

Product datasheet for RG218249

FOXE1 (NM_004473) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FOXE1 (NM_004473) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: FOXE1

Synonyms: FKHL15; FOXE2; HFKH4; HFKL5; NMTC4; TITF2; TTF-2; TTF2

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG218249 representing NM_004473

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCCCCTGCAGCGCGGGAAGCCGCCCTACAGCTACATCGCGCTCATCGCCATGGCCATCGCGCACGCGCCC GAGCGCCGCCTCACGCTGGGCGGCATCTACAAGTTCATCACCGAGCGCTTCCCCTTCTACCGCGACAACC CCAAAAAGTGGCAGAACAGCATCCGCCACAACCTCACACTCAACGACTGCTTCCTCAAGATCCCGCGCGA GGCCGGCCCGGGTAAGGGCAACTACTGGGCGCTTGACCCCAACGCGGAGGACATGTTCGAGAGCGGC AGCTTCCTGCGCCGCCACAGCGCTTCAAGCGCTCGGACCTCTCCACCTACCCGGCTTACATGCACGACG CGGCGGCTGCCGCAGCCGCCGCCGCCGCCGCCGCCGCCGCCATCTTCCCAGGCGCGCGTGCCCGC CGCGCGCCCCCTACCCGGGCGCCGTCTATGCAGGCTACGCGCCGCCGTCGCTGGCCGCCGCCCTCCA GTCTACTACCCCGCGGCGTCGCCCGGCCCTTGCCGCGTCTTCGGCCTGGTTCCTGAGCGGCCGCTCAGCC CACCACCGGCTACCAGCCCGCAGGCTGCACCGGGGCCCGGCCAACCCCTCCGCCTATGCGGCTGCC TACGCGGGCCCCGACGGCGCTACCCGCAGGGCGCCGGCAGTGCGATCTTTGCCGCTGCTGGCCGCCTGG CGGGACCCGCTTCGCCCCCAGCGGCGGCAGCAGTGGCGGCGTGGAGCCACGGTGGACTTCTACGGGCG CACGTCGCCCGGCCAGTTCGGAGCGCTGGGAGCCTGCTACAACCCTGGCGGGCAGCTCGGAGGGGCCAGT GCAGGCGCCTACCATGCTCGCCATGCTGCCGCTTATCCCGGTGGGATAGATCGGTTCGTGTCCGCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218249 representing NM_004473

Red=Cloning site Green=Tags(s)

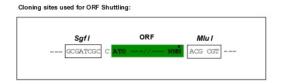
MTAESGPPPPQPEVLATVKEERGETAAGAGVPGEATGRGAGGRRKRPLQRGKPPYSYIALIAMAIAHAP ERRLTLGGIYKFITERFPFYRDNPKKWQNSIRHNLTLNDCFLKIPREAGRPGKGNYWALDPNAEDMFESG SFLRRRKRFKRSDLSTYPAYMHDAAAAAAAAAAAAAAAIFPGAVPAARPPYPGAVYAGYAPPSLAAPPP VYYPAASPGPCRVFGLVPERPLSPELGPAPSGPGGSCAFASAGAPATTTGYQPAGCTGARPANPSAYAAA YAGPDGAYPQGAGSAIFAAAGRLAGPASPPAGGSSGGVETTVDFYGRTSPGQFGALGACYNPGGQLGGAS AGAYHARHAAAYPGGIDRFVSAM

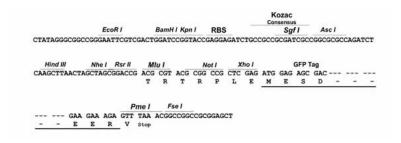
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_004473

ORF Size: 1119 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: <u>NM 004473.4</u>

 RefSeq Size:
 3473 bp

 RefSeq ORF:
 1122 bp

 Locus ID:
 2304

 UniProt ID:
 000358

 Cytogenetics:
 9q22.33

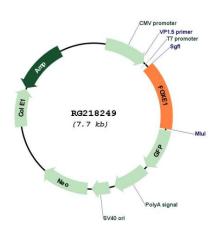
Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This intronless gene encodes a protein that belongs to the forkhead family of transcription

factors. Members of this family contain a conserved 100-amino acid DNA-binding 'forkhead' domain. The encoded protein functions as a thyroid transcription factor that plays a role in thyroid morphogenesis. Mutations in this gene are associated with the Bamforth-Lazarus syndrome, and with susceptibility to nonmedullary thyroid cancer-4. [provided by RefSeq,

Nov 2016]

Product images:



Circular map for RG218249