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Product datasheet for RC227899

TLE2 (NM_001144762) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLE2 (NM_001144762) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLE2
Synonyms:	ESG; ESG2; GRG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC227899 representing NM_001144762
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGACATTATGTCATGTATTATGAGATGTCGTACGGGCTCAACATTGAAATGCATAAGCAGGCGG
AGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTATCCCCTTCCTGACCCAGGAGCATCAGCAGCA
GGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGAGCTGAACAGCCTCATCGGGAGTGCA
TCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGA
GAGCAGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGT
GGACGAGGACCAACCCTCAGAGCCCCCCAGCCCGGCTACCACCCCCTGCGGAAAGGTACCCATCTGCATT
CCTGCCCGTCGGGACCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGGCTCACCGCTGCCTAGAG
CCAAGGAGCTCATCCTGAATGACCTTCCCGCCAGCACTCCTGCCTCCAAATCCTGTGACTCCTCCCCGCC
CCAGGACGCTTCCACCCCCGGGCCCAGCTCGGCCAGTCACCTCTGCCAGCTTGCTGCCAAGCCAGCACCT
TCCACGGACAGCGTCGCCCTGAGGAGCCCCCTGACTCTGTCCAGTCCCTTCACCACGTCCTTCAGCCTGG
GCTCCCACAGCACTCTCAACGGAGACCTCTCCGTGCCCAGCTCCTACGTCAGCCTCCACCTGTCCCCCCA
GGTCAGCAGCTCTGTGGTGTACGGACGCTCCCCCGTGATGGCATTTGAGTCTCATCCCCATCTCCGAGGG
TCATCCGTCTCTTCCTCCCTACCCAGCATCCCTGGGGGAAAGCCGGCCTACTCCTTCCACGTGTCTGCGG
ACGGGCAGATGCAGCCGGTTCCCTTCCCCTCGGATGCACTGGTAGGCGCGGGCATCCCGCGGCACGCCCG
GCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTCACCATCAGCGGCTCCACACAGCATGTG
TACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGACGCCCGTGGCCC
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CGTGGGCGGTGAGGCCAGCACCTTGTCCATTTGGGACCTGGCGGCGCCCACCCCCCGTATCAAGGCCGAG
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GTGCGCTGCTGGGACCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCCAGATTTTCTCCC
TGGGCCACTGCCCTAACCAGGACTGGCTGGCGGTCGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGT
CCGCAAGCCGGAGAAATACCAGCTGCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTTGCCTCCTGC
GGACGGTGGTTTGTGAGCACCGGGAAGGACAACCTGCTCAACGCCTGGAGGACGCCGTACGGGGCCAGCA
TTTTCCAGTCCAAGGAGTCGTCCTCAGTCCTGAGTTGTGACATCTCCAGAAATAACAAATACATCGTGAC
AGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGTCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227899 representing NM_001144762
Red=Cloning site Green=Tags(s)

MQRHYVMYYEMSYGLNIEMHKQAEIVKRLSGICAQIIPFLTQEHQQQVLQAVERAKQVTVGELNSLIGSA
SPSPPESLVEEERPSGPGGGGKQRADEKEPSGPYESDEDKSDYNLVVDEDQPSEPPSPATTPCGKVPICI
PARRDLVDSPASLASSLGSPLPRAKELILNDLPASTPASKSCDSSPPQDASTPGPSSASHLCQLAAKPAP
STDSVALRSPLTLSSPFTTSFSLGSHSTLNGDLSVPSSYVSLHLSPQVSSSVVYGRSPVMAFESHPHLRG
SSVSSSLPSIPGGKPAYSFHVSADGQMQPVPFPSDALVGAGIPRHARQLHTLAHGEVVCAVTISGSTQHV
YTGGKGCVKVWDVGQPGAKTPVAQLDCLNRDNYIRSCKLLPDGRSLIVGGEASTLSIWDLAAPTPRIKAE
LTSSAPACYALAVSPDAKVCFSCCSDGNIVVWDLQNQTMVRQFQGHTDGASCIDISDYGTRLWTGGLDNT
VRCWDLREGRQLQQHDFSSQIFSLGHCPNQDWLAVGMESSNVEILHVRKPEKYQLHLHESCVLSLKFASC
GRWFVSTGKDNLLNAWRTPYGASIFQSKESSSVLSCDISRNNKYIVTGSGDKKATVYEVVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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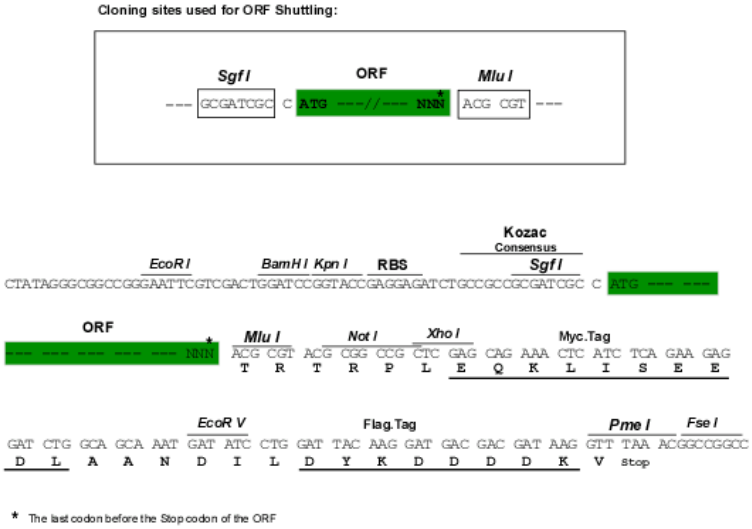
Chromatograms: https://cdn.origene.com/chromatograms/mk8070_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001144762

ORF Size: 1863 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001144762.1, NP_001138234.1

RefSeq ORF: 1866 bp

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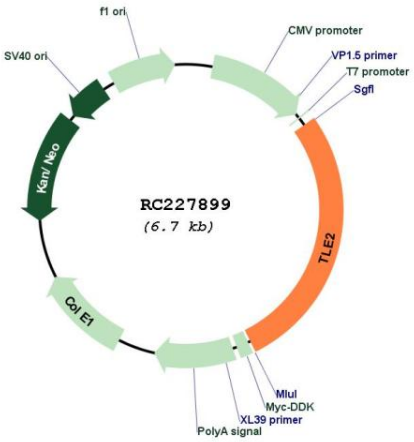
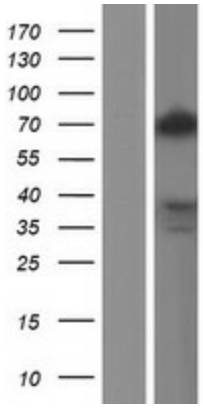
Locus ID:	7089
UniProt ID:	Q04725
Cytogenetics:	19p13.3
Protein Families:	Transcription Factors
MW:	66.5 kDa
Gene Summary:	Transcriptional corepressor that binds to a number of transcription factors. Inhibits the transcriptional activation mediated by CTNNB1 and TCF family members in Wnt signaling. The effects of full-length TLE family members may be modulated by association with dominant-negative AES (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227899



Western blot validation of overexpression lysate (Cat# [LY428507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227899 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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