

Product datasheet for **RC239471**

TLE4 (NM_001282749) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLE4 (NM_001282749) 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:

>RC239471 representing NM_001282749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTTCGCGACCTGAGCAAGATGTACCCGACAGACACCCGGCACCGCATCAGCCTGCTCAACCCCT
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 CAGTCTGAAGCTGGAATGTGAGAACTCGCCAGTGAGAAGACAGAGATGCAGCGCATTATGTCATGTAT
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Protein Sequence: >RC239471 representing NM_001282749
 Red=Cloning site Green=Tags(s)

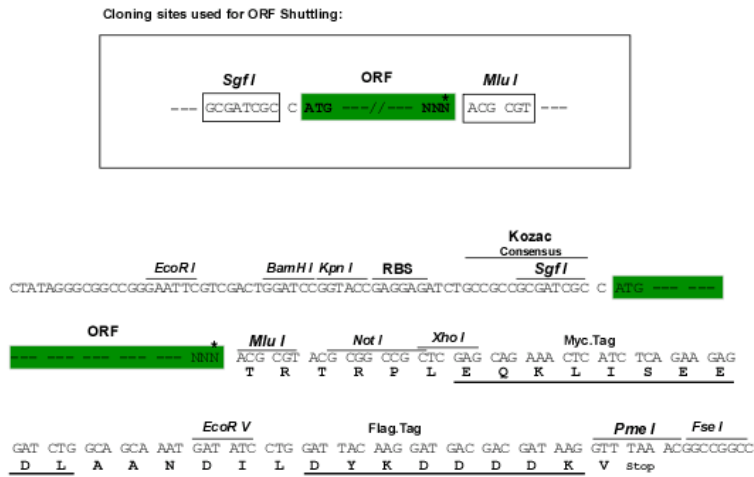
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 IVPHAGMNGELTSPGAAYAGLHNI SPQMSAAAAAAAAAYGRSPVVGDFPHHMRVPAIPP NLTGIPGG
 KPAYSFHVSADGQMPPVFPDPDALIGPGIPRHARQINTLNHGEVCAVTISNPTRHVVYTGKGCVKVWDI
 SHPGNKSPVSQLDCLNRDNYIRSCRLLPDGR TLIVGGEASTLSIWDLAAPT PRIKAE LTSSAPACYALAI
 SPDSKVCFSCCSDGNIAVWDLHNQTLVRQFQGHTDGASCIDI SNGTKLWTGGLDNTVRSWDLREGRLQ
 QHDFTSQIFSLGYCPTGEWLAVGMENSNEV LHVTKPKDYQLHLHESCVLSLKF AHCGKWFVSTGKDNL
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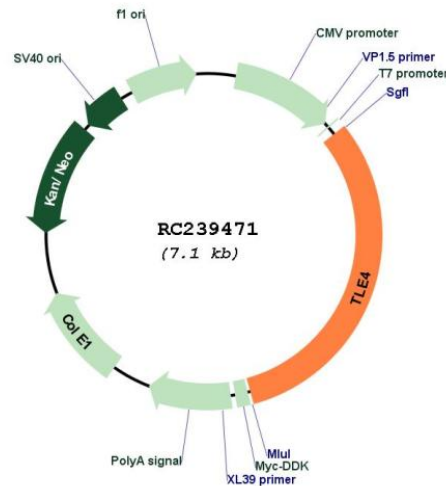
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001282749

ORF Size: 2244 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_001282749.1](#), [NP_001269678.1](#)

RefSeq Size: 5003 bp

RefSeq ORF: 2247 bp

Locus ID: 7091

UniProt ID: [Q04727](#)

Cytogenetics: 9q21.31

Protein Families: Transcription Factors

MW: 81.5 kDa

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]