

Product datasheet for **MG202345**

Tesc (NM_021344) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tesc (NM_021344) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tesc
Synonyms:	1010001A17Rik; 2410011K10Rik; TE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202345 representing NM_021344 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCTGCCACTCGGCGTCCGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCCTCGGACC
AGATAGAGCAGCTGCATCGGAGGTTCAAGCAGCTAAGCGGGGACCAGCCACCATTTCGCAAGGAGAACTT
CAACAATGTCCCTGACCTGGAGCTCAACCCGATCCGATCCAAAATCGTCCGTGCCTTCTTCGACAACAGG
AACCTGCGAAAGGGATCCAGCGGTCTGGCCGATGAGATCAACTTTGAGGACTTCTGACTATCATGTCCT
ACTTCCGGCCCATCGACACCACCCTGGGCGAGGAACAGGTGGAGCTGTCACGAAAGGAGAAGCTGAAATT
TCTGTTTCATATGTATGATTCGGACAGTGACGGCCGCATCACCTGGAAGAGTATAGAAATGTGGTGGAG
GAGCTGCTCTCGGAAACCCTCACATTGAAAAGGAGTCGGCTCGGTCCATTGCAGACGGGCCATGATGG
AGGCGGCCAGCGTGTGCGTGGGGCAGATGGAACCGGACCAGGTGTACGAGGGGATCACCTTTGAGGACTT
CCTGAAGATCTGGCAGGGCATCGACATCGAGACCAAGATGCACATTCGTTTCCTCAACATGGAGACCATC
GCCCTCTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202345 representing NM_021344
 Red=Cloning site Green=Tags(s)

MGAAHSAEEVRELEGKTFSSDQIEQLHRRFKQLSGDQPTIRKENFNNVPDLELNPIRSKIVRAFFDNR
 NLRKGSGLADEINFEDFLTIMSYFRPIDTTLGEEQVELSRKEKLKFLHMYDSDSDGRITL E E Y R N V V E
 ELLSGNPHIEKESARSIADGAMMEAASVCVGMPEPDQVYEGITFEDFLKIWQID I E T K M H I R F L N M E T I
 ALCH

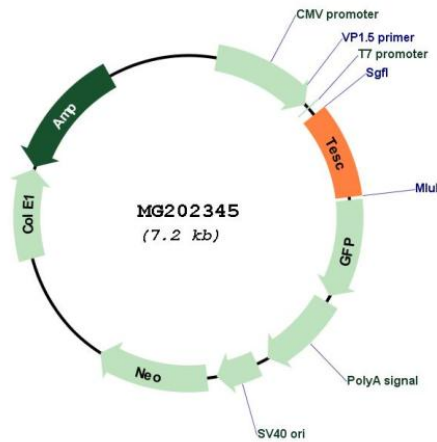
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021344

ORF Size: 642 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:	<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:	NM_021344.4
RefSeq Size:	942 bp
RefSeq ORF:	645 bp
Locus ID:	57816
UniProt ID:	Q9JKL5
Cytogenetics:	5 57.84 cM
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]