

## Product datasheet for **SC101154**

### Teashirt homolog 2 (TSHZ2) (NM\_173485) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Teashirt homolog 2 (TSHZ2) (NM_173485) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | Teashirt homolog 2  |
| Synonyms:                 | C20orf17; OVC10-2; TSH2; ZABC2; ZNF218                      |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                            |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                      |



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_173485, the custom clone sequence may differ by one or more nucleotides

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ATGCCGAGGAGAAAACAGCAGGCACCCAAGCGGGCGGCAGGCTACGCCAGGAGGAACAGCTGAAAGAAG
AGGAGGAAATAAAGAAGAGGAGGAGGAGGAGGACAGCGGTTAGTAGCTCAACTGCAGGGTGGCAATGA
CACAGGGACGACGAGGAGCTAGAAACGGGCCAGAGCAAAAAGGCTGCTTCAGTACCAGAACTCTCCA
GGAAGTCATTTGTCCAATCAGGATGCCGAGAACGAGTCTCTGCTGAGTGACGCCAGTGATCAGGTGTCGG
ACATCAAGAGTGTCTGCCGACAGAGATGCCTCAGACAAGAAAGCACACACTCACGTGAGGCTTCCAACGA
AGCACACAATTGCATGGATAAAATGACCCTGTCTACGCCAACATCCTGTGCGATTCTACTGGTCAGGC
CTGGGCCCTTGGCTTCAAGCTGTCCAATAGTGAGAGGAGGAACTGTGACACCCGAAACGGCAGCAACAAGA
GTGATTTTGTATTGGCACCAAGACGCTCTGTCCAAAAGCCTGCAGCAGAACTTGCCTTCTCGGTCCGTCTC
GAAACCCAGCCTGTTTCAGCTCGGTGCAGTTGTACCGACAGAGCAGCAAGATGTGCGGGACTGTGTTACA
GGGGCCAGCAGATTCCGATGCCGACAGTGCAGCGCGGCTATGACACCCTAGTCGAGCTGACTGTGCACA
TGATGAAACGGGCCACTATCAAGATGACAACCGCAAAAAGGACAAGCTCAGACCCAGCAGCTATTCAAA
GCCCAGGAAAAGGCTTTCCAGGATATGGACAAAAGAGGATGCTCAAAAAGTTCTGAAATGTATGTTTTGT
GGCGACTCCTTTGATTCCCTCCAAGATTTGAGCGTCCACATGATTAACAAAACATTACAAAAAGTGC
CTTTGAAGGAGCCAGTCCCAACCTTCTCGAAAATGGTCAACCCGGCTAAGAAACGCGTTTTTGTATGT
CAATCGGCCGTGTTCCCCGATTCAACCAAGGATCTTTTGCAGATTCTTTTCTTCTCAGAAGAACGCC
AACTTGCAGTTGTCTCCAACAACCGCTATGGTACCAAAATGGAGCCAGCTACACTGGCAGTTTGGAG
CCTGCAAGTCCCAGATCTTAAAGTGCATGGAGTGTGGGAGCTCCCATGACACCTTGACGAGCTCACCAC
CCACATGATGGTACAGGTCACCTTCTCAAGTCAACAGCTCTGCCTCCAAGAAAGGGAAGCAGCTGGTA
TTAGACCCGTTAGCAGTGGAGAAAATGCAGTCGTTGTCTGAGGCCCAACAGTGATTCTCTGGCTCCCA
AGCCATCCAGTAACTCAGCATCAGATTGTACAGCCTCTACAACAGTTAAAGAAAGAGAGTAAAAAAGA
AAGGCCAGAGGAAACAGCAAGGATGAGAAAGTGTGAAAAGCGAGGACTATGAAGATCCTCTACAAAAA
CCTTTAGACCCTACAATCAAATATCAATACCTAAGGGAGGAAGACTTGAAGATGGCTCAAAGGGTGGAG
GGGACATTTTGAATCTTTGAAAATACTGTACCACAGCCATCAACAAAGCCAAAACGGGGCCCCCAG
CTGGAGTGCTACCCAGCATCCACGCAGCCTACCAGTGTCTGAGGGCACCAAGCCGCTTTGCCTATG
GGATCCCAGTACTGCAGATCCGGCCTAATCTACCAACAAGCTGAGGCCATTGCACCAAAGTGGAAAG
TGATGCCACTGGTTTCTATGCCACACACTGGCCCTTACACTCAAGTCAAGAAAGAGTCAAGAACAA
AGATGAAGCGGTGAAGGAGTGTGGAAAGAAAGTCCCCACGAAGAGGCCATCTTTTCAGCCACAGTGAG
GGCGATTCTTCCGCAAAAGTGAACACCTCCAGAAGCCAAAAGACCGAGCTGGGTCCCCTGAAGGAGG
AGGAGAAGCTGATGAAAGAGGGCAGCGAGAAGGAGAAACCCAGCCCCTGGAGCCACATCTGCTTGAG
CAATGGGTGCGCCCTCGCCAACCAAGCCCGGCCCTGCCATGCATCAACCCACTCAGCGCCCTGCAGTCC
GTCCTGAACAATCACTTGGGCAAGCCACGGAGCCCTTGCCTCACCTTCTGCTCCAGCCCAAGTTCAA
GCACAATTTCCATGTTCCACAAGTGAATCTCAATGTCATGGACAAGCCGGTCTTGAGTCTGCCTCCAC
AAGGTGAGCCAGCGTGTCCAGGCGCTACCTGTTTGAAGACAGCGATCAGCCATTGACCTGACCAAGTCC
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AGAAAAGGCCGGCAGTCCAACCTGGAATCCTCAGCATCTTCTGATTCTACAAGCCAGTTTGCCTCGAGCC
TCTTCCAGACATCAGAGGGCAAATACCTGCTGTCTGATCTGGGCCACAAGAGCGTATGCAAATCTCTAA
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GGCGGGACAAAATTTCTGAAAACATGGACAAAGGCCACCCCATCTTTTATTGCAAGTACTGTGCTCCC
AGTTTCAGAACCCCTTCTACCTACATCAGTCACTTAGAATCTCACCTGGGTTTCCAATGAAGGACATGAC
CCGCTTGTGAGTGGACCAGCAAAGGAGGAGCAAGAGATCTCCGGGTATCGTGGCTCAGAGGCTCT
CCAGAAAACAATAGCTGCCGAAGAGGACACAGACTCTAAATCAAGTGAAGTTGTGCTGTGCGACATTTG
TGAGCAAAACATGCGGTAAAACCTCCACTAAGCAAAACGCACAGCAAGTCAACCCGAACACCATTACAGTT
TGTAACAGACGTGGATGAAGAATAG
    
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_173485 unedited  
TACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCAGAGGCCGAGTGACGTCCTA  
GGAGCCACCGGGCAAGAGGCGGAGGAGACCCAGAGAGGCCAGAGACAGCGGGCCCCAG  
CGCGCGGCTCGGGGCTGGGGCGCCAGAAGTGGGACTGGAGCGAAGTAGAGGATGCCGAGG  
AGAAAACAGCAGGCACCCAAGCGGGCGGCAGGCTACGCCAGGAGGAACAGCTGAAAGAA  
GAGGAGGAAATAAAAAGAAGAGGAGGAGGAGGAGGAGGACAGCGGTTCCAGTAGCTCAACTGCAG  
GGTGGAATGACACAGGGACGGACGAGGAGCTAGAAAACGGGCCCCAGAGCAAAAAGGCTGC  
TTCAGCTACCAGAACTCTCCAGGAAGTCATTTGTCCAATCAGGATGCCGAGAACGAGTCT  
CTGCTGAGTGACGCCAGTGATCAGGTGTCGGACATCAAGAGTGTCTGCGGCAGAGATGCC  
TCAGACAAGAAAGCACACTCACGTCAGGCTTCCAAACGAAGCACACAATTGCATGGAT  
AAAATGACCGCTGTCTACGCCAACATCCTGTCGGATTCTACTGGTCAGGCCTGGGCCTT  
GGCTTCAAGCTGTCCAATAGTGAGAGGAGGAAGTGTGACACCCGAAACGGCAGCAACAAG  
AGTGATTNTGATTGGCACCAAGACGCTCTGTCCAAAAGCCTGCAGCAGAAGTTCCTTCT  
CGGTCCGTCTCGAAACAGCCTGTTCCAGCTCGGTGCAGNTGTACCGACAGAGCAGCAAGA  
TGTGCGGGACTGTGTTCCAGGGGCCAGCAGATCCGATGCCGACAGTGCAGCGCGGCT  
ATGACCCCTANTCGAGCTGACTGTGCACATGATGAAACGGCCCTATCAGATGACACGCA  
AAAGGACAGCTCGACCCCGAGCTTCAAGCCAGNAAAGGNCTTCAGATATGACAGAAGA  
GCTCAAN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_173485 unedited  
NANGAGCCTGGGNAGGGTCACAGGGCATGCCACCCGGGTTCTGTTCCAGGAAACAGCTAT  
GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCAGTCTTCTCAGAG  
CCAGGGTGTCCAGGAGGATCAATGAGTTCAATGTCAGAAAGCAGGATGGTGCAACGAAG  
AAGGGTTCAGTGTGAGGGATCCAGGCTGAAAAGTGGAACTAAGGCATTCGTCACCTTGA  
ATTTAGAGTCTGTGCTCTTCCGCAGCTATTGTTTCTGGAGACCTCTGAGCCGACGATA  
CCCGGGAGATCTTGTCTCCACCTTGCTTTGCTGGTCCACTGACAAGCGGGTCATGTCCT  
TCATTTGAAAACCCAGGTGAGATTCTAAGTGACTGATGTAGGTAGAAGGGGTTCTGAACT  
GGGAGGCACAGTCACTGCAATAAAAGATGGGGTGGCCTTTGTCCATGTTTTTCAGAAATT  
TTGTCCCGCCGTTTTCCCTAAGCTGGTACTTGACGTTGGCCAGCCAGTACTGATAGTGG  
TCATTGAGAGTCCCGTAAACTTAGAGATTTGCATACGCTCTTGTGGGCCAGATCAGACA  
GCAGGTATTTGCCCTCTGATGTCTGGAAGAGGCTCGAGGCAAACTGGGCTTGTAGAATCA  
GAAGATGCTGAGGATTCCAGTTGGACTGCCGGCCTTTTCTTTTATGCAAAGTTGAGACTT  
CACTGGAGACATCCTCAAAGCGCCTGACATCCATTTCCAGCTTCATGGGGGGGACCCCTG  
GNAAGAGGAAGCTGGCTTTTGGGNTGGTGGGCTTGGGGGAAGAACCTTGGACCCTGTT  
CGGCGAATGTCAAAAAGAGCGTGCTTCTGGAGGTGGGGGACATACAAAATT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_173485

**Insert Size:**

4000 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](#)

**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\\_173485.2](#), [NP\\_775756.2](#)

**RefSeq Size:** 4149 bp

**RefSeq ORF:** 3105 bp

**Locus ID:** 128553

**UniProt ID:** [Q9NRE2](#)

**Cytogenetics:** 20q13.2

**Domains:** homeobox, zf-C2H2

**Gene Summary:** This gene is a member of the teashirt C2H2-type zinc-finger protein family of transcription factors. This gene encodes a protein with five C2H2-type zinc fingers, a homeobox DNA-binding domain and a coiled-coil domain. This nuclear protein is predicted to act as a transcriptional repressor. This gene is thought to play a role in the development and progression of breast and other types of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.