

## Product datasheet for **SC302456**

### SFMBT2 (NM\_001029880) Human Untagged Clone

#### Product data:

|                           |                        |
|---------------------------|------------------------|
| Product Type:             | Expression Plasmids    |
| Tag:                      | Tag Free               |
| Symbol:                   | SFMBT2                 |
| Mammalian Cell Selection: | Neomycin               |
| Vector:                   | pCMV6-Entry (PS100001) |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |



Fully Sequenced ORF:

>SC302456 representing NM\_001029880.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGGAGAGCACTTTGTCAGCTTCCAATATGCAAGACCCTTCATCTTACCCTTGGAAAAGTGTCTCGGC  
TCAGCTAATGGAATGGAGACCTTGATTCTGAAGAAGGCTCAAGCTTGGAGGAACTGGCTTTAACTGG  
GGAGAATATTTGGAAGAGACAGGAGCAAGTGCTGCTCCCCACACATCATTCAAACACGTTGAAATCAGC  
ATTCAGAGCAACTTCCAGCCAGGAATGAAATTGGAAGTGGCTAATAAGAACAACCCGACACGTAAGTGG  
GTGGCCACGATCATTACCACGTGCGGGCAGCTGCTGCTTCTGCGCTACTGCGGTTACGGGGAGGACCGC  
AGGGCCGACTTCTGGTGTGACGTAGTCATCGCGGATTTGCACCCCGTGGGTGGTGCACACAGAACAAC  
AAGGTGTTGATGCCGCCGACGCAATCAAAGAGAAGTACACAGACTGGACAGAATTTCTCATACGTGAC  
TTGACTGGTTTCGAGGACAGCACCCGCCAACCTCCTGGAAGGCTCTGCGAGGGAAGGCCCTATAGAC  
CTCATTACAGTTGGTTCCTTAATAGAACTCAGGATCCAGAACCTTTTCACTACTGGATAGTATAGT  
GTGATTGAAAATGTTGGAGGAAGATTACGCCTTCGCTATGTGGATTGGAGGACACTGAATCCTATGAC  
CAGTGGTTGTTTTACTTGGATTACAGACTTCGACCAAGTTGGTTGGTGTCAAGAGAATAAATACAGAATG  
GACCCACCTTCAGAAATCTATCCTTTGAAGATGGCCTCTGAATGGAATGTACTCTGGAATAATCCCTT  
ATTGATGCTGCCAAATTTCTCTTCCAATGGAAGTGTTAAGGATCACGAGATTTGCGAAGCCATTTC  
TTCACAGTTGGGATGAAGCTTGAGACAGTGAATATGTGCGAGCCCTTTACATCTCTCTGCGTCGGTG  
ACTAAGGTTTTTAACAATCACTTTTTTCAAGTGACTATTGATGACCTAAGACCTGAACCAAGTAAACTG  
TCAATGCTGTGCCATGCAGATTCTTTGGGGATTTTGCAGTACAGTGGTGCCTTAAAAATGGAGTCAGC  
CTCACTCTCCCAAAGGTTACTCTGCCCAGGACTTCGACTGGGCGAGATTATCACAAGCAGCATGGGGCG  
CAGGAAGCCCTCCCTTCTGCTTCCGAAATACATCATTCAAGTCAGGTTTTCACAAGAATCAAGAACTT  
GAAGCTGTGAACCCAGGAATCCAGGAGAACTGTGTGTGGCCTCCGTTGTGAGTGTGAAGGGGCGGCTA  
ATGTGGCTTCACTGGAAGGGCTGCAGACTCCTGTTCCAGAGGTCAATTGTTGATGTGGAATCCATGGAC  
ATCTTCCAGTGGGCTGGTGTGAAGCAATTCTTATCCTTTGACTGCACCACACAAAACAGTCTCACAA  
AAGAAGAGAAAGATTGCAGTCGTGCAACCAGAGAAACAATTGCCGCCACAGTGCCTGTTAAGAAATA  
CCTCATGACCTTTGTTTTATCCCTCACCTGGACACCACAGGAACCGTCAACGGGAAATACTGCTGCTCT  
CAGCTCTTCATCAACCACAGGTGTTTCTCAGGCCCTTACCTGAACAAAGGAAGGATTGCAGAGCTACCT  
CAGTCGGTGGGACCGGCAATGCGTGCTGGTTCTTAAGAGGTTCTTAGCATGATAATCAACGCAGCC  
TACAAGCTGGAAGGTATTAAGAGAATTACAGCTGGTGAAGATCCCACTGGAATTTCCAGGAAGAG  
ACGCTGAAGGCCAAATACAGAGGCAAAACATACAGGGCTGTGGTCAAAATCGTACGGACATCTGACCAA  
GTGCGAAATTTCTGCCCGGAGTCTGTGCCAAGCTAGAGTGCTGTCCAAATTTGTTTAGTCTGTGCTG  
ATATCTGAAAAGTCCCAAGAGAACTGCTCCATTATACAAAACCAAAATACACCTATTACTATGAAAG  
AGAAAGAAGATCTCAAGCCCCCATCGGGGAAAGCAACCCGACAGCGGACACCCCAACCCCGCCAGG  
CGGAGGAAGCGACGGAATCCATTTTCTGTCAGAAGAAACGGAGGTCTTCTGCCGTGGACTTCACCGCG  
GGCTCGGGGGAGGAAAGTGAAGAGGAGGACGCTGACGCCATGGACGATGACACCGCCAGTGAGGAGACC  
GGCTCCGAGCTCCGGGATGACCAGACGACACCTCGTCGGCGGAGGTGCCCTCGGCCCGGCCCGGAGG  
GCCGTACCTCGCGAGCGGCTCAGAGCCCGTGCGCCGCCACCCCGAGAGGACACGAAGGGGCCGC  
GGGGCGCCGCTGCTCCTCAGCAGAGGAAGGGGAGAAGTGCCCGCCGACCAAGCCCGAGGGGACAGAG  
GACACGAAACAGGAGGAGGAGGAGAGACTGGTTCTGGAGAGCAACCCGTTGGAGTGGACGGTCACCGAC  
GTGGTGAGGTTTATTAAGCTGACAGACTGTGCCCTTGGCCAAGATATTTCAAGGAGCAGGATATTGAC  
GGCCAAGCACTCTGCTTCTGACCTTCCGACGGTGCAGGAGTGCATGGAGTGAAGCTGGGGCTGCC  
ATCAAGTTATGCCACCAGATCGAGAGAGTCAAAGTGGCTTTCTACGCCAGTACGCCAACTGA  
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT  
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM\_001029880

Insert Size:

2685 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | 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.                                                                                                                                                                                                                                                      |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u><a href="#">NM_001029880.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 8024 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2685 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 57713                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u><a href="#">Q5VUG0</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 10p14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MW:</b>                    | 100.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Summary:</b>          | <p>Transcriptional repressor of HOXB13 gene.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. 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.</p>                                                    |