

Product datasheet for **RC240097**

TRPS1 (NM_001282903) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRPS1 (NM_001282903) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TRPS1
Synonyms: GC79; LGCR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC240097 representing NM_001282903
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGAAGTCAATGCTGGATATGGTCCGAAAAAGAACCCCTCTGAGAAACGTTGCAAGTGAAGGCGAGG
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CAAAGGCTACAGAGGAAACAGGGCAAGCACAGAGTGGTCAAGCCAATTGTCAAGGTTTGAGCCCAGTTTC
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AGGACTTCTCCAGCAAGGGAGCCGAGGATAAATATGGTAACGAGCTATAATTGTCAGTTCTGTGACTTCCG
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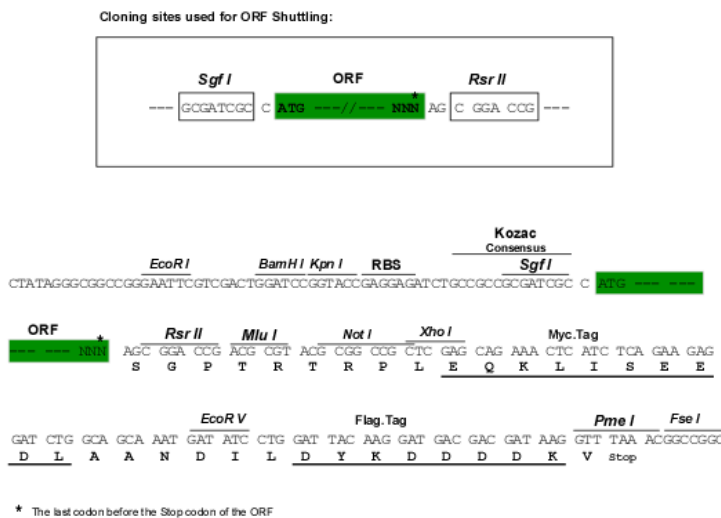
Protein Sequence: >RC240097 representing NM_001282903
 Red=Cloning site Green=Tags(s)

MKSM LDMVRKKNPPLRN VASEGEGQILEPIGTESKVS GKNKEFSADQMS ENT DQSDAAELNHKEEHLHV
 QDPSSSSKKDLKSAVLSEKAGFNYESPSKGGNFPSFPHDEVTDRNMLAFSSPAAGGVCEPLKSPQRAEAD
 DPQDMACTPSGDSLETKE DQKMSPKATEETGQAQSGQANCQGLSPVSVASKNPQVPSDGGVRLNKSKTDL
 LVNDNPDPA LSP ELQDFKCNICGYGYGNDPTDLIKHFRKYHLGLHNRTRQDAELDSKILALHNMVQFS
 HSKDFQKVNRSVFSGLVLDINSSRPVLLNGTYDVQVTSGGTFIGIGRKT PDCQGN TKYFRCKFCNF TYMG
 NSSTELEQHFLQTHPNKIKASLPSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKAGDDTPVGYS
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 DLAKSSEGETMTKTDKSSSGAKKDFSSKGAEDNMVTSYNCQCFDFRYSKSHGPDVIVVGP LLRHYYQLH
 NIHKCTIKHCPFCPRGLCSPEKHLGEITYPFACRKSNC SHCALLLLHLSPGAAGSSRVKHQCHQCSFTTP
 DVDVLLFHYESVHESQASDVKQEANHLQSGDQQSVKESKEHSCTKCDFITQVEEEISRHYRRAHS CYC
 RQCSFTAADTQSLLEHFNTVHCQE QDIT TANGEEDGHAISTIKEEPKIDFRVYNLLTPDSKMGE PVSESV
 VKREKLEEKDGLKEK VWTESSSDDL RNVTWRGADILRGSPSYTQASLGLLTPVSGTQEQT KLRDSPNVE
 AAHLARPIYGLAVETKGF LQGAPAGGEGSGALPQQYPASGENKSKDESQ LLLRRRRGSGVFCANCLTTKT
 SLWRKNANGGYVCNACGLYQKLHSTPRPLNI IKQNGEQIIRRRTRKRLNPEALQAEQLNKQQRGSNEEQ
 VNGSPLERRSEDHLTESHQREIPLPSLSKYEAQGS LTKSHAQQPV LVSQTLDIHKRMQPLHIQIKSPQE
 STGDPGNSSSVSEGKSSERGSPIEKYMRPAKHPNYSPPGSP IEKYQYPLFGLPFVHNDFQSEADWLRFW
 SKYKLSVPGNPHYL SHVPGLPNPCQNYVPYPTFNLP PHS AVGSDNDIPLDLAIKHSRPGPTANGASKEK
 TKAPPNVKNEGPLNVVKTEK VDRSTQDELSTKCVHCGI VFLDEVMYALHMSCHGDSGPFQCSICQHLCTD
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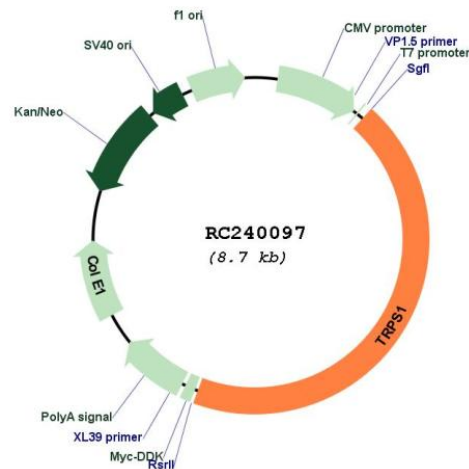
SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282903

ORF Size: 3861 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_001282903.3](#)

RefSeq Size: 10003 bp

RefSeq ORF: 3864 bp

Locus ID: 7227

UniProt ID: [Q9UHF7](#)

Cytogenetics: 8q23.3

Protein Families: Druggable Genome, Transcription Factors

MW: 142.7 kDa

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]