

Product datasheet for **RG238416**

TFE3 (NM_001282142) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFE3 (NM_001282142) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFE3
Synonyms:	bHLHe33; RCCP2; RCCX1; TFEA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238416 representing NM_001282142. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGTCATCTTCTTCATCGAGGGTCTTGTGCGGCAGCAGCTAATGCGGGCCAGGCGCAGGAGCAG
GAGAGGCGTGAGCGTCGGGAACAGGCGCCGCGGCTCCCTTCCCCAGTCTGCACCTGCCTCTCCTGCC
ATCTCTGTGGTTGGCGTCTCTGCTGGGGCCACACATTGAGCCGTCCACCCCTGCTCAGGTGCCAGG
GAGGTGCTCAAGGTGCAGACCCATCTGGAGAACCAACGCCTACCACCTGCAGCAGGCGCGCCGGCAG
CAGGTGAAACAGTACCTGTCCACCACACTCGGGCCCAAGCTGGCTTCCCAGGCCCTACCCACCCCGC
GGCCCCGAAGTCCCAGCCACTGCCTGCCCTGAGGCTGCCACACTACCGGCCCCACAGGCAGTGCG
CCCAACAGCCCCATGGCGCTGCTCACCATCGGGTCCAGCTCAGAGAAGGAGATTGATGATGTCATTGAT
GAGATCATCAGCCTGGAGTCCAGTTACAATGATGAAATGCTCAGCTATCTGCCCGGAGGCACCACAGGA
CTGCAGCTCCCCAGCACGCTGCCTGTGTGAGGGAATCTGCTTGTGTACAGTAGTCAAGGCGTGGCC
ACACCAGCCATCACTGTGAGCAACTCCTGCCAGCTGAGCTGCCCAACATCAAACGGGAGATCTCTGAG
ACCGAGGCAAAGGCCCTTTTGAAGGAACGGCAGAAGAAAGACAATCACAACCTAATTGAGCGTCGCAGG
CGATTCAACATTAACGACAGGATCAAGGAACGGGCACTCTCATCCCTAAGTCCAGTGACCCGGAGATG
CGCTGGAACAAGGCACCATCCTGAAGGCCTCTGTGATTATATCCGCAAGCTGCAGAAGGAGCAGCAG
CGCTCCAAGACCTGGAGAGCCGCGAGCGATCCCTGGAGCAGGCCAACCCGAGCCTGCAGCTCCGAATT
CAGGAACTAGAAGTGCAGGCCAGATCCATGGCCTGCCAGTACCTCCCACTCCAGGGCTGCTTTCCTTG
GCCACGACTTCGGCTTCTGACAGCCTCAAGCCAGAGCAGCTGGACATTGAGGAGGAGGGCAGGCCAGGC
GCAGCAACGTTCCATGTAGGGGGGGACCTGCCAGAATGCTCCCATCAGCAGCCCCCTGCACCCGCC
TCAGATGCCCTTCTGGACCTGCACTTCCAGCGACCACCTGGGGGACCTGGGAGACCCCTTCCACCTG
GGGCTGGAGGACATTCTGATGGAGGAGGAGGGGGTGGTGGGAGGACTGTCGGGGGTGCCCTGTCC
CCACTGCGGGTGCCTCCGATCCCCTGCTCTTTCAGTGTCCCCTGCTGTCTCCAAGGCCAGCAGCCGC
CGCAGCAGCTTCAGCATGGAAGAGGAGTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238416
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSSSSRVLLRQQLMRAQAQEERRERREQAAAAFPSPAPASPAISVVGVSAGGHTLSRPPPAQVPR
 EVLKVQTHLENPTRYHLQQARRQVKQYLSTTLGPKLASQALTPPPGPASAQPLPAPEAAHTTGPTGSA
 PNSPMALLTIGSSSEKEIDDVIDEIIISLESSYNDEMLSYLPGGTTGLQLPSTLPVSGNLLDVYSSQGVA
 TPAITVSNSCPaelPNIKREISETeAKALLKERQKKNHNLIERRRRFNINDRIKELGTLIPKSSDPEM
 RWNKGTILKASVDYIRKLQKEQQRSKDLESRQRSLQANRSLQLRIQELELQAQIHGLPVPPPTGLLSL
 ATTSASDSLKPEQLDIEEEGRPGAATFHVGGGPAQNAPHQPPAPPDALLDLHFPSDHLGDLGDPFHL
 GLEDILMEEEEGVVGGLSGGALSPLRAASDPLLSVSPAVSKASSRRSSFSMEEEES
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282142

ORF Size: 1410 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.

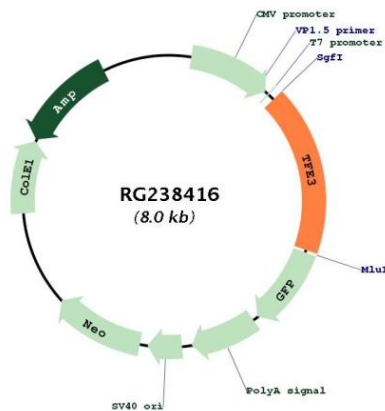
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001282142.2](#)

RefSeq Size: 3402 bp
RefSeq ORF: 1413 bp
Locus ID: 7030
UniProt ID: [P19532](#)
Cytogenetics: Xp11.23
Protein Families: Druggable Genome, Transcription Factors
MW: 51.1 kDa

Gene Summary: This gene encodes a basic helix-loop-helix domain-containing transcription factor that binds MUE3-type E-box sequences in the promoter of genes. The encoded protein promotes the expression of genes downstream of transforming growth factor beta (TGF-beta) signaling. This gene may be involved in chromosomal translocations in renal cell carcinomas and other cancers, resulting in the production of fusion proteins. Translocation partners include PRCC (papillary renal cell carcinoma), NONO (non-POU domain containing, octamer-binding), and ASPSCR1 (alveolar soft part sarcoma chromosome region, candidate 1), among other genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG238416