

Product datasheet for **RG232366**

TFEC (NM_001244583) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFEC (NM_001244583) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFEC
Synonyms:	bHLHe34; hTFEC-L; TC FEC; TFE-C; TFEC-L; TFEC L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232366 representing NM_001244583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAAGGAGAAAGAGAAAACCATTGCTATTGTGAAGGTTATAGACACTTCAAAGTTAAACTGTTAT
CTGGAAGTATTTGGATGTGTATAGCGGTGAACAAGGAATTTACCAATTAACATGGGGCTTACAAGTGC
TTCTTGCCAAGTAGTCTACCAATGAAAAGAGAAATTACAGAACTGACACTAGAGCTTTAGCAAAAGAG
AGACAAAAAAGGACAACCACAACCTCATTGAAAGAAGAAGAAGGTATAATTAATTACCGAATCAAGG
AGCTTGGCACTCTTATTCAAAGTCTAATGATCCTGATATGCGCTGGAACAAAGGAACCATTCTAAAAGC
ATCAGTGGAGTACATCAAGTGGCTACAAAAAGAACAACAGAGAGCCCGAGAATTGGAACACAGACAGAAG
AAATTAGAGCAGGCTAACAGGCGACTTCTACTTCGGATTACAGAACTAGAAATTCAGGCTCGTACTCATG
GTCTGCCAACCCCTGGCTTCACTTGGCACGGTTGATTTAGGTGCTCATGTCACCAACAGCAGAGCCATCC
TGAGCAGAATTCAGTAGACTATTGCCAACCACTGACTGTGTCTCAGGGGCCAAGCCCTGAGCTCTGTGAT
CAAGCTATAGCCTTTTCTGATCCTTTGTCATACTTCACAGATTTATCATTTAGTGCTGCATTGAAAGAGG
AACAAAGATTGGATGGCATGCTATTGGATGACACAATCTCTCCATTTGGAACAGATCCTCTGCTATCTGC
CACTTCCCCTGCAGTTTCAAAGAAAGCAGTAGGAGAAGTAGCTTTAGCTCAGATGATGGTGATGAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232366 representing NM_001244583
Red=Cloning site Green=Tags(s)

MMKEKEKTI AIVKVIDTSKLKLLSGSILDVYSGEQGISPINMGLTSASCPSSLPMKREITETDTRALAKE
 RQKKNHNLIERRRYINIRIKELGTLIPKSNPDMRWKGTILKASVEYIKWLQKEQQRARELEHRQK
 KLEQANRRLLRIQELEIQARTHGLPTLASLGTVDLGAHVTKQQSHPEQNSVDYCCQLTVSQGPSPELCD
 QAIAFSDPLSYFTDLFSFAALKEEQRLDGMLLDDTISPFGTPLL SATSPAVSKESRRSSFSSDDGDEL

TRTRPLE - GFP Tag - V

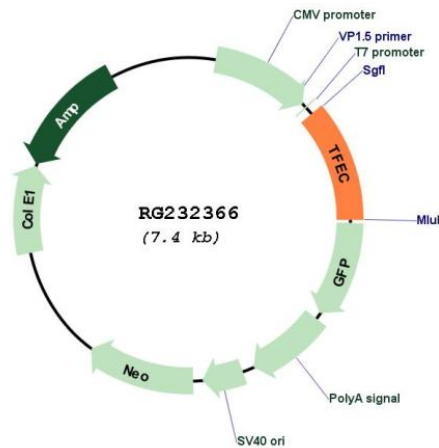
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001244583

ORF Size: 840 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:	<ol style="list-style-type: none">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_001244583.1 , NP_001231512.1
RefSeq Size:	6309 bp
RefSeq ORF:	843 bp
Locus ID:	22797
UniProt ID:	O14948
Cytogenetics:	7q31.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene encodes a member of the microphthalmia (MiT) family of basic helix-loop-helix leucine zipper transcription factors. MiT transcription factors regulate the expression of target genes by binding to E-box recognition sequences as homo- or heterodimers, and play roles in multiple cellular processes including survival, growth and differentiation. The encoded protein is a transcriptional activator of the nonmuscle myosin II heavy chain-A gene, and may also co-regulate target genes in osteoclasts as a heterodimer with microphthalmia-associated transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]