

Product datasheet for **RC234213**

TFEB (NM_001271944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFEB (NM_001271944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TFEB
Synonyms:	ALPHATFEB; BHLHE35; TCFEB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234213 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCACGCATAGGTTGCGCATGCAGCTCATGCGGGAGCAGGCCAGCAGGAGGAGCAGCGGGAGC
 GCATGCAGCAACAGGCTGTCATGCATTACATGCAGCAGCAGCAGCAGCAACAGCAGCAGCTCGGAGG
 GCCGCCACCCCGCCATCAATACCCCGTCCACTTCCAGTCGCCACCACCTGTGCCTGGGGAGGTGTTG
 AAGGTGCAGTCTACCTGGAGAATCCCACATCCTACCATCTGCAGCAGTCGCAGCATCAGAAGGTGCGGG
 AGTACCTGTCCGAGACCTATGGGAACAAGTTTGTGCCCCACATCAGCCCAGCCAGGGCTCTCCGAAACC
 CCCACCAGCCGCCTCCCAGGGGTGCGAGCTGGACACGTGCTGTCTCCTCCGCTGGCAACAGTGTCTCC
 AATAGCCCCATGGCCATGCTGCACATTGGCTCAAACCTGAGAGGGAGTTGGATGATGTCATTGACAACA
 TTATGCGTCTGGACGATGCTTGGCTACATCAATCCTGAAATGCAGATGCCAACACGCTACCCCTGTC
 CAGCAGCCACCTGAATGTGTACAGCAGCAGCCCCAGGTCACAGCCTCCCTGGTGGCGTACCAGCAGC
 TCTGCCCCGCGACCTGACCCAGAAGCGAGAGCTCACAGATGCTGAGAGCAGGGCCCTGGCCAAGGAGC
 GGCAGAAGAAAGACAATACAACCTAATTGAAAGGAGACGAAGTTCAACATCAATGACCGCATCAAGGA
 GTTGGGAATGCTGATCCCCAAGGCCAATGACCTGGACGTGCGCTGGAACAAGGGCACCATCCTCAAGGCC
 TCTGTGGATTACATCCGGAGGATGCAGAAGGACCTGCAAAAGTCCAGGGAGCTGGAGAACCCTCTCGCC
 GCCTGGAGATGACCAACAAGCAGCTCTGGCTCCGTATCCAGGAGCTGGAGATGCAGGCTCGAGTGCACGG
 CCTCCCTACCACCTCCCGTCCGGCATGAACATGGCTGAGCTGGCCAGCAGGTGGTGAAGCAGGAGCTG
 CCTAGCGAAGAGGGCCCAGGGGAGGCCCTGATGCTGGGGGTGAGGTCCCTGACCCTGAGCCACTGCCAG
 CTCTGCCCCCGCAAGCCCGCTGCCCTGCCACCCAGCCACCATCCCCATTCCATCACCTGAGCTTCCAG
 CCACAGCCTGAGCTTGGGGGCAGGGAGGACGAGGGTCCCCGGGCTACCCGAACCCCTGGCGCCGGGG
 CATGGCTCCCCATTCCCCAGCCTGTCCAAGAAGGATCTGGACCTCATGCTCCTGGACGACTCACTGCTAC
 CGCTGGCCTCTGATCCACTTCTGTCCACCATGTCCCCGAGGCCCTCAAGGCCAGCAGCCGCCGGAGCAG
 CTTACGATGGAGGAGGGCGATGTGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234213 protein sequence
 Red=Cloning site Green=Tags(s)

MASRIGLRMQLMREQAQEEQRERMQQQAVMHYMQQQQQQQQLGGPPTPAINTPVHFQSPPPVPGEVL
 KVQSYLENPTSYHLQSQHQKQVREYLSETYGNKFAAHISPAQGSPPKPPAASPGVRAGHVLSSSAGNSAP
 NSPMAMLHIGSNPERELDDVIDNIMRLDDVLGYINPEMQMPNTLPLSSHLNVYSSDPQVTASLVGVTSS
 SCPADLTQKRELDAESRALAKERQKKNHNLIERRRFNINDRIKELGMLIPKANDLDVRWNKGTILKA
 SVDYIRRMQKDLQKSRELENHSRREMTNKQLWLRIQELEMQARVHGLPTTSPSGMNAELAQQVVKQEL
 PSEEGPGEALMLGAEVPDPEPLPALPPQAPLPLPTQPPSPFHHLDFSHLSFGGREDEGPPGYPEPLAPG
 HGSPFPSLSKKDLMLLDDSLPLASDPLLSTMSPEASKASSRRSSFMEEGDVL

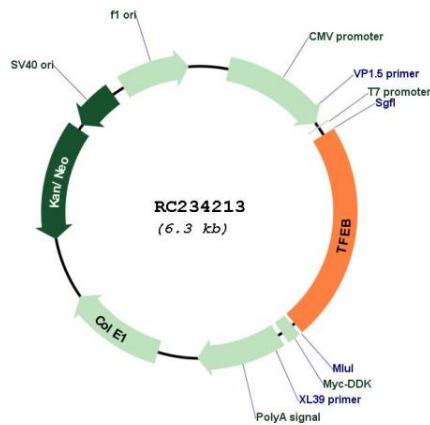
TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cytogenetics:	6p21.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	52.9 kDa
Gene Summary:	<p>Transcription factor that specifically recognizes and binds E-box sequences (5'-CANNTG-3'). Efficient DNA-binding requires dimerization with itself or with another MiT/TFE family member such as TFE3 or MITF. In association with TFE3, activates the expression of CD40L in T-cells, thereby playing a role in T-cell-dependent antibody responses in activated CD4(+) T-cells and thymus-dependent humoral immunity. Specifically recognizes and binds the CLEAR-box sequence (5'-GTCACGTGAC-3') present in the regulatory region of many lysosomal genes, leading to activate their expression. It thereby plays a central role in expression of lysosomal genes. Acts as a positive regulator of autophagy by promoting expression of genes involved in autophagy. Specifically recognizes the gamma-E3 box, a subset of E-boxes, present in the heavy-chain immunoglobulin enhancer. Plays a role in the signal transduction processes required for normal vascularization of the placenta. Regulates lysosomal positioning in response to nutrient deprivation by promoting the expression of PIP4P1 (PubMed:29146937). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC234213