

Product datasheet for MC209752

Foxl2 (NM_012020) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Foxl2 (NM_012020) Mouse Untagged Clone
Tag: Tag Free
Symbol: Foxl2
Synonyms: AU045128; BPES; Pfrk; PINTO
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209752 representing NM_012020
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGATGGCCAGCTACCCGAGCCGAAGACACGGCGGGACCCCTGCTGGCTCCGGAGAGCGGACCGCGCAG
 TCAAAGAGGCCGAGGCGTCGCCCGGAGTCCCGCAAGGGAGGCGGACAACACCGGAGAAACCAGACCC
 CGCGCAGAAGCCCCGTACTCGTACGTGGCGCTCATCGCCATGGCGATCCGCGAGAGCGCCGAGAAGAGG
 CTACTCTGTCCGGCATCTACCAGTACATCATAGCCAAGTTCCTGTTCTACGAGAAGAACAAGAAGGGCT
 GGAGAATAGCATCCGCCACAACCTCAGCCTCAACGAGTGCTTCAAGGTGCCGCGGAGGGCGCGCGG
 CGAGCGCAAGGGCAACTACTGGACGCTCGACCCGGCCTGCGAGGACATGTTGAGAAGGGCAACTACCGG
 CGCCGCCCGCATGAAGCGGCCCTTCCGGCCGCCCGCCTCACTTCCAGCCCGCAAGGGGCTCTTCG
 GGAGCGGAGGAGCGCGGGTGGCTGCGGCGTGCCCGAGCTGGGGCCGATGGCTATGGCTACCTGGCGCC
 ACCCAAGTACCTGCAATCGGGTTCTCAACAACCTCTGGCCCTGCCGAGCCTCCCTCGCCATGCC
 TACGCTCCTGCCAGATGGCGCGGCTGCGCGGCCGCTGCTGCAGCCGCTGCAGCCGCGCCCGCCGGCA
 GCCCGGTGCAGCCCGGTGGTCAAGGGGCTGGCGGCCCGCCCTCCTACGGGCCGCTACTCGCGCGT
 GCAGAGCATGGCGTGCCTCCGGCGTGTGAACCTCTACAACGGCCTGGGGGGCCCTCCTGCCGACCA
 CGCCGCCGCCACCGCCCGCACCCCTCACCCGACCCCTCACGCACATCATCTGCACGCGCCGCTGCGC
 CCCCAGCCAGCCCGCACACCACGGGGCTGCCGCGCTCCCCGGGTGAGCTCAGTCCCAGCCAGCCCGG
 CACCGCCGCGCCCGCACCCGCGCCACGAGCGCGCCCGCCTGCAGTTGCCTGCGCCCGGCAACCC
 GAGCTCGCATGATGCATTGCTCATACTGGACCACGACAGCAAGACGGGCGCGTGCACCTCGCTCTGG
 ATCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_012020
Insert Size:	1128 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	<u>NM_012020.2, NP_036150.1</u>
RefSeq Size:	2520 bp
RefSeq ORF:	1128 bp
Locus ID:	26927
UniProt ID:	<u>O88470</u>
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]