

## Product datasheet for **SC113440**

### TEX2 (NM\_018469) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | TEX2 (NM_018469) Human Untagged Clone                                                             |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | TEX2                                                                                              |
| Synonyms:                 | HT008; TMEM96                                                                                     |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL5</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_018469, the custom clone sequence may differ by one or more nucleotides |

ATGACAAGTCTGTATGGTCGCCATGCCGAGAAAACCACTGACATGCCAAAACCATCAGCCCTAAAGTGC  
ACGTGCAGAGGTCCGTGTCCCGAGATACCATCGCCATTCACTTCTCGGCATCCGGCGAGGAGGAGGAGGA  
AGAGGAGGAGGAGTTCAAGGAGTACTTTGAGGAGGGCTGGATGACCAAAGCATTGTAACAGGGCTGGAA  
GCCAAGGAAGACCTCTATCTTGAACCCCAAGTTGGCCATGACCCCGCGGCCCTGCTGCCTCGCTGTCC  
TGGCAGATGGACTGTCCGTGTCCAGGCCCTGCCATTTTGGCCGTCTCCAAGAACACTGTAAGCTGTT  
GGAGTCCCCTGTCCAGCAGCACAAGTATTAAGTACAGTGCCATTGGCTGTGTCCCAGGGTCGTCTTCG  
TCGGGGCCCTTAGCTAGCTCTCCAGTGTGTCATCCCTTTCTGAGCAGAAAACAGTTCTTCTCCCCAT  
TGTCTCTCCTTCTAAGTCTCCCATCCTCTCATCCAGTGCCTCAACCTCCACCCTTTCAGTGCAAAACC  
CTTCATGAGCCTTGTGAAGTCCCTGTGACCGAGGTGGAGCCAAAAGAATCCCCACACCCCGCAAGGCAC  
AGGCACCTTGATGAAGACATTAGTCAAGTCTCTGTCCACGGACACTTCCCGGCAGGAGTCGGATACAGTGT  
CCTATAAGCCACCTGATTCCAACTGAACCTACACCTGTTCAAGCAGTTCACACAGCCCCGAAACACAGG  
TGGAGATTCCAAACTGCACCTTCTTCCCACTGACTTCTCCCTCTGATACTCGTTCTTTTTTAAAGTG  
CCCGAAATGGAGGCTAAAATTGAAGATACTAAACGACGCCTTTCAGAAGTCATCTATGAGCCTTTTCAGC  
TCCTTAGTAAAAATTATAGGGGAAGAAAGTGGCAGCCATAGGCCAAAGCCTTATCTTCAAGTGCTTCAGA  
ACTCTCCAATCTGTCCAGCTTGAATGGGCACTTGAAAGCAATAACAACCTACAGCATCAAGGAGGAGGAG  
TGTGATTCTGAGGGGATGGCTACGGAAGTGATTCCAACATCCCCAGAAGTGACCACCCAAAGTCCACTG  
GTGAGCCCAAGAGAGATAGAAGTGAAGGTTCCAGGGGAGCAGTCTGAAGGATTTAGGCCTGAAGAC  
AAGTTCTCTAGTCTGGAGAAATGTTCTTTGTCTGCCTTAGTGAGCAAAGAAGATGAAGAGTTTTGTGAA  
CTGTACACTGAGGACTTCGATTTGGAACGGAGGGGAGAGTAAAGTTGATAAGCTCTCAGATATTCCTC  
TCAAGCCAGAGGTGCTCGCGGAAGATGGTGTGGTCTTGACAGTGAGGACGAGGTGGACTCGGCCGTGCA  
GCACCCGAATTGCCAGTGAAGACGTTGGGCTTCTTTATAATGTGTGTCTATGTGACCTCATCTCCCC  
CTCCCCCACTATGTGAGTGGACTCTTTCTGGAATTGGCCTTGGATTCATGACTGCAGTTTGCGTGATTT  
GGTTTTTACACCACCAAGTGCTCATAAATATCACAAGTTACACAAAATCTGCGACACTGGAACACAAG



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ATCTCTGGATATCAAAGAACCTGAAATACTGAAGGGATGGATGAATGAGATTTACAACTATGATCCAGAA  
ACCTACCATGCGACTTTGACACATTAGTCTTTGTTGACTTGAGGGTGGAACTTAAGACTTTCAAAGC  
CCAATAAAAAATATATCCAGGAGGGCCAGCTACAATGAACCCAAGCCAGAGGTACCTACATCAGCCAGAA  
AATCTATGACCTCTCAGACAGCAAGATTATCTGTACCTAAACTTTGGCTCGAAAGCGAATCTGGAAT  
AAAAAGTACCCCATTTGTATCGAGCTTGGTCAGCAAGTAGCTTTATGTCTAAAGCTCAGACTGATAAGG  
AGACTTCAGAAGAGAAGCCGCCAGCTGAGGGAAGTGAGGACCCTAAGAAGCCACCCCGCCCTCAGGAGGG  
AACAGATCTAGCCAGCGAGATCAGATACTCTATCTTTGGGAGAACTGGCCGAGAAAAAGAGGAATGG  
TTTAGGAGATTTATTCTGGCATCTAAGCTAAAGTCGGAATCAAGAAGTCATCGGGTGTCTCTGGAGGTA  
AACCAGCCCCGTCTTCTGGCTCCAGGGCTTTTGCTGCACACAGCAGACACAACAGTCCGTCCGGGCA  
CCTGACCCACAGCCGAGCAGCAGCAAGGCAGTGTGGAGGAGATCATGTACAGCCAAAGCAGAAGGAG  
CTGGCAGGCAGCGTGGCGAGAAGATGCTTCTGACTACAGCGTGTACATGGGCAGGTGTGTCCCCCAGG  
AAAGCCGAAGCCCCAGAGGAGCCCCCTGCAGAGTGGGAGAGCAGCCCCACAGCTGGGAAGAAGTTGCC  
AGAGGTTCCACCCTCTGAGGAGGAAGAACAGGAAGCCTGGGTGAATGCCTTGCTTGAAGAATATTTTGG  
GACTTCTTAGGAGAGAAATACTGGTCTGATCTGGTGTCTAAGAAGATCCAAATGAACTCAGCAAAATAA  
AGCTCCCCTACTTTATGAATGAGCTCACTCTGACGGAAGTTGACATGGGCGTGGCTGTGCCAAAAATCCT  
CCAGGCCTTCAAGCCTTACGTTGATCACCAAGGACTCTGGATTGATTTGAAATGTCTACAATGGGTCC  
TTTCTGATGACTCTCGAGACCAAATGAATTTGACCAAAGTAAAGAGCCTCTTGTGAAGCCTGA  
AGGTTGGAGAAATTGGCAAAGAAGGTTGCAGGCCCGGGCATTCTGTCTGGCGACAGCGATGAGGAATC  
CTCCAGCGCTGGCTCCTCCGAGGAAGACGATGCCCCAGAGCCAGCGGGGAGACAAACAGCTCCTCCCA  
GGGGCTGAAGGGTACGTTGGAGGTATCGAACAAGTAAGATTATGAGGTTTGTGATAAAATTACCAAGT  
CAAAATATTTCCAAAAGCAACAGAGACAGAGTTTATTAAGAAAGATCGAAGAAGTCTCCAACACACC  
CCTGCTGCTCACTGTTGAAGTACAAGAATGTAGAGGAACCTTGGCGGTCAACATTCCACCACCCCGACT  
GACCGAGTATGGTATGGTTTCCGAAAGCCACCACATGTGGAGCTGAAAGCTCGGCCAAAAGTTGGAGAGA  
GAGAAGTGACTTTAGTTTATGTGACAGACTGGATAGAGAAGAACTGGAGCAAGAGTTTCAGAAAGTTTT  
TGTCTGCAACATGGATGATGTTTATCACTATAATGCACTCAGCCATGGACCTCGCTCTACTTCC  
TGCTCTGAAAGACCCACCTGTGGAGGCTGTGATCAGCCATGA

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_018469 unedited  
AGCTATTTTGTNAATACGCACTCACTATAGNNGCGGCCGCGCAATTTCGGCACGAGGCCA  
AGCCAGAGGTCACCTACATCAGCCAGAAAATATGACCTCTCAGACAGCAAGATTTATCT  
TGTACCTAAAACCTTTGGCTCGAAAGCGAATCTGGAATAAAAAGTACCCCATTTGTATCGA  
GCTTGGTCAGCAAGATGACTTTATGTCTAAAGCTCAGACTGATAAGGAGACTTCAGAAGA  
GAAGCCGCCAGCTGAGGGAAGTGAGGACCCTAAGAAGCCACCCCGCCCTCAGGAGGGAAC  
AAGATCTAGCCAGCGAGATCAGATACTCTATCTTTGGGAGAACTGGCCGAGAAAAAGA  
GGAATGGTTTAGGAGATTTATTCTGGCATCTAAGCTAAAGTCGGAATCAAGAAGTCATC  
GGGTGTCTCTGGAGGTAAACCAGGGCTTTTGCTGCACACAGCAGACACAACAGTCCGTC  
CGGGCACCTGACCCACAGCCGAGCAGCAGCAAGGCAGTGTGGAGGAGATCATGTCACA  
GCCAAAGCAGAAGGAGCTGGCAGGCAGCGTGGCGCAGAAGATGCTTCTCGACTACAGCGT  
GTACATGGGCAGGTGTGTCCCCAGGAAAGCCGAAGCCCCAGAGGAGCCCCCTGCAGAG  
TGCGGAGAGCAGCCCCACAGCTGGGAAGAAGTTGCCAGAGGTTCCACCCTCTGAGGAGGA  
AGAACAGGAAGCCTGGGTGAATGCCTTGCTTGAAGAATATTTTGGGACTTCTTANGAGA  
AGAATACTGGTCTGATCTGGTGTCTAAGAAGACCANATGAACTCAGCAAAATAAGCTTC  
CCTACTTATGAATGACTCACTCTGACGGAAGTTGACATGGGCGTTGGTGTGCCAAATNC  
TTCAGGCCTTAAGCCTACGTGATCACCAAGACTTTGGATGATTTGAAAGTCTACATGGT  
NCTTTTGAGACTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_018469 unedited  
 GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTAGTATTTGACATTGAGATATTT  
 ATTTTGTGAAACAATGCAAGCGATTTTAAATCCCCACATACTATTTGATTAAGTGCAACA  
 TGGTACAGTCATGTGAATCTCTTTACACGATAGTGCATCTAGTCCTTAGCCTTTAGTTA  
 TTGCACAACAATTATAAAGACCAGTGACCAGGACACGTGGACTCTGACAGGCAGATCGGC  
 CTACACAACGAAAAATCAGAACAGTACACCACTGGAATGGTCAAACAATTTAAGTCAAA  
 TGTTTTAATGGTGCAATTAATAAAGGGTTCAACATGTTTTCAATATATTAATTTCTTT  
 AAAGTCATGTTTCAGGCAAGGTGCTGTTTAAAAAACCACTATTAGCTTTGTCCACACATGT  
 AAGTTATCAAAAGTTACCAAGGTAATTTTGACGTTGAATGCAGCTTTAAACAATAAAAA  
 AATGGTATTAGGTTTACTTCTCGAAGCAAAGAGAGCCCCAACCTTGTAACATAACATT  
 CTGACACAAATGCACAAATTAAGTTGGCAACATTAATTTTGAGATGTAGTGTGATGCTG  
 AGCAAATTTTGGTCTTGACTCTTGAAATAATTAAGAGAGCAGTTCTCCGTTTTGGCCT  
 TCAGGAAGGGAATCTGCCCAGGAATCTCCATCAGATTAACAACTGTTTCGATTCC  
 ATATAACCTGGNAGACACAGGAAACGCCAGATGAAAACTGGCTCTGGCTTTCTAACC  
 CATCCCATCTGTATGAGAAGACCATCCTGTCATGTGCAGTGTGATGTTTACATACG  
 CTCCTGTCTCAGGAAACATTCAGAATAGCTAGCCCCACGTGGTGTACCTATTGTGAAAG  
 GCTTGGATGGTTGACCCATGGCTTGCTGAGTTACATAATCCATGTCCAACCACTGTAA  
 CCGTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_018469

**Insert Size:**

3340 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\_018469.3, NP\_060939.3

**RefSeq Size:** 5105 bp  
**RefSeq ORF:** 3405 bp  
**Locus ID:** 55852  
**UniProt ID:** [Q8IWB9](#)  
**Cytogenetics:** 17q23.3  
**Protein Families:** Transmembrane

**Gene Summary:** During endoplasmic reticulum (ER) stress or when cellular ceramide levels increase, may induce contacts between the ER and medial-Golgi complex to facilitate non-vesicular transport of ceramides from the ER to the Golgi complex where they are converted to complex sphingolipids, preventing toxic ceramide accumulation.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).