

Product datasheet for RC200322

TSC22 domain family, member 4 (TSC22D4) (NM_030935) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSC22 domain family, member 4 (TSC22D4) (NM_030935) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TSC22 domain family, member 4
Synonyms:	THG-1; THG1; TILZ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200322 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGGGCAAGAAGAAGAGTAGTTTCCAATCACCAGCGTCACCACGGACTATGAGGGCCCTGGGA
GCCAGGGGCTTCGGATCCCCCTACCCACAGCCCCAACCGGGCCCCGCCCGCTGCCAATGGGGA
GCCAGCCCCGATCCGGGGGCAAGGGCACCCCCGGAATGGCTCCCCACCCTGGGGCCCTTCCTCC
CGTTCCGGGTGGTGAAGCTGCCCCACGGCCTGGGAGAGCCTTATCGCCCGGTTCGCTGGACGTGTGTGG
ATGTTTATGAGCGAGACCTGGAGCCCCACAGCTTCGGCGGACTCCTGGAGGGAATTCGAGGGCCCTCAGG
GGGCGCCGGGGCAGATCTTTGGATTCCAGTTGGAGCTGGCCAGCCTCGGCCTGGGCGCCCCACCCCA
CCGTACGGCCTGTCTCAGGGCCCCACCTCCTGGCTCCGTCCACCCCCACCTCTCCTGGACCTCAGGCC
GCTCCTCACTGGGGGACTGGGCCAGCTGGTGGTGCCAGCAAAGCCAAGGCAGAGAAACCCCACTGTG
GGCCTCCTACCCAGCAGCGCCCCCAGAGCCTGAGACCGGTGAGAGTGCGGGCACATCCCGGGTGC
ACGCCCCTGCCCTCTCTGAGGGTGAAGCGGAGGCTGGGGCTCAGGGGCCAGGACCCCTCACTGTCCC
GGAGGAAAGCTGTAGACATGCGGCTGCGGATGGAGTTGGTGCTCCAGAAGAGATGGGGCAGGTGCC
ACTTGACTCTCGCCCCAGCTCCCCGGCCCTCTACTTACCCACGATGCCAGCCTGGTTCAAAATCTCCA
GACCCCTTCGGAGCAGTAGCAGCTCAGAAGTTACGCTGGCCCACTCCATGTTGGCCATCAGTGGTCACC
TAGACAGCAGCAGATGATAGTGGCTCCGGAAGCCTGGTTGGCATTGACAACAAAATCGAGCAAGCCATGGA
CTTGTTGAAGTCCACCTCATGTTTGGGTCCGGGAGGAGGTGGAGGTGCTGAAGGAGCAGATCCGGGAA
CTGGCGGAGCGGAACGCTGCGCTGGAGCAGGAGAATGGGCTGCTGCGCGCCCTGGCCAGCCGGAGCAGC
TGGCTCAGCTGCCCTCCTCGGGGTCCCACGGCTTGGGCCCTGCGCCAATGGGCCCTCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC200322 protein sequence
Red=Cloning site Green=Tags(s)

MSGGKKKSSFQITSVTTDYEGPGSPGASDPPTQPPTGPPRLPNGEPPDPGGKGTPRNGSPPPGAPSS
 RFRVVKLPHGLGEPYRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGGAGGRSLDSRLELASLGLGAPTP
 PSGLSQGPTSWLRPPPTSPGPQARSFTGGLGQLVVPKAKAEKPPLSASSPQQRPPPETGESAGTSRAA
 TPLPSLRVEAEAGGSGARTPPLSRRKAVDMRLRMELGAPEEMGQVPPLDLRPSSPALYFTHDASLVHKSP
 DPFGAVAAQKFLAHSMLAISGHLDSDDSGSGSLVIGIDNKIEQAMDLVKSHLMFVREEVEVLKEQIRE
 LAERNAALEQENGLLRALASPEQLAQLPSSGVPRLGPPAPNGPSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

Chromatograms: https://cdn.origene.com/chromatograms/mk6672_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_030935

ORF Size: 1185 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_030935.3](#), [NP_112197.1](#)

RefSeq Size: 2399 bp

RefSeq ORF: 1188 bp

Locus ID: 81628

UniProt ID: [Q9Y3Q8](#)

Cytogenetics: 7q22.1

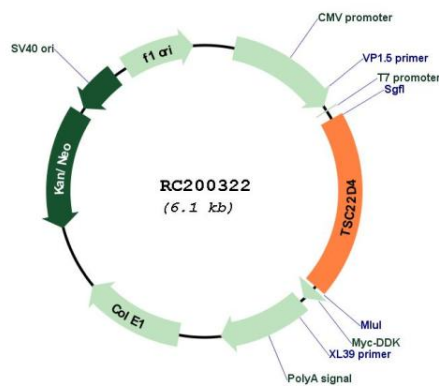
Domains: TSC22

Protein Families: Transcription Factors

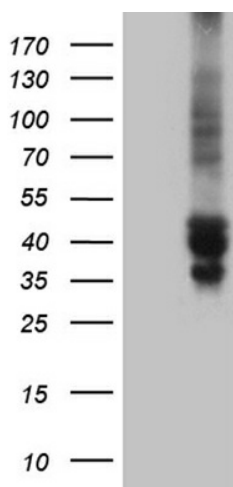
MW: 41 kDa

Gene Summary: TSC22D4 is a member of the TSC22 domain family of leucine zipper transcriptional regulators (see TSC22D3; MIM 300506) (Kester et al., 1999 [PubMed 10488076]; Fiorenza et al., 2001 [PubMed 11707329]).[supplied by OMIM, Mar 2008]

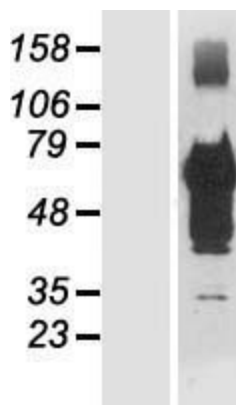
Product images:



Circular map for RC200322



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TSC22D4 (Cat# RC200322, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TSC2 (Cat# [TA811733]). Positive lysates [LY410651] (100ug) and [LC410651] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY410651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).