

Product datasheet for **SC116360**

TSC22D1 (NM_006022) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSC22D1 (NM_006022) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSC22D1
Synonyms:	Ptg-2; TGFB114; TSC22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116360 sequence for NM_006022 edited (data generated by NextGen Sequencing)

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ATGAAATCCCAATGGTGTAGACCAGTGGCGATGGATCTAGGAGTTTACCAACTGAGACAT
TTTTCAATTTCTTTCTTGTGCATCCTTGCTGGGGACTGAAAACGCTTCTGTGAGACTTGAT
AATAGCTCCTCTGGTGAAGTGTGGTAGCTATTGACAACAAAATCGAGCAAGCTATGGAT
CTAGTGAAAAGCCATTTGATGTATGCGGTGAGAGAAGAAGTGGAGGTCCTCAAAGAGCAA
ATCAAAGAACTAATAGAGAAAAATCCCAGCTGGAGCAGGAGAACAATCTGCTGAAGACA
CTGGCCAGTCCTGAGCAGCTTGCCAGTTTCAGGCCAGCTGCAGACTGGCTCCCCCCT
GCCACCACCCAGCCACAGGGCACCACAGCCCCCGCCAGCCAGCATCGCAGGGCTCA
GGACCAACCGCATAG
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Clone variation with respect to NM_006022.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006022 unedited</p> <pre>GGCGGCCCGCGATTTCGGCACGAGGGGCTTATACAAGGCTGCTGGTGTCCCTCTTTTTTT CCACGAGGGTGTTTTTGGCTGCAATTGCATGAAATCCCAATGGTGTAGACCAGTGGCGAT GGATCTAGGAGTTACCAACTGAGACATTTTTCAATTTCTTTCTGTGCATCCTTGCTGGG GACTGAAAACGCTTCTGTGAGACTTGATAATAGCTCCTCTGGTGAAGTGTGGTAGCTAT TGACAACAAAAATCGAGCAAGCTATGGATCTAGTAAAAAGCCATTTGATGTATGCGGTCAG AGAAGAAGTGGAGTCCCTCAAAGAGCAAATCAAAGAATTAATAGAGAAAAATCCAGCT GGAGCAGGAGAACAATCTGCTGAAGACACTGGCCAGTCCCTGAGCAGCTTGCCAGTTTCA GGCCAGCTGCAGACTGGCTCCCCCCTGCCACCACCCAGCCACAGGGCACACAGCC CCCCGCCAGCCAGCATCGCAGGGCTCAGGACCAACCGCATAGCTGCCTATGCCCCCGCA GAACTGGTGTGCTGCTGTAAGTGAACAGACGGAGAAGATGTGCTAGGGAGAATCTGCCT CCACAGTCACCCATTTTCTGCTCGCTGCGAAAGAGACGTGAGACTGACATATGCCATTA TCTTTTTCCAGTATTAACACTCATATGCTTATGGCTTGAGAAATTTCTTAGTGGGT GAATTAAGGTTAATCCGAGAATAGCATGGATTACCGGGACCTCATGCAGCTTGGCAGAAT CTGAGAAATGGTTAAATCTGCTCAGGAGCTGNGTGGCCTTTCATCCCTTCGGNTTCTTA CCCTACTTCCAAGTTCCTCTCTGCTGGCTTNAAGGTCTAATGGGGGTTGTGAGCG ATGGGAGCTCTACTGGACTNGCCTTTTTCTTTCTCCCCAGGAGACTGAAGGGAGGTA AA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006022 unedited</p> <pre>NNTTTTAGCTATGGACNCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTAA CATTTATATGCTTTATTGAAAGTTGACAAGTGAACAGTTAAATACAGTGACACCTTACA ATTGTGTAGAGAACATGCACAGAAACATATGCATATAACTACTATACAGGTGATATGCAG AAACCCCTACTGGGAAATCCATTTTATTAGTTAGAACTGAGCATTTTTCAAAGTATTCAA CCAGCTCAATTGAAAGACTTCAGTGAACAAGGATTTACTTCAGCGTATTTCAGCAGCTAGA TTTCAGATTACACAAAGTGAAGTAACTGTGCCAAATTTCTAAAATTTCTTTAGGTGTGGTT TTTGTCTAGTAGCAGTTTTTATGTAGATCTATATAAAAAGTCCACACCTCCTCAGACAG CCAATGAAACAACTAAATTTCAATCTGTACAACCTAAATAGTAGTTACAGTCCTCTATTG TACAAAATAGTTACACTACATACACAAAATATAAATAAGCAAAACAACCTTCATGGTAAG ATAGCCTAGTCCCAGCTACCTGTCACCATTTTGTCACTCTCATAGTTNTGTGTATCCA TTGTTTGAAGAAGAAAGAGGCACAGTACTATTGTTTTTTATGAATTTTGGTGACAGTGC AAATTTGTACAGTGAACCTCTGTTCCCCCTCATTTTAGTCTTTTTACCCTCCTTTCAAAGTC CTCCTGGGGGAGGAGAGANAGAAGCCANTCCANTGAGGAGCTCCATCGCTCCACACCC CATGGTAGACACCTAGCGCACAGCAGAGAGAGAACCTTTGAAGTGAAGGGTAGGGAGCCG NAGGGATGAAAGCCACAGCTCCTGGACATGATTAACCTTTCTCAAAAATCTGGCAAGC TGAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006022
Insert Size:	1610 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_006022.2](#), [NP_006013.1](#)

RefSeq Size: 1791 bp

RefSeq ORF: 435 bp

Locus ID: 8848

UniProt ID: [Q15714](#)

Cytogenetics: 13q14.11

Domains: TSC22

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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a large portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2, also known as TSC22D1.2) is significantly shorter and has a distinct N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.