

Product datasheet for SC328290

TESC (NM_001168325) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TESC (NM_001168325) 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:	>SC328290 representing NM_001168325. Blue=Insert sequence Red=Cloning site Green=Tag(s)

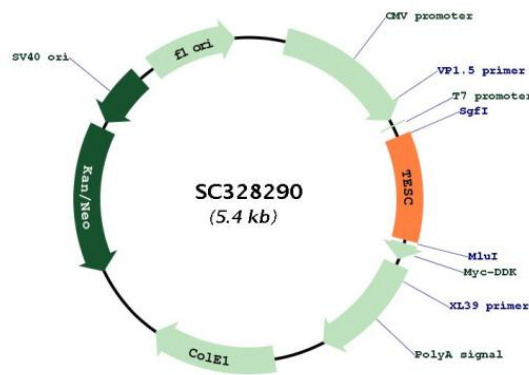
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCGCTGCCACTCCGCTCTGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCATCGGAT
CAGATCGAGCAGCTCCATCGGAGATTTAAGCAGCTGAGTGGAGATCAGCCTACCATTGGAACCTGCGC
AAGGGACCCAGTGGCCTGGCTGATGAGATCAATTCGAGGACTTCTGACCATCATGTCTACTTCCGG
CCCATCGACACCACCATGGACGAGGAACAGGTGGAGCTGTCCCGAAGGAGAAGCTGAGATTTCTGTTT
CACATGTACGACTCGGACAGCGACGCCGCATCACTCTGGAAGAATATCGAAATGTGGTCGAGGAGCTG
CTGTCCGGAAACCCTCACATCGAGAAGGAGTCCGCTCGCTCCATCGCCGACGGGGCCATGATGGAGGCG
GCCAGCGTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACGAGGGGATCACCTTCGAGGACTTCTG
AAGATCTGGCAGGGGATCGACATTGAGACCAAGATGCACGTCCGCTTCTTAACATGAAACCATGGCC
CTCTGCCACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_001168325

Insert Size: 564 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_001168325.1](#)

RefSeq Size: 958 bp

RefSeq ORF: 564 bp

Locus ID: 54997

UniProt ID: [Q96BS2](#)

Cytogenetics: 12q24.22

MW: 21.5 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 (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.