

Product datasheet for SC122257

TEF (BC021980) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	TEF
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC021980 edited
 GGCACGAGGATTTTGTTATTAGTGGAAGAGCCTTGAGCTTAAAGCTCTTCATTTTCTTT
 GCCGAAAGTATATGGTTTGTGTTTTTGCAGTTTTATTTTTTAAAGGATGGACACTAAAT
 CTCCTGGTGTCCATGTTCCGAGCCCGGTGGCTGGGATGGTGGCTCGATGTGTCTCCTCTTT
 ATCCCCGCCCTCTGCCTGTTTGGTGCCCTCCCTTCTTTCCCCCAGGCAGTGGGTATCGGGT
 TCTTTCCCAAAGTGCTTACTTGAAAGAGTGTGGCTGTGGACTCTTTTCGAAATGCCCC
 TCTGAGTCAGGAGCCTGGTGGGACAAGATGGAGGATGTCCACAGAGGCTGACCTGTGGG
 GGAAAAGAAGTGCTCAGGTAAGGTTGTCTCCTCTCCTGTCTAAAAAATCCATGCTTGC
 AGGAGAGGGTTGGTGCCTGCTCAGTTTCTGTCGAGGGAATGGGAGTCTCCTCGGCTCCCT
 CCTGGGCCCTCTGCTTCTTGGAGGCCGACCGCTGGAGACTGCGGCTCCTGTGCTTGGATC
 TTTGACATCTGTCACTGCTGAGGCTAGAGAAGTTGACTTTACCTTGGCTTTCTGTGGG
 TTCCCGATGGGCTTGGCAAGTGCCGTCTACTTCTAAGCATCCTGTCTAAAGCTTTGTGG
 CACCCTCAGTGCAACCTCAGAACAGACAAATCATGAATGAGCTGGAACCTTGCAAGAATA
 TTCATATTATAAATGTCTCATCTGATGGAGGAACGTGTGCATTTAGAGAGAGGGAGAGTT
 TTCAAGGTTTATGGCAACTTTGTGGAGGACCTGGGTAACCTTACCCTTGGCCAAAGGAA
 GAGGTTTTCTGTCTGGCTTCTGAGGTTGGAGGGGCACTTAGCAGTGAACCTTAAGTCT
 GGGTACATGTAACCCTGCTGAGGGGCTGTGCAGGCCGCTCCTACGGTCTTTGGCCTGAG
 GCAGGGCGGGAGGCATGCAAGCCAGTGGGGGAAAACCCCTCTGAAGCTGGGCAGCCCTCT
 ACCTGGGCCCGGGAGCCGTGCTCCTTGGAAACGAAAGGGCCGAGGAGCATCTGTTTTTC
 ATGGCAAAGCTCTACTCCAGAGCTCCTTTAACATCTGCTAATTAAGTGAATAAATTTTT
 CTAGAAAATGGCAAAGATGACTTCCAGGTGGATATTGCTCTCTTACGGTGTGGGGATGC
 CAGAACACCACTTGGTTTTATTTTTCTAAGTGCATGTGATGTGATAGAGTGTGTGGGGCT
 CTGTGTCTTCCCTGGGAGCTGGCATTCCAGCGGGCCCTCTCTTTACCTTTGTTGGGGG
 AAGGAGGCAAGAGAGAAATCCTTCTTCCAGCCAGAGAGGCGAGAAGCAGACCGTAGCC
 CATTGGCCTTATGTGCGTGTGTGCGTGCGAGTGTGCACTGCTGGTGGCCGGAGTGATG
 TGGTGGGAGGGAAGCCGGAATGTATCCTTTTCAGACAAAATTAATATTTTGAATGAG
 AAAAAAAAAAAAAAAAAA



5' Read Nucleotide Sequence:	>OriGene 5' read for BC021980 unedited <pre> NCTTTTCAGATTTGTATCAGACTTATATAGGCGGCCGCGCATTTCGGCACGAGGATTTTGT TATTAGTGGAAGAGCCTTGAGCTTAAAAGCTCTTCATTTTCTTTGCCGAAAGTATATGG TTTGTGTTTTTGCAGTTTTATTTTTTTAAGGATGGACACTAAATCTCTGGTGTCCATGTT CCGAGCCCGGTGGCTGGGATGGTGGCTCGATGTGTCTCCTCTTTATCCCGCCCTCTGCCT GTTTGGTGCCCTCCCTTCTTTCCCCCAGGCAGTGGGTATCGGGTTCTTTCCCAAAGTGCT TACTTGAAAGAGTGTGGCTGCTGGACTCTTTTCGAAATGCCCTCTGAGTCAGGAGCCT GGTGGGACAAAGATGGAGGATGTCCACAGAGGCTGACCTGTGGGGGAAAAGAAGTGCTCA GGTAAGGTTGTCTCCTCTCCTGTCTAAAAAATCCATGCTTGCAGGAGAGGGTTGGTGC CTGCTCAGTTTCTGTGAGGGAATGGGAGTCTCCTCGGCTCCCTCTGAGCCCTCTGCTT CTTGGAGGCCGACCGCTGGAGACTGCGGCTCCTGTGCTTGGATCTTTGACATCTGTCACT CACTGGAGGCTAGAGAAGTTGACTTTACCTTGGCTTTCTGTGGTTCCCGATGGGCTTGG AAGTGCCGTCTACTTCTAAGCATCCTGTCTAAAGCTTTGTGGCACCTCAGTGCANCT CAGAACAGACAAATCATGAATGAGCTGGNACTTTGCAGATATTCATATATAATGTCTAT CTGATGAGGACGTGTGCTTTAAAGAGGAAAGTTCAAGTTATGCACTTGAACGGACTTA CTGAGAAGGTCGTTGTAGTGGGCTACGACTACGACTACGGAGGTGTGCCTGA </pre>
Restriction Sites:	Please inquire
ACCN:	BC021980
Insert Size:	1518 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).
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:	<u>BC021980.1</u> , <u>AAH21980.1</u>
RefSeq Size:	1518 bp
Locus ID:	7008
Cytogenetics:	22q13.2
Protein Families:	Transcription Factors

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]