

Product datasheet for **RC239364**

TLE4 (NM_001282753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLE4 (NM_001282753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLE4
Synonyms:	BCE-1; BCE1; E(spl); E(spl); ESG; ESG4; Grg-4; GRG4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239364 representing NM_001282753
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTTCGCGACCTGAGCAAGATGTACCCGACAGACACCCGGCACCGCATCAGCCTGCTCAACCCT
TTAAATTTACAATTTCCGAATCCTGTGATCGGATTAAGGAAGAGTTTCAGTTTTTACAGGCTCAATACCA
CAGTCTGAAGCTGGAATGTGAGAACTCCGCAAGTGAAGACAGAGATGCAGCGCATTATGTCATGTAT
TATGAAATGTCCTATGGGTTGAATATAGAAATGCACAAGCAGGCAGAGATTGTCAAGAGGCTGAATGCTA
TCTGTGCACAAGTCATTCTTTCTGTCCCAAGAGCACCAGCAACAAGTGGTGCAGGCTGTGGAACGGGC
CAAGCAGGTGACCATGGCAGAACTGAACGCCATCATTGGGCAACAACCCAGGCCAGCATTATACAT
GGACATGGTCTCCCCGTACCTCTGACTCCACACCCTTCAGGGCTCCAGCCCCCTGCCATTCCACCCATCG
GTAGCAGTGCCGGGCTTCTGGCCCTCTCCAGTGTCTAGGAGTCAAGTCCCATCTTCCAATTAAGATGA
GAAGAAGCACCATGACAATGATACCAAAGAGACAGAGACTCCATCAAGAGCTCTTCAGTATCCCCATCA
GCCAGTTTCCGAGGTGCTGAGAAGCACAGAACTCCGAGACTACTCCTCAGAGAGCAAAAAGCAGAAAA
CTGAAGAAAAGGAAATTGCAGCTCGTTATAATGAAAAATCTACTACTCCCGTCTCAAAGTCCAATACCCC
TACTCCACGAACTGATGCGCCACCCAGGCAGTAACTCTACTCCCGATTGAGGCTGTACCTGAAAAA
CCACCAGGAGTTGACCCCTTGGCCCTCAAGCCTAAGGACCCCAATGGCAGTACCTGTCCATATCAAACCT
CATTTGGGATTGTGCCCCATGCTGGAATGAACGGAGAGCTGACCAGCCCCGGAGCGGCCTACGCTGGGCT
CCACAACATCTCCCTCAGATGAGCGCAGCTGCTGCCGCCCGCTGCTGCTGCCTATGGGAGATCA
CCAGTGGTGGGATTTGATCCACACCATCACATGCGTGTGCCAGCAATACCTCAAACCTGACAGGCATT
CAGGAGGAAAACAGCATACTCCTTCCATGTTAGCGCAGATGGTCAGATGCAGCCTGTCCCTTTTCCACC
CGACGCCCTCATCGACCTGGAATCCCCGGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTG
GTGTGCGCGGTGACCATCAGCAACCCACGAGACAGTGTACACGGGTGGGAAGGCTGCGTCAAGGTCT
GGGACATCAGCCACCCAGGCAATAAGAGTCTGTCTCCAGCTCGACTGTCTGAACAGGGATAACTACAT
CCGTTCTGCAGATTGCTCCCTGATGGTGCACCCTAATTGTTGGAGGGGAAGCCAGTACTTTGTCCATT
TGGGACCTGGCGGCTCCAACCCACGCATCAAGGCAGAGCTGACATCCTCGGCCCCCGCTGCTATGCC
TGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCATGCTGCAGCGACGGCAACATCGCTGTGTGGGATCT
GCACAACCAGACCTTGGTGAAGCAATCCAGGGCCACACAGATGGAGCCAGCTGTATTGACATTTCTAAT
GATGGCACAAGCTCTGGACAGGTGGTTTGGACAACACGGTCAGGTCTGGGACCTGCGCGAGGGGCGGC
AGCTGCAGCAGCAGACTTCACCTCCAGATCTTTTCTCTGGGCTACTGCCAACTGGAGAGTGGCTTGC
AGTGGGGATGGAGAACAGCAATGTGGAAGTTTGCATGTACCAAGCCAGACAAATACCAACTACATCTT
CATGAGAGCTGTGTGCTGTGCTCAAGTTTGGCCATTGTGGCAAATGGTTTGAAGCACTGGAAAGGACA
ACCTTCTGAATGCCTGGAGAACCTTATGGGGCCAGTATATTCCAGTCCAAAGAATCCTCATCGGTGCT
TAGCTGTGACATCTCCGTGGACGACAAATACATTGTCACTGGCTCTGGGGATAAGAAGGCCACAGTTTAT
GAAGTTATTTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239364 representing NM_001282753
 Red=Cloning site Green=Tags(s)

MIRDLSKMPQTRHPAPHQPAQPFKFTISESCDRIKEEFQLQAQYHSLKLECEKLAASEKTEMQRHYVMY
 YEMSYGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQVVQAVERAKQVTMAELNAIIGQQLQAQHLSH
 GHGLPVPLTPHPSGLQPPAIPPIGSSAGLLALSSALGGQSHLPKDEKHHNDNDHQDRDRDSIKSSSVSPS
 ASFRGAEKHRNSADYSSSEKKQKTEEKEIAARYNEKSTTPVSKSNTPTPRTDAPTPGSNSTPGLRPVPGK
 PPGVDPLASSLRTPMAVPCYPYTPFGIVPHAGMNGELTSPGAAYAGLHNI SPQMSAAAAAAAAAAAYGRS
 PVVGFDPHHMRVPAIPPNTLGIPGGKPAYSFHVSADGQMOPVFPFDALIGPGIPRHARQINTLNHGEV
 VCAVTISNPTRHVYTGKKGCVKVDISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTLSI
 WDLAAPTPIKAELTSSAPACYALAI SPDSKVCFSCCSDGNIAVWDLHNQTLVRQFQGHTDGASCIDISN
 DGTKLWTGGLDNTVRSWDLREGRLQQHDFTSQIFSLGYCPTGEWLAVGMENSNEVLHVTKPKDYQLHL
 HESCVLSLKFAHCGKWFVSTGKDNLLNAWRTPYGASIFQSKESSVLSCDISVDDKYIVTGGSDKKATVY
 EVIY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

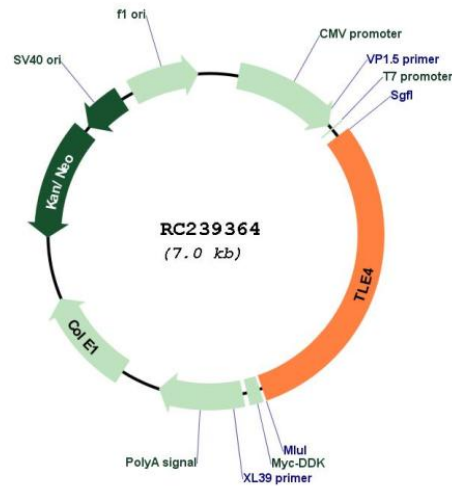
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001282753

ORF Size: 2112 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: [NM_001282753.1](#), [NP_001269682.1](#)

RefSeq Size: 4871 bp

RefSeq ORF: 2115 bp

Locus ID:	7091
UniProt ID:	Q04727
Cytogenetics:	9q21.31
Protein Families:	Transcription Factors
MW:	77 kDa
Gene Summary:	<p>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]</p>