

Product datasheet for **RC209846**

FOXO3 (NM_001455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXO3 (NM_001455) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXO3
Synonyms:	AF6q21; FKHRL1; FKHRL1P2; FOXO2; FOXO3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC209846 representing NM_001455
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

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Protein Sequence: >RC209846 representing NM_001455
 Red=Cloning site Green=Tags(s)

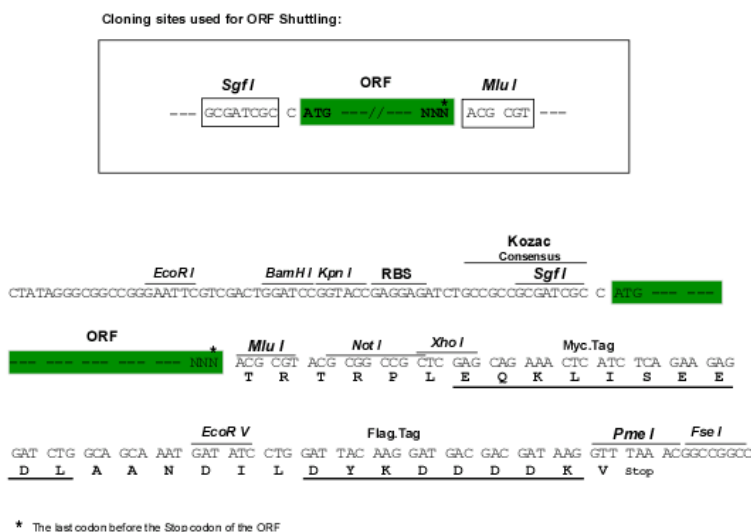
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2674_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001455

ORF Size: 2019 bp

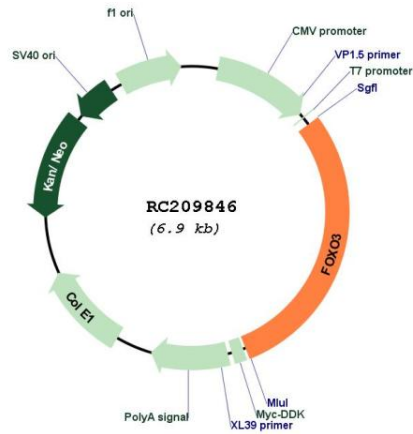
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

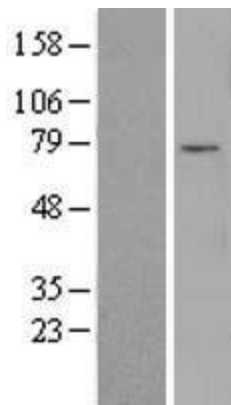
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001455.1
RefSeq Size:	3338 bp
RefSeq ORF:	2022 bp
Locus ID:	2309
UniProt ID:	O43524
Cytogenetics:	6q21
Domains:	FH
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chemokine signaling pathway, Endometrial cancer, Neurotrophin signaling pathway, Non-small cell lung cancer
MW:	71.1 kDa
Gene Summary:	This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. This gene likely functions as a trigger for apoptosis through expression of genes necessary for cell death. Translocation of this gene with the MLL gene is associated with secondary acute leukemia. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008]

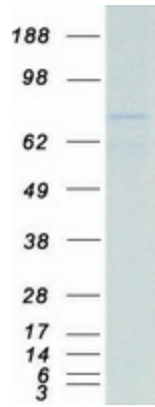
Product images:



Circular map for RC209846



Western blot validation of overexpression lysate (Cat# [LY400566]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FOXO3 protein (Cat# [TP309846]). The protein was produced from HEK293T cells transfected with FOXO3 cDNA clone (Cat# RC209846) using MegaTran 2.0 (Cat# [TT210002]).