

Product datasheet for **SC326545**

TEF (NM_001145398) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326545 representing NM_001145398. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACATGCCTGAGGTCTCAAGTCCCTGCTGGAGCACTCTCTGCCTTGGCCAGAGAAGAGAACAGAT
AAGGAAAAGGGGAAGGAAAAGCTGGAGGAGGACGAGGCCGAGCCGCCAGCACCATGGCTGTCTCAGCC
TCCCTCATGCCACCATCTGGGACAAGACCATCCCATATGATGGCGAATCTTCCACCTGGAGTACATG
GACCTGGATGAGTTCTGCTGGAGAATGGCATCCCGCCAGCCCCACCCACCTGGCCACAACCTGCTG
CTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACAGCATCCCCACCATCCTCTCC
ACTGCCATCTTTCAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAGAAGGAGAGGGAGACT
CCCAGTCCCATCGACCCAATTGTGTGGAAGTGGATGTGAACCTCAATCCGGACCCCGCCGACCTGGTG
CTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAGTTTGCTGAGGAGGACCTGAAG
CCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTGTCCCGACGAGCAGAAGGATGAAAAGTACTGG
ACAAGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAG
ATCACCATCCGGGAGCCTTCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGC
AAGGAGGTGGGCAAGTGAAGACCATCGTGTCCAAGTATGAGACCAATACGGGCCCTTGTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGGAGTCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001145398
Insert Size:	822 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001145398.2
RefSeq Size:	4398 bp
RefSeq ORF:	822 bp
Locus ID:	7008
UniProt ID:	Q10587
Cytogenetics:	22q13.2
Protein Families:	Transcription Factors
MW:	30.6 kDa

Gene Summary:

This gene encodes a member of the PAR (proline and acidic amino acid-rich) subfamily of basic region/leucine zipper (bZIP) transcription factors. It is expressed in a broad range of cells and tissues in adult animals, however, during embryonic development, TEF expression appears to be restricted to the developing anterior pituitary gland, coincident with the appearance of thyroid-stimulating hormone, beta (TSHB). Indeed, TEF can bind to, and transactivate the TSHB promoter. It shows homology (in the functional domains) with other members of the PAR-bZIP subfamily of transcription factors, which include albumin D box-binding protein (DBP), human hepatic leukemia factor (HLF) and chicken vitellogenin gene-binding protein (VBP); VBP is considered the chicken homologue of TEF. Different members of the subfamily can readily form heterodimers, and share DNA-binding, and transcriptional regulatory properties. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (2) has an alternate 5' exon, as compared to variant 1. The resulting isoform (2) has a shorter and different N-terminus, as compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.