

## Product datasheet for **RG239600**

### **TLE4 (NM\_001282748) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TLE4 (NM_001282748) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLE4
Synonyms:	BCE-1; BCE1; E(spl); E(spl); ESG; ESG4; Grg-4; GRG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239600 representing NM\_001282748.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATTCGCGACCTGAGCAAGATGTACCCGCAGACCAGACACCCGGCACCGCATCAGCCTGCTCAACCC
TTTAAATTTACAATTTCCGAATCCTGTGATCGGATTAAGGAAGAGTTTCAGTTTTTACAGGCTCAATAC
CACAGTCTGAAGCTGGAATGTGAGAAACTCGCCAGTGAGAAGACAGAGATGCAGCGGCATTATGTTCATG
TATTATGAAATGTCTATGGGTTGAATATAGAAATGCACAAGCAGGCAGAGATTGTCAAGAGGCTGAAT
GCTATCTGTGCACAAGTCATTCTTTCTGTGCCAAGAGCACCAGCAACAAGTGGTGCAGGCTGTGGAA
CGGGCCAAGCAGGTGACCATGGCAGAACTGAACGCCATCATTGGGCAACAACCTCCAGGCCAGCATTTA
TCACATGGACATGGTCTCCCGTACCTCTGACTCCACACCCTTCAGGGCTCCAGCCCCCTGCCATTCCA
CCCATCGTAGCAGTGCCGGCTTCTGGCCCTCTCCAGTCTCTAGGAGGTCAGTCCCATTCTCCAATT
AAAGATGAGAAGAAGCACCATGACAATGATCACAAAGAGACAGAGACTCCATCAAGAGCTTTCAGTA
TCCCCATCAGCCAGTTTCCGAGGTGCTGAGAAGCACAGAACTCCGCAGACTACTCTCAGAGAGCAAAA
AAGCAGAAAAGTGAAGAAAAGGAAATTCAGACTCGTTATGACAGCGATGGTGAGAAAAGTATGACAAC
TTGGTGGTTGACGTTTCCAATGAGGATCCATCTTCCCCTCGAGGGAGCCAGCACATTCCCCAGAGAG
AATGGCCTAGACAAGACACGCCTGCTCAAGAAAGATGCCCGATTAGTCCAGCCTCTATTGCATCTTCC
AGCAGTACTCCCTCTCCAAATCCAAAGAACTTAGCCTTAAGAGGGATATGGGAAATGAGTGAACA
CGTCTTAGCGAAGATGAACAATGCACATTTGGGTTACAGAGATGGTTTTGTGCCTGTGGTTTATGAAT
GAAAAATCTACTACTCCCGTCTCAAAGTCCAATACCCCTACTCCACGAACTGATGCGCCACCCAGGC
AGTAACTCTACTCCCGATTGAGGCCTGTACCTGGAAAACCACCAGGAGTTGACCCTTTGGCCTCAAGC
CTAAGGACCCCAATGGCAGTACCTTGCCATATCCAATCCATTTGGGATTGTGCCCATGCTGGAATG
AACGGAGAGCTGACCAGCCCGGAGCGGCTACGCTGGGCTCCACAACATCTCCCCTCAGATGAGCGCA
GCTGCTGCCGCCCGCTGCTGCTGCTGCCTATGGGAGATCACCAAGTGGTGGGATTTGATCCACACCAT
CACATGCGTGTGCCAGCAATACCTCCAAACCTGACAGGCATTCCAGGAGGAAAACCAGCATACTCTTC
CATGTTAGCGCAGATGGTCAGATGCAGCCTGTCCCTTTTCCACCCGACGCCCTCATCGGACCTGGAATC
CCCCGGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCGGTGACCATCAGCAAC
CCCACGAGACACGTGTACACGGGTGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCAGGCAAT
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CCACGCATCAAGGCAGAGCTGACATCCTCGGCCCCCGCTGCTATGCCCTGGCCATCAGCCCCGATTCC
AAGGTCTGCTTCTCATGCTGCAGCGACGCAACATCGCTGTGTGGGATCTGCACAACCAGACCTTGGTG
AGGCAATTCAGGGCCACACAGATGGAGCCAGCTGTATTGACATTTCTAATGATGGCACCAAGCTCTGG
ACAGGTGGTTTGGACAACACGGTCAGGTCTGGGACCTGCGCGAGGGGCGGCAGCTGCAGCAGCACGAC
TTCACCTCCAGATCTTTTCTCTGGGCTACTGCCAACTGGAGAGTGGCTTGCAGTGGGGATGGAGAAC
AGCAATGTGGAAGTTTGCATGTACCAAGCCAGACAAAATACCAACTACATCTTCATGAGAGCTGTGTG
CTGTCGCTCAAGTTTGGCCATTGTGGCAAATGGTTTGAAGCACTGGAAGGACAACCTTCTGAATGCC
TGGAGAACACCTTATGGGGCCAGTATATCCAGTCCAAAGAATCCTCATCGGTGCTTAGCTGTGACATC
TCCGTGGACGACAAATACATTGTCACCTGGCTCTGGGGATAAGAAGGCCACAGTTTATGAAGTTATTTAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG239600  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MIRDLSKMYQPQTRHPAPHQPAQPFKFTISESCDRIKEEFQFLQAQYHSLKLECEKLAASEKTEMQRHYVM
YYEMSYGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQVQVQAVERAKQVTMAELNAIIGQQLAQHL
SHGHGLPVPLTPHPSGLQPPAIPPIGSSAGLLALSSALGGQSHLPKDEKHKHDNDHQDRDRDSIKSSSV
SPSASFSGAEGKHRNSADYSSESKKQKTEEKEIAARYDSDGEKSDNLLVVDVSNEDPSSPRGSPAHSPRE
NGLDKTRLLKKDAPISPAIASSSSTPSSKSKELSLKRD MGKLESETRLSEDEQCTLGLQRWFCRLWFMN
EKSTTPVSKSNTPTPRTDAPTPGSNSTPGLRPVPGKPPGVDPLASSLRTPMAVPCPYPTPFGIVPHAGM
NGELTSPGAAYAGLHNI SPQMSAAAAAAAAAAYGRSPVVGFDPHHMRVPAIPPNTGIPGGKPAYSF
HVSADGQMOPVFPFDALIGPGIPRHARQINTLNHGEVVCVAVTISNPTRHYVTGGKGCVKVWDISHPGN
KSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTLSIWDLAAPTPIKAELTSSAPACYALAI SPDS
KVCFCSSDGNIAVWDLHNQTLVRQFQGH TDGASCIDISNDGTKLWTGGLDNTVRSWDLREGRQLQQHD
FTSQIFSLGYCPTGEWLAVGMENSNEVLHVTKPKDYQLHLHESC VLSLKFAHCGKWFVSTGKDNL LNA
WRTPYGASIFQSKESSVLSCDISVDDKYIVTGS GDKKATVYEVYIY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001282748

ORF Size: 2415 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](#)

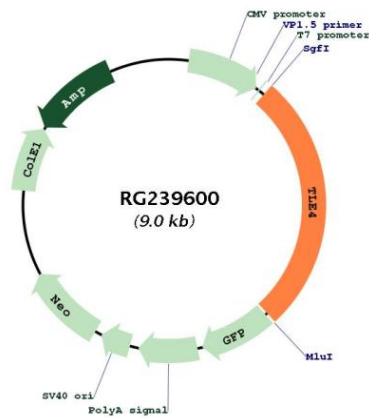
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

**RefSeq:** [NM\\_001282748.1, NP\\_001269677.1](#)  
**RefSeq Size:** 5174 bp  
**RefSeq ORF:** 2418 bp  
**Locus ID:** 7091  
**UniProt ID:** [Q04727](#)  
**Cytogenetics:** 9q21.31  
**Protein Families:** Transcription Factors  
**MW:** 88.2 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]

**Product images:**



Circular map for RG239600