

Product datasheet for **RC239209**

TLE4 (NM_001282760) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLE4 (NM_001282760) 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:

>RC239209 representing NM_001282760
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAACTGAACGCCATCATTGGGCAACAACCTCCAGGCCAGCATTTATCATATGGACATGGTCTCC
 CCGTACCTCTGACTCCACACCCTTCAGGGCTCCAGCCCCCTGCCATTCCACCCATCGGTAGCAGTGCCGG
 GCTTCTGGCCCTCTCCAGTGCTCTAGGAGTCACTCCCATCTTCCAATTAAGATGAGAAGAAGCACCAT
 GACAATGATCACCAAAGAGACAGAGACTCCATCAAGAGCTCTTCAATATCCCATCAGCCAGTTCCGAG
 GTGCTGAGAAGCACAGAACTCCGAGACTACTCCTCAGAGAGCAAAAAGCAGAAAAGTGAAGAAAAGGA
 AATTGCAGCTCGTTATGACAGCGATGGTGAAGAAAGTATGACAACCTGGTGGTTGACGTTTCCAATGAG
 GATCCATCTTCCCTCGAGGGAGCCAGCACATCCCCCAGAGAGAATGGCTAGACAAGACACGCCTGC
 TCAAGAAAAGATGCCCGATTAGTCCAGCCTCTATTGCATCTTCCAGCAGTACTCCCTCCTCCAAATCCAA
 AGAAGTTAGCCTTAATGAAAAATCTACTACTCCCGTCTCAAAGTCCAATACCCCTACTCCACGAAGTAT
 GCGCCACCCAGGCAGTAACTCTACTCCCGGATTGAGGCCTGTACCTGGAAAACACCAGGAGTTGACC
 CTTTGGCCTCAAGCCTAAGGACCCCAATGGCAGTACCTTGTCCATATCCAACTCCATTTGGGATTGTGCC
 CCATGCTGGAATGAACGGAGAGCTGACCAGCCCCGGAGCGGCCTACGCTGGGCTCCACAACATCTCCCT
 CAGATGAGCGCAGCTGCTGCCGCCGCGCTGCTGCTGCTGCTATGGGAGATCACCAGTGGTGGGATTTG
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 ATACTCCTCCATGTTAGCGCAGATGGTCAAGTGCAGCCTGTCCCTTTCCACCCGACGCCCTCATCGGA
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 TCAGCAACCCACGAGACAGTGTACACGGGTGGGAAGGGTGCCTCAAGGTCTGGGACATCAGCCACCC
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 TTCCAAGGTCTGCTTCTCATGCTGCAGCGACGGCAACATCGCTGTGTGGGATCTGCACAACCAGACCTTG
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 GGACAGGTGGTTTGGACAACACGGTCAGGTCTGGGACCTGCGGAGGGGGCGGACGCTGCAGCAGCACGA
 CTTACCTCCCAGATCTTTCTCTGGGCTACTGCCCAACTGGAGAGTGGCTTGCAGTGGGATGGAGAAC
 AGCAATGTGGAAGTTTGCATGTCACCAAGCCAGACAAAATACCAACTACATCTTTCATGAGAGCTGTGTGC
 TGTGCTCAAGTTTGCCATTGTGGCAAATGGTTTGAAGCACTGGAAAGGACAACCTTCTGAATGCCTG
 GAGAACACCTTATGGGGCCAGTATATTCCAGTCCAAAGAATCCTCATCGGTGCTTAGCTGTGACATCTCC
 GTGGACGACAAATACATTGCTACTGGCTCTGGGATAAGAAGGCCACAGTTTATGAAGTTATTTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239209 representing NM_001282760
 Red=Cloning site Green=Tags(s)

MAELNAIIGQQLQAQHL SHGHGLPVPL TPHP SGLQPPAIPPIGSSAGLLALSSALGGQSHLPKDEKHH
 DNDHQRRDRDSIKSSSVSPSASFRTGAEKHRNSADYSSESKKQKTEEKEIAARYSDGEEKSDDNLVVDVSN
 DPSSPRGSPAHS PRENLDKTRLLKKDAPISPAIASSSTPSSKSKELSLNEKSTTPVSKSNTPTPRTD
 APTPGNSSTPGLRPVPGKPPGVDP LASSLRTPMAVPCPYPTPFGIVPHAGMNGELTSPGAAAYAGLHNISP
 QMSAAAAAAAAAAYGRSPVVGFDPHHMRVPAIPPNLTGIPGGKPAYSFHVSADGQMOPVFPD DALIG
 PGIPRHARQINTLNHGEVVCAVTISNPTRHYVTGGKGCVKVWDI SHPGNKSPVSQLDCLNRDNYIRSCRL
 LPDGRTLIVGGEASTLSIWDLAAPTPIKAELTSSAPACYALAI SPDSKVCFSCCSDGNI AVWDLHNQTL
 VRQFQGH TDGASCIDISNDGTLWTGGLDNTVRSWDLREGRQLQHQHFTSQIFSLGYCPTGEWLAVGMEN
 SNVEVLHVTKPKYQLHLHESC VLSLKF AHCWKWFVSTGKDNLLNAWRTPYGASIFQSKESSVLSCDIS
 VDDKYIVTGS GDKKATVYEVIY

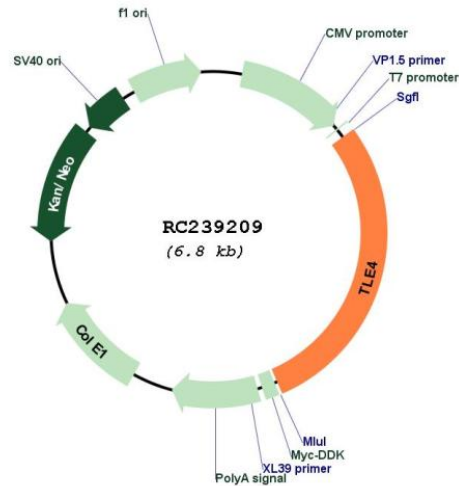
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282760

ORF Size: 1956 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_001282760.1](#), [NP_001269689.1](#)

RefSeq Size: 5173 bp

RefSeq ORF: 1959 bp

Locus ID: 7091

Cytogenetics: 9q21.31

Protein Families: Transcription Factors

MW: 69.9 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]