAAAAAATGGAAAACCTAAAGAGTAA

Clone variation with respect to NM_014112.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014112 unedited
 CGGGTTACGATTTTCGTAACGACTGCACTATAGGCGGCCGCGAAATTCGCACGAGAAAGA
 CTTTTTCTCTCCCCCGCAATAATCCAAGATCAACTCTGCAAACAACAGAAAGACGGTTC
 ATGGCTTTGGCCCGCCGCCACCATCTTTCGGGCTGCCGAGGGTGTCTTGACGATTAAT
 CAACAGATGTACAGATCAGCTCTCAAAATGTCTTCTGTGTCTTCTGAGCATCTTCTAAGA
 CAATTGCATTAGCCTCCTGCTAGTTGACTAATAGAATTAATAATTGTA AAAAGCACTCTA
 AAGCCACATGCCTTATGAAGTCAATGCTGGGTATGATTTTACAAATATGGTCCGGAAAAA
 GAACCCCTCTGAGAAACGTTGCAAGTGAAGGCGAGGGCCAGATCCTGGAGCCTATAGG
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 GAAGTCTCCGCACAGAGCAGAGGCAGATGACCCTCAAGAATGGCCTGCACCCTCTCAGGG
 GACTCACTGGAGACACAGGAAGATCAGTAGATGTCACCTAAGCTACANGAGCAACAGGGC
 TAGCACAGAGTGGTCAAGCCTATTGTCAAGGTTNGAGCCAGTTTCAGTGGCCTCAAAAA
 CC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014112 unedited
 GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAAAATATATACATT
 TAATTAATGAGCTGTATCTGCATTGGATCATAATAGATTATGTGCACATGTGCAATT
 ATAAACATAATGTGCTACCACAGGCTTCAACAAAGAGCTGTTAAAGATACTTTTTCCCT
 TCTCATTAAATATTACCTTAGAAAAGAAATCCCATGCTTGTATATAAAAAATCTACCTTCA
 CTA AACAGAACAGTTTGAACAGAACATCACTATCTTAAAGTTGATTA AAAAAACTCT
 CAATATGTCATGTAGAGAGAATTGGGCATACTTTTTCTTTTGA ACTACAGAGTTATCA
 ATTAGAGCTCTGTCTTTTCTCATATACTTGGAGTCATGTAGTGTCTCTCTCAATCCACA
 ACGTTCTGAGATGGGTTGGCTTTTATGATTTTTCTATCCAAACAACAGAATGAATACA
 GAGGTGAGTGATGAGAGAAAGACTGAGAAAAGGAAGAATGAGAACGCATGAGCTGGTCTCT
 GGCCTAAAGTTTATCCAAAGCTCAATTTAGAATATAGACAAATAATTTTAAAAATATTTT
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 TTTCAAGAGAGATAATTCCTAAATCATCATGAAATTCCTCATTAAAAAAGTTCCGTACC
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 AATAATTTAATATTTATTTTTGAGAGAGGGAATAAAGGCTTTTAAATATGTCAAAAAAGG
 AGAGGTTAAAGGTATAATAAAATTTTGTTTTTTCAAAGCCACCTTTTTTCCACCCAT
 ATGTTTATTTGAAGCCAAATGAATTAACATTTCTCTCACGAGTTGGATAAAATCATCG
 GTACCTTCCAAAATCCCTTAAGAGGCGCCTCAATTCGAAGGGATGTTTCCCGCGCC
 CCCCTG

Restriction Sites:

NotI-NotI

ACCN:

NM_014112

Insert Size:

7000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_014112.1](#), [NP_054831.1](#)

RefSeq Size: 10011 bp

RefSeq ORF: 3846 bp

Locus ID: 7227

UniProt ID: [Q9UHF7](#)

Cytogenetics: 8q23.3

Domains: GATA, zf-C2H2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a transcription factor that represses GATA-regulated genes and binds to a dynein light chain protein. Binding of the encoded protein to the dynein light chain protein affects binding to GATA consensus sequences and suppresses its transcriptional activity. Defects in this gene are a cause of tricho-rhino-phalangeal syndrome (TRPS) types I-III. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.