

Product datasheet for RG229652

TESC (NM 001168325) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TESC (NM_001168325) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: TESC

Synonyms: CHP3; TSC

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG229652 representing NM_001168325
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCGCTGCCCACTCCGCGTCTGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCATCGGATC
AGATCGAGCAGCTCCATCGGAGATTTAAGCAGCTGAGTGGAGATCAGCCTACCATTCGGAACCTGCGCAA
GGGACCCAGTGGCCTGATGAGATCAATTTCGAGGACTTCCTGACCATCATGTCCTACTTCCGGCCC
ATCGACACCACCATGGACGAGGAACAGGTGGAGCTGTCCCGGAAGGAGAAGCTGAGATTTCTGTTCCACA
TGTACGACTCGGACAGCGACGGCCGCATCACTCTGGAAGAATATCGAAATGTGGTCGAGGAGCTGCTGTC
GGGAAACCCTCACATCGAGAAGGAGTCCGCTCCATCGCCGACGGGGCCATGATGGAGGCGGCCAGC
GTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACGAGGGGATCACCTTCGAGGACTTCCTGAAGATCT
GCAGGGGGATCGACATTGAGACCAAGATGCACGTCCGCTTCCTTAACATGGAAACCATGGCCCTCTGCCA

С

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229652 representing NM_001168325

Red=Cloning site Green=Tags(s)

 ${\tt MGAAHSASEEVRELEGKTGFSSDQIEQLHRRFKQLSGDQPTIRNLRKGPSGLADEINFEDFLTIMSYFRP} \\ {\tt IDTTMDEEQVELSRKEKLRFLFHMYDSDSDGRITLEEYRNVVEELLSGNPHIEKESARSIADGAMMEAAS} \\$

VCMGQMEPDQVYEGITFEDFLKIWQGIDIETKMHVRFLNMETMALCH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



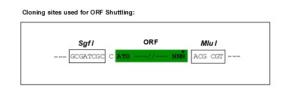
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

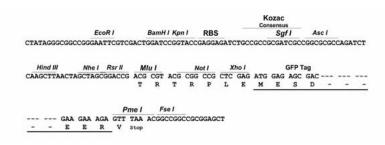
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

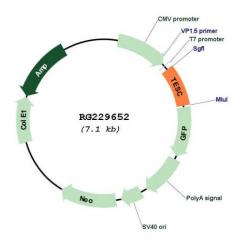


Cloning Scheme:





Plasmid Map:



ACCN: NM_001168325

ORF Size: 561 bp

OTI Disclaimer: 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 001168325.1</u>, <u>NP 001161797.1</u>

 RefSeq Size:
 958 bp

 RefSeq ORF:
 564 bp

 Locus ID:
 54997

 UniProt ID:
 Q96BS2

 Cytogenetics:
 12q24.22

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]