

## Product datasheet for **RG234458**

### **TSC22D1 (NM\_001243799) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TSC22D1 (NM_001243799) 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)



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**ORF Nucleotide Sequence:**

>RG234458 representing NM\_001243799  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACCAGCGCCTGAGTCCACCGCCGCGCCGCCGCTGCAGACATTAGCGCTAGGAAGATGGCGC  
 ACCCGGCAATGTTCCCTCGAAGGGGACGCGGTAGTGGCAGCGCCTCTGCTCTCAATGCAGCAGGTACCGG  
 CGTCGGTAGTAATGCCACATCTTCCGAGGATTTCCGCCTCCGTCGCTTTCAGCCGCCGCCCTTGCA  
 GCATCTTCTACGTCGGGACCACAGCCTCCGCCTCCACAAAGCCTGAACCTCCTTTCGAGGCTCAGCTGC  
 AGGCACAGCCTCTTGGCCAGGCGGAACCTCAAATGAAAAAAGAAAGTGGCTTCCAGATAACTAGCGTTAC  
 TCCTGCTCAGATCTCCGCTAGTATCAGCTCTAACACAGTATAGCAGAGGACACTGAGAGCTATGATGAT  
 CTGGATGAATCTCACACGGAAGATCTCTTCTTCGGAGATCCTTGATGTGCACCTTCCAGGGCTACTG  
 ACTTAGGGGAGCCGAACGCAGCTCCTCAGAAGAGACCCTAAATAACTTCCAGGAAGCCGAGACACCTGG  
 GGCAGTCTCTCCAACCGCCACCTTCTCAGCCTCATTTGCCTCACCTTCCACAACAGAATGTTGTG  
 ATCAATGGGAATGCTCATCCACACCACCTCCATACCACCATCAGATTATCATGGGCACCACCTCCAAC  
 ATGGTCACCACCATCCATCTCATGTTGCTGGCCAGTGCATCCATTACTGGTGGCCACCTCAAGCCC  
 AGTATCTAGAAACTCTTACAACCTGGAAGCTCTGACAGTATCACACCAGTTGCACCAACTTCTGCTGTA  
 TCATCCAGTGGTTCACCTGCATCTGTAATGACTAATATGCGTGTCCAACTACTACAGGTGGAATAGGTA  
 TAAATTCTGTTACTGGCACTAGTACAGTAAATAATGTTAACATTACTGCTGTGGGTAGTTTTAATCCTAA  
 TGTGACAAGCAGCATGCTTGGTAATGTTAATAAGTACAAGCAATTCCTAGTGTGCTGGTGTGAGT  
 GTTGGGCTGGAGTTACCAGTGGTGAATGTTAATAAGTACAAGCAATTCCTAGTGTGCTGGTGTGAGT  
 CCTCTGCTGCTGTTAGCAGTGTTCCTAATGCAGCTGCAGGGATGACTGGGGGATCGGTTTCAAGTCAGCA  
 GCAACAACCAACAGTTAACACTTCGAGGTTTCAGAGTTGTGAAGTTAGATTCTAGTTCTGAGCCCTTAAA  
 AAAGGTAGATGGACTTGCAGTGTCTATGAAAAAGAAATGCTGTACCTGCTACAGAAGTGTGCTGA  
 TAAATAAAGTGGTGGAGACTGTAAGCAAAAATCCGATAGAAGTACTTCTGAAAGGGAGAGCACTAGTGG  
 GAGTTCAGTGAGCAGTAGTGTGCAGCAGTACTGACTACTACAGAGAGTGTGGGAAGTGGAGAGATGGGA  
 GCCCTACTGTGGTGGTGCAGCAGCAGCAGCAACAACAACAACAGCAACAACAGCTCTCCAAG  
 GTGTGACCCTCCAACAGATGGATTTTGGTAGCAGTGGTCCACAGAGTATCCAGCAGTTAGTATACCACA  
 GAGTATTTCTCAGTCACAGATCTACAAGTACAATTACAGTCTCAAGAACTGAGCTATCTTACCATGAAG  
 GTTGTGTTTCTTATTGTATTTGTGTATG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234458 representing NM\_001243799  
 Red=Cloning site Green=Tags(s)

MHQPPPESTAAAAAADISARKMAHPAMFPRRSGSGSASALNAAGTGVGSNATSSSEDFPPPSLLQPPPPA  
 ASSTSGPQPPPPQSLNLLSQAQLQAQPLAPGGTQMKKKSGFQITSVTPAQISASISSNNSIAEDTESYDD  
 LDESHTEDLSSSEILDVSLSRATDLGEPERSSEETLNNFQEAETPGAVSPNQPHLPQPHLPQPNV  
 INGNAHPHLLHHHHQIHGHHLQHGHHPHSHVAVASASITGGPPSSPVSRLSTTGSSDSITPVAPTSV  
 SSSGSPASVMTNMRAPSTTGGIGINSVTGTSTVNNVNITAVGSFNPVNTSSMLGNVNI STSNIPSAAGVS  
 VGPVTSVGNVNILSGMGNGTISSSAAVSSVPNAAAGMTGGSVSSQQQPTVNTSRFRVVKLDSSSEPFK  
 KGRWTCTEFYEKENAVPATEGVLINKVVETVKQNP IEVTSERESTSGSSVSSSVTL SHYTE SVSGGEMG  
 APTVVVQQQQQQQQQPPALQGVTLQQMDFGSTGPQSIPAVSIPQISISQSQISQVQLQSQELSYLTMK  
 VVLLIIVYLCM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001243799

**ORF Size:** 1710 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\\_001243799.1](#), [NP\\_001230728.1](#)

**RefSeq Size:** 4026 bp

**RefSeq ORF:** 1713 bp

**Locus ID:** 8848

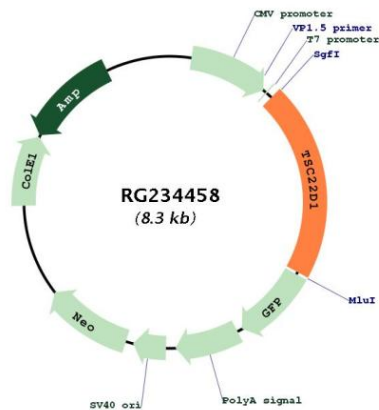
**UniProt ID:** [Q15714](#)

**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 RG234458