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Product datasheet for SC107708

TSC22D1 (NM_183422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSC22D1 (NM_183422) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSC22D1
Synonyms:	Ptg-2; TGFB1I4; TSC22
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_183422, the custom clone sequence may differ by one or more nucleotides

ATGCACCAGCCGCCTGAGTCCACCGCCGCGGCCGCCGCCGCTGCAGACATTAGCGCTAGGAAGATGGCGC
ACCCGGCAATGTTCCCTCGAAGGGGCAGCGGTAGTGGCAGCGCCTCTGCTCTCAATGCAGCAGGTACCGG
CGTCGGTAGTAATGCCACATCTTCCGAGGATTTTCCGCCTCCGTCGCTGCTTCAGCCGCCGCCCCCTGCA
GCATCTTCTACGTCGGGACCACAGCCTCCGCCTCCACAAAGCCTGAACCTCCTTTCGCAGGCTCAGCTGC
AGGCACAGCCTCTTGCGCCAGGCGGAACTCAAATGAAAAAGAAAAGTGGCTTCCAGATAACTAGCGTTAC
TCCTGCTCAGATCTCCGCTAGTATCAGCTCTAACAACAGTATAGCAGAGGACACTGAGAGCTATGATGAT
CTGGATGAATCTCACACGGAAGATCTCTCTTCTTCGGAGATCCTTGATGTGTCACTTTCCAGGGCTACTG
ACTTAGGGGAGCCCGAACGCAGCTCCTCAGAAGAGACCCTAAATAACTTCCAGGAAGCCGAGACACCTGG
GGCAGTCTCTCCCAACCAGCCCCACCTTCCTCAGCCTCATTTGCCTCACCTTCCACAACAGAATGTTGTG
ATCAATGGGAATGCTCATCCACACCACCTCCATCACCACCATCAGATTCATCATGGGCACCACCTCCAAC
ATGGTCACCACCATCCATCTCATGTTGCTGTGGCCAGTGCATCCATTACTGGTGGGCCACCCTCAAGCCC
AGTATCTAGAAAACTCTCTACAACTGGAAGCTCTGACAGTATCACACCAGTTGCACCAACTTCTGCTGTA
TCATCCAGTGGTTCACCTGCATCTGTAATGACTAATATGCGTGCTCCAAGTACTACAGGTGGAATAGGTA
TAAATTCTGTTACTGGCACTAGTACAGTAAATAATGTTAACATTACTGCTGTGGGTAGTTTTAATCCTAA
TGTGACAAGCAGCATGCTTGGTAATGTTAATATAAGTACAAGCAATATTCCTAGTGCTGCTGGTGTGAGT
GTTGGGCCTGGAGTTACCAGTGGTGTTAATGTGAATATCTTGAGTGGCATGGGCAATGGTACTATTTCTT
CCTCTGCTGCTGTTAGCAGTGTTCCTAATGCAGCTGCAGGGATGACTGGGGGATCGGTTTCAAGTCAGCA
GCAACAACCAACAGTTAACACTTCGAGGTTCAGAGTTGTGAAGTTAGATTCTAGTTCTGAGCCCTTTAAA
AAAGGTAGATGGACTTGCACTGAGTTCTATGAAAAAGAAAATGCTGTACCTGCTACAGAAGGTGTGCTGA
TAAATAAAGTGGTGGAGACTGTAAAGCAAAATCCGATAGAAGTGACTTCTGAAAGGGAGAGCACTAGTGG
GAGTTCAGTGAGCAGTAGTGTCAGCACACTGAGTCACTATACAGAGAGTGTGGGAAGTGGAGAGATGGGA
GCCCCTACTGTGGTGGTGCAGCAGCAGCAGCAGCAACAACAACAACAACAGCAACAACCAGCTCTCCAAG
GTGTGACCCTCCAACAGATGGATTTTGGTAGCACTGGTCCACAGAGTATTCCAGCAGTTAGTATACCACA
GAGTATTTCTCAGTCACAGATCTCACAAGTACAATTACAGTCTCAAGAACTGAGCTATCAGCAAAAGCAA

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GGTCTTCAGCCAGTACCTCTGCAAGCCACTATGAGTGCTGCAACTGGTATCCAGCCATCGCCTGTAAATG
TGGTTGGTGTAACTTCAGCTTTAGGTCAGCAGCCTTCCATTTCCAGTTTGGCTCAACCCCAGCTACCATA
TTCTCAGGCGGCTCCTCCAGTGCAAACTCCCCTTCCAGGGGCACCACCACCCCAACAGTTACAGTATGGA
CAACAGCAACCAATGGTTTCTACACAGATGGCCCCAGGCCATGTCAAATCAGTGACTCAAAATCCTGCTT
CAGAGTATGTACAACAGCAGCCAATTCTTCAAACAGCAATGTCCTCCGGACAGCCCAGTTCTGCAGGAGT
AGGAGCAGGAACAACAGTGATTCCTGTGGCTCAGCCACAGGGTATCCAGCTGCCAGTGCAGCCCACAGCA
GTCCCAGCACAACCTGCAGGGGCATCTGTCCAGCCTGTTGGCCAGGCTCCGGCAGCAGTGTCTGCTGTAC
CTACTGGCAGTCAGATTGCAAATATTGGTCAGCAAGCAAACATACCTACTGCAGTGCAGCAGCCCTCTAC
CCAGGTTCCACCTTCAGTTATTCAGCAGGGTGCTCCTCCATCTTCGCAAGTGGTTCCACCTGCTCAAACT
GGGATTATTCATCAGGGAGTTCAAACTAGTGCTCCAAGCCTTCCTCAACAATTGGTTATTGCATCCCAAA
GTTCCTTGTTAACTGTGCCTCCCCAGCCACAAGGAGTAGAACCAGTAGCTCAAGGAATTGTTTCACAGCA
GTTGCCTGCAGTTAGTTCTTTGCCCTCTGCTAGTAGTATTTCTGTTACAAGTCAGGTTAGTTCAACTGGT
CCTTCTGGAATGCCTTCTGCCCCAACAAACTTGGTTCCACCACAAAATATAGCACAAACCCCTGCTACCC
AAAATGGTAATTTGGTTCAAAGTGTTAGTCAACCTCCCTTGATAGCAACTAATACAAATTTGCCTTTGGC
ACAACAGATACCACTAAGTTCTACCCAGTTCTCCGCACAATCATTAGCTCAGGCAATTGGAAGCCAAATT
GAAGATGCCAGGCGTGCAGCGGAGCCCTCCTTAGTTGGCTTACCTCAGACTATCAGTGGTGACAGTGGGG
GAATGTCAGCAGTTTCAGATGGGAGTAGCAGCAGCCTAGCAGCCTCTGCTTCTCTTTTCCCGTTGAAGGT
GCTACCGCTGACGACACCCCTGGTGGATGGCGAGGATGAGAGCTCCTCTGGTGCAAGTGTGGTAGCTATT
GACAACAAAATCGAGCAAGCTATGGATCTAGTGAAAAGCCATTTGATGTATGCGGTCAGAGAAGAAGTGG
AGGTCCTCAAAGAGCAAATCAAAGAACTAATAGAGAAAAATTCCCAGCTGGAGCAGGAGAACAATCTGCT
GAAGACACTGGCCAGTCCTGAGCAGCTTGCCCAGTTTCAGGCCCAGCTGCAGACTGGCTCCCCCCCTGCC
ACCACCCAGCCACAGGGCACCACACAGCCCCCCGCCCAGCCAGCATCGCAGGGCTCAGGACCAACCGCAT
AG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_183422 unedited
ATTTGTATACGACTCACTATAGGGCGGCCGCGATTCGGCACGAGGCCTTCGGGTCCCCGG
CCGCCCTGTTCACCCTCGTTCATCCTCCTTTCCGAAGCTCGCTCTCGAAGGCAGGAGCGA
CCGGCGCCTTTGGCTGAGGAGGAGGAGAAGGAGGAATCGCGCCAGGCGGAGCGTCAGGTC
CCGTTTTCCTCTCCGGCGTCTCCAATACAAAGATTACGGTGCAGAAGGAAATTGCACTCG
TCTCCTCCGCGCCCCCGGTACCCAACACAATGCACCAGCCGCCTGAGTCCACCGCCGCGG
CCGCCGCCGCTGCAGACATTAGCGCTAGGAAGATGGCGCACCCGGCAATGTTCCCTCGAA
GGGGCAGCGGTAGTGGCAGCGCCTCTGCTCTCAATGCAGCAGGTACCGGCGTCGGTAGTA
ATGCCACATCTTCCGAGGATTTTCCGCCTCCGTCGCTGCTTCAGCCGCCGCCCCCTGCAG
CATCTTCTACGTCGGGACCACAGCCTCCGCCTCCACAAAGCCTGAACCTCCTTTCGCAGG
CTCAGCTGCAGGCACAGCCTCTTGCGCCAGGCGGAACTCAAATGAAAAAGAAAAGTGGCT
TCCAGATAACTAGCGTTACTCCTGCTCAGATCTCCGCTAGTATCAGCTCTAACAACAGTA
TAGCAGAGGACACTGAGAGCTATGATGATCTGGATGAATCTACACGGAAGATCTCTCTTC
TTCGGAGATCCTTGATGTGTCACTTTCCAGGGCTACTGACTTAGGGGAGCCCGAACGCAG
CTCCTCAGAAGAGACCCTAAATAACTTCCAGGAAGCCGAGACCCTGGGGGGCAGTCTCTT
CCAACCAGCCCCACTTTNCTCAGCCTN

Restriction Sites: NotI-NotI

ACCN: NM_183422

Insert Size: 4400 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 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

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_183422.1, NP_904358.1

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as TSC22D1.1). 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.