

## Product datasheet for **RC223210**

### TSC22D1 (NM\_006022) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSC22D1 (NM\_006022) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TSC22D1  
**Synonyms:** Ptg-2; TGFB114; TSC22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC223210 representing NM\_006022  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAATCCCAATGGTGTAGACCAGTGGCGATGGATCTAGGAGTTTACCAACTGAGACATTTTCAATTT  
CTTTCTTGTCATCCTTGCTGGGGACTGAAAACGCTTCTGTGAGACTTGATAATAGCTCCTCTGGTCAAG  
TGTGGTAGCTATTGACAACAAAATCGAGCAAGCTATGGATCTAGTAAAAGCCATTTGATGTATGCGGTC  
AGAGAAGAAGTGGAGTCTCAAAGAGCAAATCAAAGAATAATAGAGAAAAATCCAGCTGGAGCAGG  
AGAACAATCTGCTGAAGACACTGGCCAGTCTGAGCAGCTTGCCAGTTTCAGGCCAGCTGCAGACTGG  
CTCCCCCCTGCCACCACCCAGCCACAGGGCACACAGCCCCCGCCAGCCAGCATCGCAGGGCTCA  
GGACCAACCGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC223210 representing NM\_006022  
Red=Cloning site Green=Tags(s)  
MKSQWCRPVAMD LGVYQLRHFSISFLSLLGTENASVRLDNSSSGASVVAIDNKIEQAMD LVKSHLMYAV  
REEVEVLKEQIKELIEKNSQLEQENLLKTLASPEQLAQFQAQLQTGSPATTQPQGTTPPAQPASQGS  
GPTA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

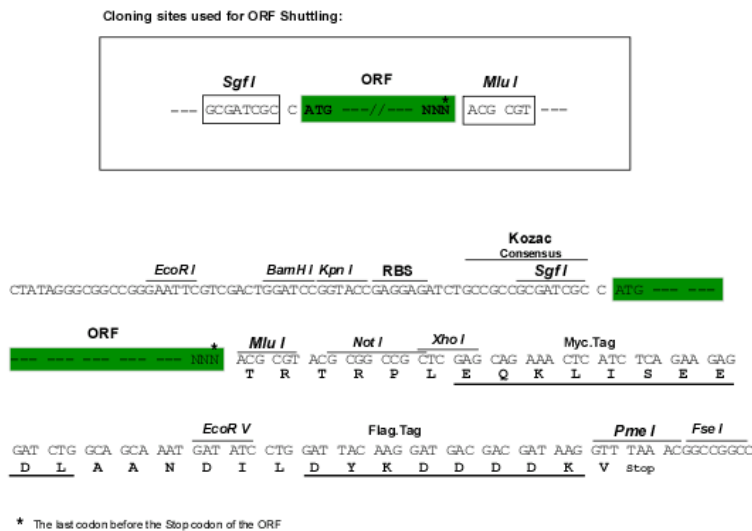
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6242\\_h06.zip](https://cdn.origene.com/chromatograms/mk6242_h06.zip)



[View online >](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_006022

ORF Size: 432 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\\_006022.4](#)

RefSeq Size: 1791 bp

RefSeq ORF: 435 bp

Locus ID: 8848

UniProt ID: [Q15714](#)

Cytogenetics: 13q14.11

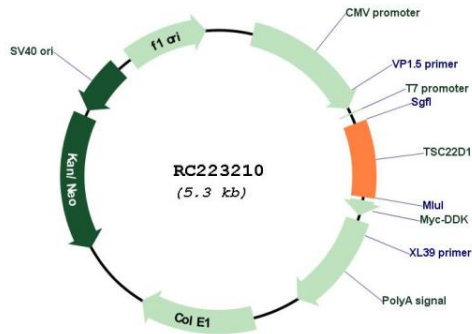
Domains: TSC22

Protein Families: Transcription Factors

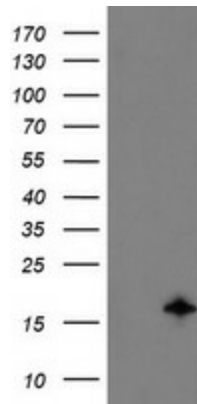
MW: 15.5 kDa

**Gene Summary:** This gene encodes a member of the TSC22 domain family of leucine zipper transcription factors. The encoded protein is stimulated by transforming growth factor beta, and regulates the transcription of multiple genes including C-type natriuretic peptide. The encoded protein may play a critical role in tumor suppression through the induction of cancer cell apoptosis, and a single nucleotide polymorphism in the promoter of this gene has been associated with diabetic nephropathy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

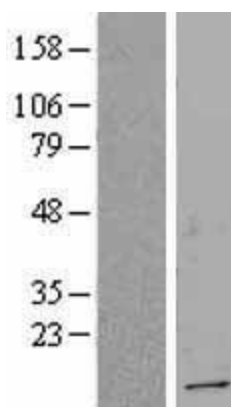
**Product images:**



Circular map for RC223210



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TSC22D1 (Cat# RC223210, 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-TSC22D1 (Cat# [TA505062]). Positive lysates [LY416882] (100ug) and [LC416882] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416882]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223210 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).