

Product datasheet for **MG225684**

Foxl2 (NM_012020) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Foxl2 (NM_012020) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Foxl2
Synonyms: AU045128; BPES; Pfrk; PINTO
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225684 representing NM_012020
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGCCAGTACCCCGAGCCCGAAGACACGGCGGGACCCTGCTGGCTCCGGAGAGCGGACGCGCAG
 TCAAAGAGGCCGAGGCGTCGCCGCCGAGTCCCGCAAGGGAGGCGGGACAACACCGGAGAAACCAGACCC
 CGCGCAGAAGCCCCGACTCGTACGTGGCGCTCATCGCCATGGCGATCCGCGAGAGCGCCGAGAAGAGG
 CTCACTCTGTCCGGCATCTACCAGTACATCATAGCCAAGTCCCCTTCTACGAGAAGAACAAGAAGGGCT
 GGCAGAATAGCATCCGCCACAACCTCAGCCTCAACGAGTGCTTCAAGGTGCCGCGGAGGGCGCGCG
 CGAGCGCAAGGGCAACTACTGGACGCTCGACCCGGCTGCGAGGACATGTTGAGAAGGGCAACTACCGG
 CGCCGCCCGCCGATGAAGCGGCCCTCCGGCCGCGCCCGCTCACTTCCAGCCCGCAAGGGGCTCTTCG
 GGAGCGGAGGAGCGGCGGGTGGCTGCGGCGTGCCCGGAGCTGGGGCCGATGGCTATGGCTACCTGGCGCC
 ACCCAAGTACCTGCAATCGGGTTCTCAACAACCTCCTGGCCCTGCCGACGCTCCCTCGCCATGCC
 TACGCTCCTGCCAGATGGCGCGGCTGCGGCGCCGCTGCTGCAGCCGCTGCAGCCGCCGGCCCGGCA
 GCCCGGTGCAGCCGCGTGGTCAAGGGGCTGGCGGGCCCGCCCTCTACGGCCGCTACTCGCGCT
 GCAGAGCATGGCGTGCCTCCGGCGTGTGAACCTCTACAACGGCTGGGGGCCCTCTGCCGACCA
 CGCGCCCGCCACCGCCCGCACCTCACCGCACCTCACGCACATCATCTGCACGCGGCGCTGCGC
 CCGCCAGCCCGCCACACCACGGGGTGC CGCGCTCCCGGGT CAGCTCAGTCCCGCCAGCCCGGC
 CACCGCCGCGCCCGCCACCGCGCCACGAGCGCGCCGCGCTGCAGTTCGCTGCGCCCGGCAACCC
 GAGCTCGCATGATGCATTGCTCATACTGGGACCACGACAGCAAGACGGGCGGCTGCACTCGCGTCTGG
 ATCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225684 representing NM_012020
 Red=Cloning site Green=Tags(s)

```
MMASYPEPEDTAGTLLAPESGRAVKEAEASPPSPGKGGTTPEKPDPAQKPPYSYVALIAMAIRESAEKR
LTLSGIYQYIIAKFFPYEKNKKGWQNSIRHNLNLNECFIKVPREGGERKGNYSWTLDPACEDMFEGKNYR
RRRRMKRPFRRPPPAHFQPGKGLFGSGGAAGCGVPGAGADGYGLAPPKYLQSGFLNNSWPLPQPPSPMP
YASCQMAAAAAAAAAAAAAAAAAAGPGSPGAAAVVKGLAGPAASYGPYSRVQSMALPPGVVNSYGLGGPPAQP
PPPPPPHPHPHPHAHHLHAAAAPPPAPPHHGAAPPPGQLSPASPATAAPPAPAPTAPGLQFACARQP
ELAMMHCYWDHDSKTGALHSRLDL
```

TRTRPLE - GFP Tag - V

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

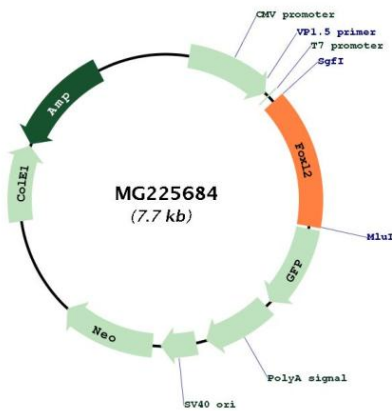
Locus ID: 26927

UniProt ID: [O88470](#)

Cytogenetics: 9 E3.3

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 MG225684