

Product datasheet for **SC318485**

ZNF537 (TSHZ3) (NM_020856) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF537 (TSHZ3) (NM_020856) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZNF537
Synonyms:	TSH3; ZNF537
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318485 representing NM_020856. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGCCGAGGAGGAAGCAGCAGGCGCCCCGGCGCGCAGCAGCCTATGTTTCCGAAGAGTTAAAGGCTGCT
GCCCTGGTGGACGAAGTTTAGACCCAGAGGAGCATACGGCAGATGGAGAGCCCTCGGCCAAGTACATG
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CACCAGCCCTCCTCGGAGAAGAACAACGGCAGCAGCAGCAGCAGTAGCAGCAGCAGCAGCTGTGGC
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TTGACTGAAAATGACTTAGAAGAGAGTCCCAAGGGGGGCTTGATATCCTCAAATCCTTGAAAAACACA
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TAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_020856
Insert Size:	3246 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_020856.3](#)

RefSeq Size: 5184 bp

RefSeq ORF: 3246 bp

Locus ID: 57616

UniProt ID: [Q63HK5](#)

Cytogenetics: 19q12

Domains: homeobox, zf-C2H2

Protein Families: Transcription Factors

MW: 118.6 kDa

Gene Summary: This gene encodes a zinc-finger transcription factor that regulates smooth muscle cell differentiation in the developing urinary tract. Consistent with this role, mice in which this gene has been inactivated exhibit abnormal gene expression in urinary tract smooth muscle cell precursors and kidney defects including hydronephrosis. The encoded transcription factor comprises a gene silencing complex that inhibits caspase expression. Reduced expression of this gene and consequent caspase upregulation may be correlated with progression of Alzheimer's disease in human patients. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (1) represents the longest transcript and encodes the protein.