

Product datasheet for MR225684

Foxl2 (NM_012020) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Foxl2 (NM_012020) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Foxl2
Synonyms: AU045128; BPES; Pfrk; PINTO
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225684 representing NM_012020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGCCAGCTACCCCGAGCCGAAGACACGGCGGGACCCTGCTGGCTCCGGAGAGCGGACGCGCAG
 TCAAAGAGGCCGAGGCGTCGCCGCCGAGTCCCGCAAGGGAGGCGGGACAACACCGGAGAAACCAGACCC
 CGCGCAGAAGCCCCGACTCGTACGTGGCGCTCATCGCCATGGCGATCCGCGAGAGCGCCGAGAAGAGG
 CTACTCTGTCCGGCATCTACCAGTACATCATAGCCAAGTCCCCTTCTACGAGAAGAACAAGAAGGGCT
 GGCAGAATAGCATCCGCCACAACCTCAGCCTCAACGAGTGCTTCAAGGTGCCGCGAGGGCGCGCGG
 CGAGCGCAAGGGCAACTACTGGACGCTCGACCCGGCTGCGAGGACATGTTGAGAAGGGCAACTACCGG
 CGCCGCCCGCCGATGAAGCGGCCCTCCGGCCGCCGCCGCTCACTTCCAGCCCGCAAGGGGCTTTTCG
 GGAGCGGAGGAGCGGCGGGTGGCTGCGGCGTGCCCGGAGCTGGGGCCGATGGCTATGGCTACCTGGCGCC
 ACCCAAGTACCTGCAATCGGGTTTCTCAACAACCTCCTGGCCCTGCCGAGCCTCCCTCGCCATGCC
 TACGCTCCTGCCAGATGGCGGCGGTGCGGCGGCCGCTGCTGCAGCCGCTGCAGCCGCCGGCCCGGCA
 GCCCGGTGCAGCCGCGTGGTCAAGGGGCTGGCGGGCCCGCCGCTCTACGGCCGCTACTCGCGCT
 GCAGAGCATGGCGTGCCTCCGGCGTGTGAACCTCTACAACGGCTGGGGGCCCTCCTGCCGACCA
 CGCGCCCGCCACCGCCCGCACCCCTACCCGACCCCTCACGCACATCATCTGCACGCGGCCGCTGCGC
 CCCCAGCCCGCCACACCACGGGGTGCAGCGCTCCCGGCTCCCGGGTCAAGTCCCGCAGCCCGGC
 CACCGCCGCGCCCGCCGACCCGCGCCACGAGCGCGCCGCGCTGCAGTTCCGCTGCGCCCGGCAACCC
 GAGCTCGCATGATGCATTGCTCATACTGGGACCACGACAGCAAGACGGGCGCGTGCCTCGCGTCTGG
 ATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225684 representing NM_012020
Red=Cloning site Green=Tags(s)

MMASYPEPEDTAGTLLAPESGRAVKEAEASPPSPGKGGTTPEKPDPAQKPPYSYVALIAMAIRESAEKR
 LTLSGIYQYIIAKFFPYEKNKKGWQNSIRHNLSLNECFIKVPREGGERKGNWTLDPACEDMFEGNYR
 RRRRMKRPFPPPAHFQPGKGLFGSGGAAGCGVPGAGADGYGLAPPKYLQSGFLNNSWPLPQPPSPMP
 YASCQMAAAAAAAAAAAGPGSPGAAAVVKGLAGPAASYGPYSRVQSMALPPGVVNSYNGLGGPPAAP
 PPPPPPHPHPHPHAHHLHAAAAPPPAPPHHGAAPPPGQLSPASPATAAPPAPAPTAPGLQFACARQP
 ELAMMHCSYWDHDSKTGALHSRLDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9047_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012020

ORF Size: 1125 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.

RefSeq: [NM_012020.2](#), [NP_036150.1](#)

RefSeq Size: 2520 bp

RefSeq ORF: 1128 bp

Locus ID: 26927

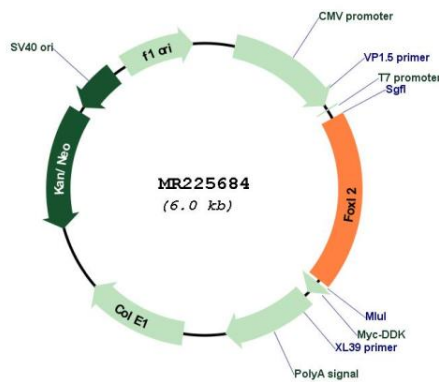
UniProt ID: [O88470](#)

Cytogenetics: 9 E3.3

MW: 39.3 kDa

Gene Summary: Transcriptional regulator. Critical factor essential for ovary differentiation and maintenance, and repression of the genetic program for somatic testis determination. Prevents trans-differentiation of ovary to testis through transcriptional repression of the Sertoli cell-promoting gene SOX9. Has apoptotic activity in ovarian cells. Suppresses ESR1-mediated transcription of PTGS2/COX2 stimulated by tamoxifen. Activates SIRT1 transcription under cellular stress conditions. Activates transcription of OSR2. Is a regulator of CYP19 expression. Is a transcriptional repressor of STAR. Participates in SMAD3-dependent transcription of FST via the intronic SMAD-binding element.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225684