

Product datasheet for **SC317387**

TESC (NM_017899) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TESC (NM_017899) Human Untagged Clone
Tag: Tag Free
Symbol: TESC
Synonyms: CHP3; TSC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC317387 representing NM_017899.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCGTGCCCACTCCGCTCTGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCATCGGAT
CAGATCGAGCAGCTCCATCGGAGATTTAAGCAGCTGAGTGGAGATCAGCCTACCATTCGCAAGGAGAAC
TTCAACAATGTCCCGGACCTGGAGCTCAACCCCATCCGATCCAAAATTGTTCTGTCCTTCTTCGACAAC
AGGAACCTGCGCAAGGGACCCAGTGGCCTGGCTGATGAGATCAATTCGAGGACTTCTGACCATCATG
TCCTACTTCCGGCCCATCGACACCACATGGACGAGGAACAGGTGGAGCTGTCCCGAAGGAGAAGCTG
AGATTTCTGTTCCACATGTACGACTCGGACAGCGACGGCCGCATCACTCTGGAAGAATATCGAAATGTG
GTCGAGGAGCTGCTGTCCGGAAACCTCACATCGAGAAGGAGTCCGCTCGCTCCATCGCCGACGGGGCC
ATGATGGAGGCGCCAGCGTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACGAGGGGATCACCTTC
GAGGACTTCTGAAGATCTGGCAGGGGATCGACATTGAGACCAAGATGCACGTCCGCTTCTTAACATG
GAAACCATGGCCCTCTGCCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul
Plasmid Map:
ACCN: NM_017899
Insert Size: 645 bp



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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:	<ol style="list-style-type: none">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:	<u>NM_017899.3</u>
RefSeq Size:	1039 bp
RefSeq ORF:	645 bp
Locus ID:	54997
UniProt ID:	<u>Q96BS2</u>
Cytogenetics:	12q24.22
MW:	24.7 kDa
Gene Summary:	Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Promotes the maturation, transport, cell surface stability and exchange activity of SLC9A1/NHE1 at the plasma membrane. Promotes the induction of hematopoietic stem cell differentiation toward megakaryocytic lineage. Essential for the coupling of ERK cascade activation with the expression of ETS family genes in megakaryocytic differentiation. Also involved in granulocytic differentiation in a ERK-dependent manner. Inhibits the phosphatase activity of calcineurin.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longer isoform (1).