

Table S1

FOXA1 binding site	Closest RefSeq gene	Distance to TSS of closest gene (bp)	Position relative to closest gene
#1	<i>SIK3</i>	2,855	within gene (intron 1)
#2	<i>KITLG</i>	218,377	downstream
#3	<i>BARX2</i>	89,596	upstream
#4	<i>NAV2</i>	14,613	within gene (intron 1)
#5	<i>CHKA</i>	38,608	within gene (intron 2)
#6	<i>CADMI</i>	416,317	upstream
#7	<i>AMOTL1</i>	59,525	upstream
#8	<i>ARNTL</i>	10,022	within gene (intron 1)

Table S2

FOXA1 binding site	Closest RefSeq gene	Distance to TSS of closest gene (bp)	Position relative to closest gene
#1	<i>Tle1</i>	32,477	upstream
#2	<i>Smc2</i>	7,207	upstream
#3	<i>Megf9</i>	24,492	within gene (intron 1)
#4	<i>Hus1</i>	39,909	downstream
#5	<i>Etaa1</i>	202,679	downstream
#6	<i>Efna5</i>	195,042	upstream
#7	<i>Lhcgr</i>	27,791	within gene (intron 6)
#8	<i>Sertad2</i>	95,914	within gene (intron 1)
#9	<i>A530088H08Rik</i>	154,761	upstream
#10	<i>Ltbp1 (variant 2)</i>	127,491	within gene (intron 7)
#11	<i>Pkdc</i>	113,395	upstream

Primers used in Fig.1E

MCF7-specific #1	GCTTGTGATTATGCCCTTT CAAAGGAGTGAGGGAGCAAC
MCF7-specific #2	TTTGTTCAGAAAGCCTGGT GTGCAGCTGTCCAACAGGTA
MCF7-specific #3	CATTGTCTTGACCATGCTC CAGCCAGTGAAACTGTCAA
MCF7-specific #4	ACCTCCAAGAGGGAGAGGAG CTGTCCAGCCGGAGTTAGAG
MCF7-specific #5	GGGGCTGTTTCTTTGTGTGT GCGGCTTTGAGACAGAAGTT
MCF7-specific #6	CACGGAAACAGTGCTCTGAA AGGTTCTTCGTGCGTTCTGT
LNcaP-specific #1	TCAAGGCTGTGCTGATGACT TGCAGTTTATATTCTTGCTCTGA
LNcaP-specific #2	AGGCAAGCCCAAGTGACTAA ACCTAGGCTGTAAACTCATTGTG
LNcaP-specific #3	ATTTCTTGGATGCAAATGGA AACAGGCTGTATTCTCCTGTCC
LNcaP-specific #4	GCCGTCTTTTCATCTTCTCG GTCCTGGGAGCAGAAGTCAC
LNcaP-specific #5	AAGAAGTGCTCCAACGGAGA TTTTAGCCCTAATACACATCCACA
LNcaP-specific #6	TCTGCCAAGAATCTCAGCTTT CTCCCAGCTCTGTCCCATT
LNcaP-specific #7	TGCTGTGCCACATTAAGGAA AAATGGGAGTAGCACCGAAA
LNcaP-specific #8	CTGGTGAGATGGGAACACT AGGCTGCTGGTGCTTAGAT
LNcaP-specific #9	ATTGGCAAAGCAGAATGGAC TTTCTCCCTTCCCTTAGGA
LNcaP-specific #10	TCCTGAAGCAACAACAGCAG AGATCCTACTGGCTGCTCCA

Primers used in Fig.2A

MCF7-specific #3	AACGTGCTGCTTTTTCCACT TAGCAGCCCATTTCAACCTC
MCF7-specific #4	ACCTCCAAGAGGGAGAGGAG CTGTCCAGCCGGAGTTAGAG
MCF7-specific #5	CCCACGTGTGCTCACTTCTA ACCCTGACTCCTCACACACC
LNcaP-specific #6	CCCAATGGAAGAAACGTCCT GGTGGGAAAACCCCATTAAG
LNcaP-specific #8	CAGGAAACCTGGCACAATAA GGTGACCGGCTGAACTAGAG
LNcaP-specific #10	TGGAGCAGCCAGTAGGATCT GGGATGTACAGGCAGACTGG
Negative control #1	GAGTGGCTGTGACTGCTGAC GCTGAGCCACTCTCCAGAAC
Negative control #2	GGGGCTGTTTCTTTGTGTGT GCGGCTTTGAGACAGAAGTT
Negative control #3	CTGGTGAGATGGGAACACT CCCTGACTGTTCTGGTGGTT

Negative control #4
TCTTCAGAGATGCCGCTTTT
GGAAGGGAGGCAGATCCTAC

Primers used in Fig.2B

Amplification primers

MCF7-specific #3	TTCCAAAATACAATATCTCCTCCT TGGTTTTTGGTTTTAGGAATGTG	Biotinylated
MCF7-specific #5	TTTGAAGGGAAAATATGTAGGAAG CAAAAACCTCAAACCCCTATATT	Biotinylated
LNCaP-specific #8	ACCACCAAAACAATCAAAATTTAC AGAAGGTTTGATTGGAAGAGTGT	Biotinylated
LNCaP-specific #10	TTTTCCCTCTAAACAACCTCT ATAGTAGGTGTTTTTGAAGAG	Biotinylated

sequencing primers

MCF7-specific #3	TTAATAGGTGATTATTTA
MCF7-specific #5	CCTATATTAACCACTAACA
LNCaP-specific #8	GAAATTGTGAAAGGTATATG
LNCaP-specific #10	ATAGTAGGTGTTTTTGAAG

Primers used in Fig.2C

ChIP FOXA1 LNCaP-abl	
<i>UBE2C</i> enhancer 1	TGCCTCTGAGTAGGAACAGGTAAGT TGCTTTTTCCATCATGGCAG
<i>UBE2C</i> enhancer 2	CCACAACTCTTCTCAGCTGGG TTCTTTCCTTCCCTGTTACCCC
<i>UBE2C</i> promoter	TGCCCGAGGGAAATTGG CTTACTCCGCGTGGGAACA
<i>KLK3</i> enhancer	TGGGACAACCTGCAAACCTG CCAGAGTAGGTCTGTTTTCAATCCA
Negative control	TCCAGGCCAGGTCTTCATAG CTCTTCTGGTGGGTGTGGAT

Primers used in Fig.2D

bisulfite FOXA1 LNCaP-abl

Amplification primers

<i>UBE2C</i> enhancer 1	TTTGAAATAGGGTTGTTTAGGAA ACAAAACAACACTCAACCTCTTA	Biotinylated
<i>UBE2C</i> enhancer 2 (CpG #1 & #2)	AAAATTTCCCTTCATTTT GAATTTGGTTGAGTTAAGGTAAG	Biotinylated
<i>UBE2C</i> enhancer 2 (CpG #3)	TGAGGTAGGAGAATGGTGTGAA AACCCATAATTTTCTTAATACAA	Biotinylated

sequencing primers

<i>UBE2C</i> enhancer 1	CAAACTCAACCTCTTAATT ATTCAAACCTCTTAAAT AAAAACAAATATTAATCC
<i>UBE2C</i> enhancer 2 (CpG #1 & #2)	TATTTATAGTAGTGATTGG
<i>UBE2C</i> enhancer 2 (CpG #3)	CCACAACTCTTCTCAAC

Primers used in Fig.3C and F

<i>EGFR</i> promoter	AAAGAAGGGAAAGGGGAAG GGGTGCCCTGAGGAGTTAAT
<i>CCND1</i> promoter	CGGGCTTTGATCTTTGCTTA ACTCCCTGTAGTCCGTGTG

FOXA1 site #1	TGCACAACCTGCATACCACAA ATATGTGCGTGCGTGTGTTT
FOXA1 site #2	TGTGGCTGAGCAGTTGTTC ATGGCAAAAGTGAAGGAGA
FOXA1 site #3	GGGAAGGAGGGACATTAAGC CTTTGTTCCCTCGAGCCATGT
FOXA1 site #4	GCCACCTTTGCCCTTTTAGT TCCCCATTCTCAGAGCTGTT
FOXA1 site #5	CTGGTGAGATGGGGAACACT AGGCTGCTGGTGCATTAGAT
FOXA1 site #6	ACCCACCTCCTCACTGAACA GGGTGGGAGAGGACAACATA
FOXA1 site #7	TAGGAAGGAGGAGTGCCAAA TGTGCTGTTTAGGTTGGCTTT
FOXA1 site #8	TTTGATTGCCTTGTGGAACA CCTCACCTTGTCTGTGAATCG
Negative control	TCCAGGCCAGGTCTTCATAG CTCTTCTGGTGGGTGTGGAT

Primers used in Fig.4B, 4C and 5A

<i>Hus1</i> promoter	gggggaacctttgtcctg acaaaagtccctccctgagc
FOXA1 site #1	CAAGCCTTTCCTTTGTTCCA CTGCTCTTCATGCAGCCTAC
FOXA1 site #2	CAGAGATAGGCTGCTACCAAGTC TTTTGTAGGCCTCCATAGTCAAA
FOXA1 site #3	TGAGGGTAATGTGGCAAACA TCTCCAGAGCTTCCGACTG
FOXA1 site #4	TGAGGTGCTCAGTGGAGATG CTCCAGAGTGAGCGTTGACA
FOXA1 site #5	CCCAAACCCACAGTTAGGAC AAGCCTTCGAGGAGGAGAAG
FOXA1 site #6	CAGTCCCATCGATCACTTACA TTCAAAGGCTTGCTTGACCT
FOXA1 site #7	GACATGTCAAGGTGGCCTCT AAGGCTCTGAGGGGATAAGG
FOXA1 site #8	TCCTCAATTCATTGGGGTTG TGTCAGCAGTGGGATGTGTT
FOXA1 site #9	GTGAAGGCTCCTGCATCATC TGGCCCTCTTCTCTGAGTTG
FOXA1 site #10	CACTTTTTCTGGGGCATGAG AGACACGGGCACGTAAATTC
FOXA1 site #11	GCAGCCACTGAAGAGACAAA TGGTTGTGGGCTTGTGTTTA
Negative control	ACCTCAGCAGAAGGAAGCAA GCTGGGATCTCTATGCCTCA

Primers used in Fig.4D and 5A-B

Amplification primers

FOXA1 site #1	TCTTCCCTTATTCTTTCTTCCA GGGTGAGTTTAGGATTGGAAGAT	Biotinylated
FOXA1 site #2 amplicon 1	TGATTTGTGTTGGTGGTTTTTT TCCCAAATCCCAAATAAACTCTA	Biotinylated

FOXA1 site #2 amplicon 2	TTGGGATTTGGGAAGAATTG TTCTCCTATCATAATAACCCCTTA	Biotinylated
FOXA1 site #3	AAATTTTCAAACCCTTAAATCTCA TTGGAGATAGTGTGGTTATGTA	Biotinylated
FOXA1 site #5 amplicon 1	CCATTTTCTTCTAAAACAACACA TGTTGTTGTAATGTTGGGGTAGAG	Biotinylated
FOXA1 site #5 amplicon 2	ATTTCTCTCCCTTCCCCTAACAAAC GGTTTGGGTTATGTTTTTTATGG	Biotinylated
FOXA1 site #6	TTTTTTTTTTTTTACCCTTTCAA GGTTTGTGATTTTGGGAATTAG	Biotinylated
FOXA1 site #7 amplicon 1	TGTTGTTTTTTGGGGGTAGGT ACCTCCACCCAAATCTTTACCA	Biotinylated
FOXA1 site #7 amplicon 2	TTGGTTGTGTTGGATTTGAGATT CCCCCAAAAAACAACACTTAACT	Biotinylated
control	CCCCTTCTTACCCCAAAAATCC GTTGGGGAGGTGGAAAGAAA	Biotinylated

sequencing primers

FOXA1 site #1	AAGGAAAGGTTTGTGTTGTA
FOXA1 site #2	CCCACAAAATAAACAATTA TTTATTCTTTAAATCAACAT
FOXA1 site #3	GGAATTTATGTTGGGTTTT
FOXA1 site #5	TATTTAGAGTATAAAAATTG AAAGATTGTTTTGTATAAGG GGGGATTTTGAATGTAGTA
FOXA1 site #6	TGAAATTATTTATTAGTTTG ATTTTGGTTTTAGAAAT
FOXA1 site #7	ATTTAATAAAAACAAAACAC TCCTATAAAATATAACCAAA
control	TTTATTAGGTGTTGAGAGAT

Primers used in Fig.4E

<i>Tle1</i>	GGGATTCAAGTTGGAAGTGG CCAGAGACTCCGGGATAGTG
<i>Smc2</i>	TAGGCATCTCCAACCTGTCC TTTGGTAATCCCAGCCTGTC
<i>Megf9</i>	CGAAGCCCCTACTTCTCCTC ATCACACTGCCCTGTGGTCT
<i>Hus1</i>	CTGGTATCCGCCATGAAGTT GGCAAGCTTGGCTATCATGT
<i>Etaa1</i>	CGCCAGTACAAATCGTGAAA TGCACTGGAAATCTGCTTTTT
<i>Efna5</i>	GCTGCTCTTCTGGTGCTCT GTGGTAGTCACCCCTCTGGA
<i>Lhcgr</i>	TCACAAGCTTTCAGGGGACT GGTTGTCAAAGGCATTAGCTTC
<i>Sertad2</i>	ctccgatcgtagctcct agcccatctcatgctcatc
<i>A530088H08Rik</i>	GAAACTCATTGCCAGCTTCC CATTGTTGTGGCTGCTCAAG
<i>A530088H08Rik</i>	ATTGCCAGCTTCTCCCTAC CATTGTTGTGGCTGCTCAAG

<i>Ltbp1</i>	GGGGAATACCACCACTCTCA TTGTCCCTTGAAGTGCAGT
<i>Pkdcc</i>	TGCTCAAAGAGATGGTGCTG AGCTGGATCATCTCCACAGG
<i>Rplp0</i>	CAGCTCTGGAGAACTGCTG GTGTACTCAGTCTCCACAGA

Primers used in Fig.6

Cloning primers

MCF7-specific #1	ATTAAGGAATTCCTGCAGCAAGCTTGCAAAGAAGGATTTT GCTCTTCTCCACTAGTGCAGTCTTCATCTCTGGTG
MCF7-specific #2	ATTAAGGAATTCCTGCAGTGAAAAGCTTGCAAAGCAC GCTCTTCTCCACTAGTGCCAAAATAGGTGACCAGA
MCF7-specific #4	ATTAAGGAATTCCTGCAGAGCTGGGACCATGCAATTAG GCTCTTCTCCACTAGTGTGAGCCACTCTCCAGAAC
MCF7-specific #6	ATTAAGGAATTCCTGCAGAAAGCAATTGTCCACATCC GCTCTTCTCCACTAGTAGCGGACAGCCTACCTGTAA
LNcaP-specific #2	ATTAAGGAATTCCTGCAGAGGCAAGCCCAAGTGACTAA GCTCTTCTCCACTAGTTTCCCAAAGGAAGTGTG
LNcaP-specific #4	ATTAAGGAATTCCTGCAGAAGCACTTGAAAAGAATTACATGG GCTCTTCTCCACTAGTGTCAAAGCCCAAGTGTG
LNcaP-specific #9	ATTAAGGAATTCCTGCAGCTGTGATGTGCAGCCTTTTT GCTCTTCTCCACTAGTCTGGGCAATGGAATGAGACT
LNcaP-specific #10	ATTAAGGAATTCCTGCAGAGGGTTCATGGTGTGGAT GCTCTTCTCCACTAGTTTTGGAGGGAAAACAGTGG

Primers used in Fig.S5

<i>RSP28</i>	CGATCCATCATCCGCAATG AGCCAAGCTCAGCGCAAC
<i>FOXA1</i>	GAAGATGGAAGGCATGAAA GCCTGAGTTCATGTTGCTGA
<i>FOXA2</i>	CCGACTGGAGCAGCTACTATG TACGTGTTTATGCCGTTTAT
<i>FOXA3</i>	CTGGCCGAGTGGAGCTACTA AGGGGGATAGGGAGAGCTTA

Primers used in Fig.S6

<i>SIK3</i>	CGCCCGTATCGGCTACTAC TCTTCATCCAGCTGGGTCTT
<i>KITLG</i>	CTTGTGGAGTGCCTGAAAGA CAAGCCACAATTACACTTCTTGA
<i>BARX2</i>	TTTCCCTCTACTCCGTGTGC GACCAGGTGGGAGATGACAG
<i>NAV2</i>	GGAATCGTTTTCTGAGTCCA TGATTGGCCAGTCTGTGTA
<i>CHKA</i>	GGACGAGTCCACATCAGTG CTGCAAATCGCTCCATACA
<i>CADM1</i>	GGCTTCTGCTGTTGCTCTTC CCTCTCCCTCGATCACTGTC
<i>AMOTL1</i>	CTCATGTGGAGGGCAAAGTT GCCTCCAGAATAGAGCTGA
<i>ARNTL</i>	GCTGGATCTGGGTGTAAGA

ACCAAGAGAGCTGGAAAAGCA

Primers used in Fig.S7

<i>Rsp28</i>	GGTGACGTGCTCACCTATT TTCCGTGGGCTAAGTAGTGG
<i>Foxa1</i>	CATGAGAGCAACGACTGGAA TGTTGCTGACAGGGACAGAG
<i>Foxa2</i>	CATCCGACTGGAGCAGCTA TGTGTTTCATGCCATTCATCC
<i>Foxa3</i>	ATGCTGGGCTCAGTGAAGAT GGAGAGCTGAGTGGTTCAA

Primers used in Fig.S9

FOXA1 binding site 1 CpG 2	CCAGGCCTTTTAGTGTTC GCTGAAACAATGGAACAAAGG
FOXA1 binding site 6 CpG 1	CAGTCCCATCGATCACTTACA TTCAAAGGCTTGCTTGACCT
Negative control	TGAGGGTAATGTGGCAAACA TCTCCAGAGCTTCCGACTG

Primers used in Fig.S11

<i>Nes</i>	CTGCAGGCCACTGAAAAGTT TTCCAGGATCTGAGCGATCT
<i>Tubb3</i>	CGGCAACTATGTAGGGGACT CATGGTCCAGGTTCCAAGT