

## Product datasheet for **RG224087**

### TSC22D1 (NM\_183422) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TSC22D1 (NM\_183422) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TSC22D1  
**Synonyms:** Ptg-2; TGFB114; TSC22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224087 representing NM\_183422  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCACCAGCCGCTGAGTCCACCGCCGCGCCGCCGCTGCAGACATTAGCGCTAGGAAGATGGCGC  
 ACCCGGCAATGTTCCCTCGAAGGGCAGCGGTAGTGGCAGCGCCTCTGCTCTCAATGCAGCAGGTACCGG  
 CGTCGGTAGTAATGCCACATCTCCGAGGATTTCCGCTCCGTCGCTGCTTCCAGCCGCCCCCTGCA  
 GCATCTTCTACGTCGGGACCACAGCCTCCGCTCCACAAAGCCTGAACCTCCTTTCGAGGCTCAGTCG  
 AGGCACAGCCTCTTGCGCCAGGCGGAATCAAATGAAAAAGAAAAGTGGCTTCCAGATAACTAGCGTTAC  
 TCCTGCTCAGATCTCCGCTAGTATCAGCTCTAACACAGTATAGCAGAGGACACTGAGAGCTATGATGAT  
 CTGGATGAATCTCACACGGAAGATCTCTCTTCTCGGAGATCCTTGATGTGTCACCTTCCAGGGCTACTG  
 ACTTAGGGGAGCCGAACGCAGCTCCTCAGAAGAGACCCTAAATAACTTCCAGGAAGCCGAGACACCTGG  
 GGCAGTCTCTCCAACCGCCACCTTCTCAGCCTCATTGCTCACCTTCCACAACAGAATGTTGTG  
 ATCAATGGGAATGCTCATCCACACCACCTCCATCACCACCATCAGATTATCATGGGCACCACCTCCAAC  
 ATGGTCACCACCATCCATCTCATGTTGCTGTGGCCAGTGCATCCATTACTGGTGGCCACCCTCAAGCCC  
 AGTATCTAGAAAACCTCTCAACTGGAAGCTGACAGTATCACACCAGTTGCACCAACTTCTGCTGTA  
 TCATCCAGTGGTTCACCTGCATCTGTAATGACTAATATGCGTGCCTCAAGTACTACAGGTGAATAGGTA  
 TAAATTCTGTTACTGGCACTAGTACAGTAAATAATGTTAACTTACTGCTGTGGGTAGTTTTAATCCTAA  
 TGTGACAAGCAGCATGCTTGGTAATGTTAATAAGTACAAGCAATATTCTAGTGTGCTGGTGTGAGT  
 GTTGGGCTGGAGTTACCAGTGGTGTAAATGTGAATATCTTGAGTGGCATGGGCAATGGTACTATTTCTT  
 CCTCTGCTGCTGTAGCAGTGTTCCTAATGCAGCTGCAGGGATGACTGGGGGATCGGTTTCAAGTCAGCA  
 GCAACAACCAACAGTTAACACTTCGAGGTTGAGAGTTGTGAAGTTAGATTCTAGTTCTGAGCCCTTAA  
 AAAGGTAGATGGACTTGCAGTGTCTATGAAAAAGAAAATGCTGTACCTGCTACAGAAGGTGTGCTGA  
 TAAATAAAGTGGTGGAGACTGTAAGCAAAATCCGATAGAAGTACTTCTGAAAGGGAGAGCACTAGTGG  
 GAGTTCAGTGTGAGCAGTAGTGTGACGACACTGAGTACTATACAGAGAGTGTGGGAAGTGGAGAGATGGGA



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**Cloning Scheme:**


**ACCN:** NM\_183422

**ORF Size:** 3219 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](mailto: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](#)

**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\\_183422.4](#)

**RefSeq Size:** 6196 bp

**RefSeq ORF:** 3222 bp

**Locus ID:** 8848

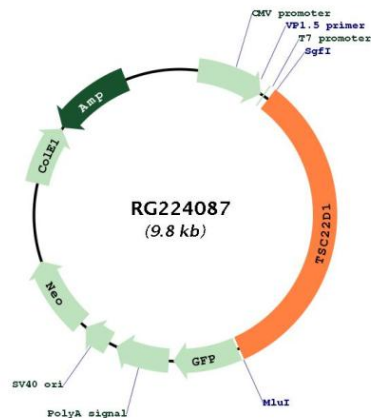
**UniProt ID:** [Q15714](#)

**Cytogenetics:** 13q14.11

**Protein Families:** Transcription Factors

**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 RG224087