

Product datasheet for **RG214447**

FOX E3 (NM_012186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FOX E3
Synonyms:	AAT11; ASGD2; CTRCT34; FKHL12; FREAC8
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214447 representing NM_012186
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGCGCAGCGACATGGATCCGCCCGCCGCGTTCTCTGGCTTCCCTGCCCTGCCAGCGGTGCGCG
CGTCGGGGCGCCGCCGTCGCCGCTCGCAGGAGCCGAGCCAGGGCGGGAGCCAGAGGAGGCGGCGGCTGG
CCGCGGAGAGGCGGCCCCACGCCCGCGCCCGGGCGGGCGGCGGCGGCGGCCCTGCAGCGCGGG
AAGCCGCCCTACTCGTACATCGCGCTCATCGCCATGGCTCTGGCGCAGCCCCGGGCCCGCCCTCACGC
TGGCCGCCATCTACCGCTTCATCACCGAACGCTTTGCCTTCTACCGCGACAGCCCGCGCAAGTGGCAGAA
CAGCATCCGCCACAATCTCACGCTCAACGACTGCTTCGTCAAGGTGCCCGCGAGCCGGGCAACCCGGGC
AAGGGCAACTACTGGACGCTGGACCCCGCGGCCGAGACATGTTGACAAACGGCAGCTTCTGCGGCGCC
GCAAGCGCTTCAAGCGCGCCGAGCTGCCCGCGCACGCGGCCGCGGCCAGGGCCGCGCTCCCCTTCC
CTACGCGCCCTACGCGCCCGCGCCCGGCCCGCGCTGCTGGTGCCCGCGCTTCTGCCGACCGGGCCCC
TCGCCCGCCCGCGCTGTTTCAGCGTCGACAGCCTGGTGAACCTGCAGCCGGAGCTAGCGGGGCTGGGCG
CCCCGAGCGCCCTGCTGCGCCGCGCCGACGCCGCGAGCCGAGCCTTCCCGCCCTGCGCTGCCGCCG
CTCCCCGCACTCTACTCGCAGGTCCCGACCGCTGGTACTGCCCGCGACGCGCCCGGCCCGGCCCG
CTGCCCGCTGAGCCCTCTTGCCCTTGGCCGGGCGCGGACCGCTCTCGGCCCGCTCAGCCCTGGGGAGG
CCTACCTGAGGCAGCCGGGCTTCGCGTCGGGGCTGGAGCGCTACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG214447 representing NM_012186

Red=Cloning site Green=Tags(s)

MAGRSDMDPPAAFSGFPALPAVAPSGPPPSPLAGAEPGREPEEAAAAGRGEAAATPAPGPGRRRRRPLQRG
KPPYSYIALIAMALAHAPGRRRLTLAAIYRFITERFAFYRDSRQWQNSIRHNLTLNDCFVKVPREPNGP
KGNWYTLDPAAADMFDNGSFLRRRKRKRAELPAHAAAAPGPPLPFYAPYAPAGPALLVPPPSAGPGP
SPPARLFVSDSLVNLQPELAGLGAPEPPCCAAPDAAAAFPCCAAASPLYSQVPDRLVLPATRPGGP
LPAEPLLLALAGPAAALGPLSPGEAYLRQPGFASGLERYL

TRTRPLE - GFP Tag - V

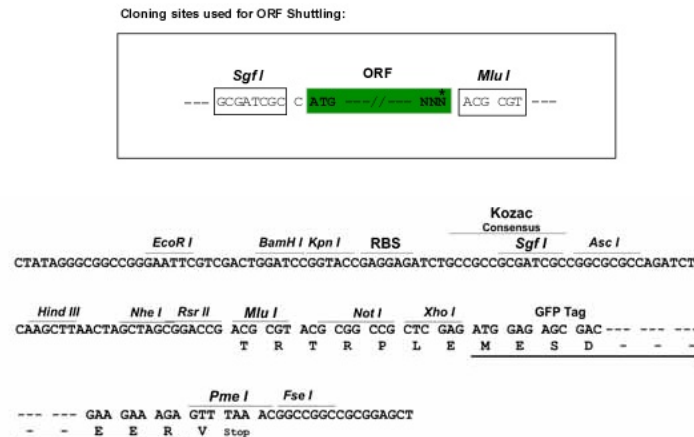
Chromatograms:

https://cdn.origene.com/chromatograms/ja1651_a09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_012186

ORF Size:

957 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_012186.3](#)

RefSeq Size: 2011 bp

RefSeq ORF: 960 bp

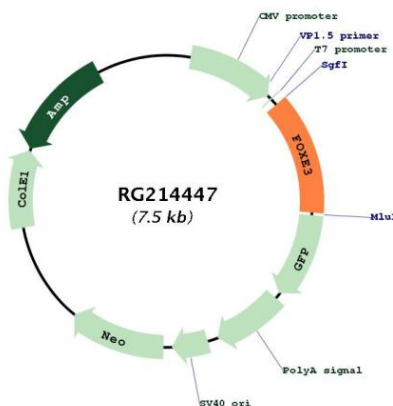
Locus ID: 2301

UniProt ID: [Q13461](#)

Cytogenetics: 1p33

Gene Summary: This intronless gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. The protein encoded functions as a lens-specific transcription factor and plays an important role in vertebrate lens formation. Mutations in this gene are associated with anterior segment mesenchymal dysgenesis and congenital primary aphakia. [provided by RefSeq, Dec 2009]

Product images:



Circular map for RG214447