

## Product datasheet for **SC115738**

### **TLE4 (NM\_007005) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TLE4 (NM_007005) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLE4
Synonyms:	BCE-1; BCE1; E(spl); E(spl); ESG; ESG4; Grg-4; GRG4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007005, the custom clone sequence may differ by one or more nucleotides

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ATGATTCGCGACCTGAGCAAGATGTACCCGCAGACCAGACACCCGGCACCCGCATCAGCCTGCTCAACCCT
TTAAATTTACAATTTCCGAATCCTGTGATCGGATTAAGGAAGAGTTTCAGTTTTTACAGGCTCAATACCA
CAGTCTGAAGCTGGAATGTGAGAACTCGCCAGTGAGAAGACAGAGATGCAGCGCATTATGTCATGTAT
TATGAAATGTCTATGGGTTGAATATAGAAATGCAACAAGCAGGCAGAGATTGTCAAGAGGCTGAATGCTA
TCTGTGCACAAGTCATTCTTTCTGTCCCAAGAGCACCAGCAACAAGTGGTGCAGGCTGTGGAACGGGC
CAAGCAGGTGACCATGGCAGAACTGAACGCCATCATTGGGCAACAACCTCCAGGCCAGCATTATCACAT
GGACATGGTCTCCCCGTACCTCTGACTCCACACCCCTCAGGGCTCCAGCCCCCTGCCATTCCACCCATCG
GTAGCAGTGCCGGGCTTCTGGCCCTCTCCAGTGTCTAGGAGTTCAGTCCCATTCCAATTAAGATGA
GAAGAAGCACCATGACAATGATACCAAAGAGACAGAGACTCCATCAAGAGCTCTCAGTATCCCCATCA
GCCAGTTTCCGAGGTGCTGAGAAGCACAGAACTCCGAGACTACTCCTCAGAGAGCAAAAAGCAGAAAA
CTGAAGAAAAGGAAATTGCAGCTCGTTATGACAGCGATGGTGAGAAAAGTATGACAACCTGGTGGTTGA
CGTTTTCCAATGAGGATCCATCTTCCCCTCGAGGGAGCCAGCACATTCCCCAGAGAGAATGGCCTAGAC
AAGACACGCCTGCTCAAGAAAGATGCCCGATTAGTCCAGCCTCTATTGCATCTTCCAGCAGTACTCCCT
CCTCCAATCCAAGAACTTAGCCTTAATGAAAAATCTACTACTCCCGTCTCAAAGTCCAATACCCCTAC
TCCACGAACTGATGCGCCACCCAGGCAGTAACCTACTCCCGATTGAGGCCTGTACCTGGAAAAACCA
CCAGGAGTTGACCCTTTGGCCTCAAGCCTAAGGACCCCAATGGCAGTACCTTGTCCATATCCAACCTCAT
TTGGGATTGTGCCCATGCTGGAATGAACGGAGAGCTGACCAGCCCCGGAGCGGCCTACGCTGGGCTCCA
CAACATCTCCCCTCAGATGAGCGCAGCTGCTGCCGCCGCCGCTGCTGCTGCTGCCTATGGGAGATACCA
GTGGTGGGATTTGATCCACACCATCACATGCGTGTGCCAGCAATACCTCCAACCTGACAGGCATTCCAG
GAGGAAAACCAGCATACTCCTTCCATGTTAGCGCAGATGGTCAGATGCAGCCTGTCCCTTTTCCACCCGA
CGCCCTCATCGGACCTGGAATCCCCGGCATGCTCGCCAGATCAACACCCCTCAACCACGGGGAGGTGGTG
TGCGCGGTGACCATCAGCAACCCACGAGACACGTGTACACGGGTGGGAAGGGCTGCGTCAAGGTCTGGG
ACATCAGCCACCCAGGCAATAAGAGTCTGTCTCCAGCTCGACTGTCTGAACAGGGATAACTACATCCG
TTCCTGCAGATTGCTCCCTGATGGTCGCACCCTAATTGTTGGAGGGGAAGCCAGTACTTTGTCCATTTGG
GACCTGGCGGCTCCAACCCACGCATCAAGGCAGAGCTGACATCCTCGGCCCCCGCCTGCTATGCCCTGG
CCATCAGCCCCGATTCCAAGTCTGCTTCTCATGCTGCAGCGACGGCAACATCGCTGTGTGGGATCTGCA
CAACCAGACCTTGGTGAGGCAATTCAGGGCCACACAGATGGAGCCAGCTGTATTGACATTTCTAATGAT
GGACCAAAGCTCTGGACAGGTGGTTTGGACAACACGGTCAAGTCTGGGACCTGCAGGAGGGGCGGCAGC
TGACAGCAGCAGACTTACCTCCAGATCTTTTCTCTGGGCTACTGCCCAACTGGAGAGTGGCTTGCAAT
GGGGATGGAGAACAGCAATGTGGAAGTTTTGCATGTCACCAAGCCAGACAAATACCAACTACATCTTCAT
GAGAGCTGTGTGCTGTGCTCAAGTTTGCCATTGTGGCAAAATGGTTTGTAAAGCACTGGAAGGACAACC
TTCTGAATGCCTGGAGAACACCTTATGGGGCCAGTATATTCCAGTCCAAGAATCCTCATCGGTGCTTAG
CTGTGACATCTCCGTGGACGACAAATACATTGTCACTGGCTCTGGGGATAAGAAGGCCACAGTTTATGAA
GTTATTTATTAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007005 unedited  
 NGGTGTTCAAATTTTCGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGCCGC  
 ATCTAAAACCAAGGATTTTCAGATACTCATTGCAGTTGTGGAGTTTAATCCCCTTTCTTAA  
 CCTCACTTCCCCTTGTCTATTGAATTGTGAATAGTCATTAACAACTGTGATACCAATC  
 TTCAGCTGTCTACTTGGAGAACATGGAATAAGCATACTTAACAGTGAAGAAGTCTTTA  
 ATTAGTATTATATCTGTAATATATTTATTTTGTAAAGAAGGCTTTCTAACAATGACT  
 GACTAAATAAAGCTGTCTGCTCCTGCATTGATAATGAAGGTGCGTTGTATTTGATACCCC  
 TCCCCCTTTTTTTGGCAAAGGAGGGGAAAGGAAGTTTAAAATAATTGATTTAAAATG  
 TCACTAAGTGTAGACTGATGACTGTATAGAGATGTGAAATGTATAATTACACATGGAAGC  
 AATATGTTGCTGTGTTGTTATTAGGTTTTTTTTGTTTTGTTTTCTACATCTTTAAAGA  
 CTTTTGGAATTTGGCTGAACAATTAGAACAACAGGCCAACTCATACTCATTGGATC  
 TATTTAGACAACGTTAACCAATATATCTATAGCTTTAGATTATATTCGATAAAAGTAATT  
 GGACTTTTTTTCTTTTTGACTCATTGACAAGTCTTTGTAATATGTTTTAGTTCCC  
 TTTTTTTGTTGTATTATAGGCAGATGAACAAATTAATTTGGCCTCAAAGAGAGAACTTA  
 CTCCTTCTGNATATTTTGGCCACATTTCTTTGCAAAGGAGAATATATCTTTAGTCA  
 GTTNTGNTGNTATGAGAACTATGGGTTATTTGTGGCATGCTCTTTGGAGCTGCACAG  
 T

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007005 unedited  
 GACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAGAAGTTATTTATGT  
 TTAATGCTTAAAAGTCTGAATTCACAAACAATCTACCATTATAGAAGTACTGGTGGTCAA  
 TACAATGCATTAGAACTATGTACAACGCACAGTTTAGTATCAAAATCTTTCTACTGTGA  
 GAGTTTTACGAAACTGTTAATGACATCAAACACTAAGCACTTAAGACACCATTTTTTTTT  
 TTTCTGCTACCACATTAGGAACGTCATGGACAGTCCATTTCAACTTGCAGCATCCATCC  
 ATTTCTAGTATGAAATTAAGTAATTTTCTACTTATACAATAAAGTATATCTACACGGTTC  
 TTTTGATTTTGATCCATAGCAGCAAAGGCACTGTACATCAGCAGATCCACAGACTAAAA  
 GATTTTTAAAGCATTCAAACAAAAAATAAATAAAAAAAGAAGTCACATATTATAGTTTAA  
 AGCAACAACAACAACATAAAAGATAACACAATGTTTCTGGCACAATGGCACAGCCTGTGT  
 CCATTTAGGGACATCCAATAAGACATGGAAGAACCAGGAGGTAAGAAAGCAAGTCCCT  
 CATCCCGAGAGAGTCCATTCTTTGTGTTTTTTCAGAGGGAGGGCTCTGCAACCCCTCT  
 GCTGTCTTGTGTTGTAAGACTTACTTTGACAGAGTGGGGATTCTCCATAACTGGGC  
 AGCTCCCAAAAACATGCCAAAAATACCCCTTATTTTCTACATAACAAAAGTCTTAAG  
 AATTATTTTTTTCTTTTGCAAAAAAGTTGGCAAAATCCCAGAGGGGATTAATTTCT  
 CTTTTGAGGGCAAAATTAATTTGTTACTGCTTTTATAACACCAAAAAGGGGACTTA  
 AAATAATTTCCAAGGCCCTTGTCATGGATCAAAGAAAAAAGTCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007005

**Insert Size:**

1600 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.

**RefSeq:** [NM\\_007005.1](#), [NP\\_008936.1](#)

**RefSeq Size:** 5078 bp

**RefSeq ORF:** 255 bp

**Locus ID:** 7091

**UniProt ID:** [Q04727](#)

**Cytogenetics:** 9q21.31

**Protein Families:** Transcription Factors

**Gene Summary:** Transcriptional corepressor that binds to a number of transcription factors. Inhibits the transcriptional activation mediated by PAX5, and by CTNNB1 and TCF family members in Wnt signaling. The effects of full-length TLE family members may be modulated by association with dominant-negative AES. Essential for the transcriptional repressor activity of SIX3 during retina and lens development and for SIX3 transcriptional auto-repression (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 3 which is shorter than 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.