

Product datasheet for MR202345

Tesc (NM_021344) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tesc (NM_021344) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Tesc

Synonyms: 1010001A17Rik; 2410011K10Rik; TE-1

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR202345 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202345 protein sequence

Red=Cloning site Green=Tags(s)

MGAAHSASEEVRELEGKTGFSSDQIEQLHRRFKQLSGDQPTIRKENFNNVPDLELNPIRSKIVRAFFDNR NLRKGSSGLADEINFEDFLTIMSYFRPIDTTLGEEQVELSRKEKLKFLFHMYDSDSDGRITLEEYRNVVE ELLSGNPHIEKESARSIADGAMMEAASVCVGQMEPDQVYEGITFEDFLKIWQGIDIETKMHIRFLNMETI ALCH

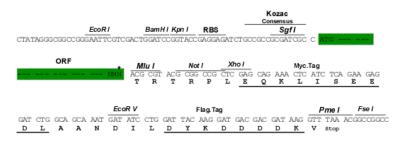
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_021344

ORF Size: 645 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 021344.4</u>

 RefSeq Size:
 942 bp

 RefSeq ORF:
 645 bp

 Locus ID:
 57816

 UniProt ID:
 Q9|KL5

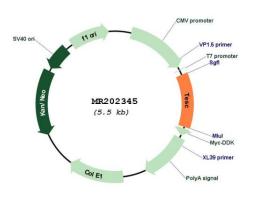
Cytogenetics: 5 57.84 cM MW: 24.6 kDa

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]

Product images:



Circular map for MR202345