

Table W1. Real-time PCR Primers.

<i>17BHS3</i>	Hydroxysteroid (17-beta) dehydrogenase 3	5': CTGAAGCTCAACACCAAGGTCA 3': CTGCTCCTCTGGTCCTCTTCAG	NM_000197
<i>AR</i>	Androgen receptor	5': GGACTTGTGCATGCGGTACTCA 3': CCTGGCTTCCGCAACTTACAC	NM_000044
<i>AGR2</i>	Anterior gradient homolog 2 (<i>Xenopus laevis</i>)	5': GTCCCCAGGATTATGTTTGTGACC 3': AGTCTTCTCACACTTCTTCTGTTTC	NM_006408
<i>AK5</i>	Adenylate kinase 5	5': GGAGGTGAAGCAAGGGGAAGAGTT 3': TCCTTTGGAGAAGGCGGTTGGTC	NM_174858.1
<i>AKR1C3</i>	Aldo-keto reductase family 1, member C3	5': GAGAAGTAAAGCTTTGGAGGTCACA 3': CAACCTGCTCCTCATTATGTATAA	NM_003739
<i>GPR64</i>	G protein-coupled receptor 64	5': CCAAAGAAA ATGTCAGGAAGCAATGG 3': AGCAGTGTGGTGGAGTTAGTGGAG	NM_001079858.1
<i>hK2</i>	Human glandular kallikrein 2	5': ATGTTGTGTGCTGGGCTCTGGAC 3': GGTGGC TCGGATCCTGTCCTTG	NM_005551
<i>ODC 1</i>	Ornithine decarboxylase 1	5': ATGTGGGTGATTGGATGCTCTTTGA 3': CAGGCTGCTCTGTGGCGTTTCAT	NM_002539
<i>PSA</i>	Prostate-specific antigen	5': CCCCAGAATCACCCGAGCAG 3': ACCAGAGGAGTTCTTGACCCCAAAA	NM_001648
<i>SAA2</i>	Serum amyloid A2	5': TGCTCGGGGGAACATATGATGCTG 3': GTCGGAAGTGATTGGGGTCTCTG	NM_030754
<i>SRD5A1</i>	Steroid-5-alpha-reductase, alpha polypeptide 1	5': CCTGTTGAATGCTTCATGACTTG 3': TAAGGCAAAGCAATGCCAGATG	NM_001047
<i>RUNX1</i>	Runt-related transcription factor 1	5': CTCCTGAACCACTCCACTGCCT 3': GACCCACATTCTGCCTTCCTCATAA	NM_001001890

Table W2. Changes in Androgen-Regulated Genes by HE3235.

Gene Symbol	Gene Name	Fold Change
Increased expression		
<i>SAA2</i>	Serum amyloid A2	5.8
<i>FER1L3</i>	fer-1-like 3, myoferlin (<i>C. elegans</i>)	4.1
<i>RUNX1</i>	Runt-related transcription factor 1 (acute myeloid leukemia 1; <i>aml1</i> oncogene)	3.9
<i>GPR64</i>	G protein-coupled receptor 64	3.0
<i>LOX</i>	Lysyl oxidase	2.5
<i>RIS1</i>	Ras-induced senescence 1	2.5
<i>PKNOX2</i>	PBX/knotted 1 homeobox 2	2.3
<i>RBM24</i>	RNA binding motif protein 24	2.3
<i>ABCG1</i>	ATP-binding cassette, subfamily G (WHITE), member 1	2.2
<i>GDF15</i>	Growth differentiation factor 15	2.2
<i>ODC1</i>	Ornithine decarboxylase 1	2.2
<i>TFF1</i>	Trefoil factor 1 (breast cancer, estrogen-inducible sequence expressed in)	2.2
<i>ABCC4</i>	ATP-binding cassette, subfamily C (CFTR/MRP), member 4	2.1
<i>CDH26</i>	Cadherin-like 26	2.0
<i>GDA</i>	Guanine deaminase	2.0
<i>CDC42EP2</i>	CDC42 effector protein (Rho GTPase binding) 2	2.0
<i>IL1R1</i>	Interleukin 1 receptor, type I	2.0
<i>FADS1</i>	Fatty acid desaturase 1	2.0
<i>PXDN</i>	Peroxidase homolog (<i>Drosophila</i>)	2.0
<i>ChGn</i>	Chondroitin beta1,4 <i>N</i> -acetylgalactosaminyltransferase	2.0
<i>AZGP1</i>	alpha-2-Glycoprotein 1, zinc	2.0
<i>FABP5</i>	Fatty acid binding protein 5 (psoriasis-associated)	1.9
<i>S100A11</i>	S100 calcium binding protein A11 (calgizzarin)	1.9
<i>LOC114984</i>	Hypothetical protein BC014089	1.9
<i>MAF</i>	<i>v-maf</i> musculoaponeurotic fibrosarcoma oncogene homolog (avian)	1.9
<i>LGALS3</i>	Lectin, galactoside-binding, soluble, 3 (galectin 3)	1.9
<i>GPX3</i>	Glutathione peroxidase 3 (plasma)	1.9
<i>LOC645904</i>	Similar to mitotic spindle assembly checkpoint protein MAD1 (mitotic arrest deficient-like protein 1) (MAD1-like 1) (mitotic checkpoint MAD1 protein-homolog) (HsMAD1) (hMAD1) (Tax-binding protein 181)	1.9
<i>SAT</i>	Spermidine/spermine <i>N</i> 1-acetyltransferase	1.9
<i>CASP10</i>	Caspase 10, apoptosis-related cysteine peptidase	1.8
<i>CRISP3</i>	Cysteine-rich secretory protein 3	1.8
<i>PPM1E</i>	Protein phosphatase 1E (PP2C domain containing)	1.8
<i>CTBP1</i>	C-terminal binding protein 1	1.8
<i>C15orf48</i>	Chromosome 15 open reading frame 48	1.8
<i>PGC</i>	Progastricin (pepsinogen C)	1.8
<i>PVRL3</i>	Poliovirus receptor-related 3	1.8
<i>C21orf122</i>	Chromosome 21 open reading frame 122	1.7
<i>RPL36A</i>	Ribosomal protein L36a	1.7
<i>SLC26A2</i>	Solute carrier family 26 (sulfate transporter), member 2	1.7
<i>NFKBIZ</i>	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta	1.7
<i>AGR2</i>	Anterior gradient 2 homolog (<i>Xenopus laevis</i>)	1.7
<i>MICAL1</i>	Microtubule-associated monooxygenase, calponin and LIM domain containing 1	1.7
<i>LFNG</i>	Lunatic fringe homolog (<i>Drosophila</i>)	1.7
<i>MRPL33</i>	Mitochondrial ribosomal protein L33	1.7
<i>AMPD3</i>	Adenosine monophosphate deaminase (isoform E)	1.7
<i>MGC33839</i>	Hypothetical protein MGC33839	1.7
<i>RPLP1</i>	Ribosomal protein, large, P1	1.7
<i>ZNF33A</i>	Zinc finger protein 33A	1.6
<i>AMACR</i>	alpha-Methylacyl-CoA racemase	1.6
<i>RPL21</i>	Ribosomal protein L21	1.6
<i>GRHL2</i>	Grainyhead-like 2 (<i>Drosophila</i>)	1.6
<i>SUMO2</i>	SMT3 suppressor of mif two 3 homolog 2 (yeast)	1.6
<i>RAB32</i>	RAB32, member RAS oncogene family	1.6
<i>C6orf166</i>	Chromosome 6 open reading frame 166	1.6
<i>MT1G</i>	Metallothionein 1G	1.6
<i>GNE</i>	Glucosamine (UDP- <i>N</i> -acetyl)-2-epimerase/ <i>N</i> -acetylmannosamine kinase	1.6
<i>POPDC3</i>	Popeye domain containing 3	1.6
<i>TIMP2</i>	TIMP metalloproteinase inhibitor 2	1.6
<i>CLDN8</i>	Claudin 8	1.6
<i>LIPG</i>	Lipase, endothelial	1.6

Table W2. (continued)

Gene Symbol	Gene Name	Fold Change
<i>RFPL1</i>	Ret finger protein-like 1	1.6
<i>LONPL</i>	Peroxisomal LON protease like	1.6
<i>ARHGEF10</i>	Rho guanine nucleotide exchange factor (GEF) 10	1.6
<i>RHOBTB3</i>	Rho-related BTB domain containing 3	1.6
<i>C14orf78</i>	Chromosome 14 open reading frame 78	1.6
<i>SAA3</i>	Serum amyloid A3	1.6
<i>FER1L4</i>	Fer-1-like 3, myoferlin (<i>C. elegans</i>)	1.6
Decreased expression		
<i>JUN</i>	<i>v-jun</i> sarcoma virus 17 oncogene homolog (avian)	-1.6
<i>IRX5</i>	Iroquois homeobox protein 5	-1.6
<i>SLC3A1</i>	Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1	-1.7
<i>TFPI</i>	Tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	-1.7
<i>JAG1</i>	Jagged 1 (Alagille syndrome)	-1.9
<i>CD44</i>	CD44 antigen (Indian blood group)	-2.0
<i>AR</i>	Androgen receptor (dihydrotestosterone receptor; testicular feminization; spinal and bulbar muscular atrophy; Kennedy disease)	-3.1
<i>AK5</i>	Adenylate kinase 5	-3.7

Table W3. Steroidogenesis Enzymes.

Gene Symbol	Gene Name
<i>AKR1C1</i>	Aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)
<i>AKR1C3</i>	Aldo-keto reductase family 1, member C3 (3-alpha hydroxysteroid dehydrogenase, type II)
<i>CYP11A1</i>	Cytochrome P450, family 11, subfamily A, polypeptide 1
<i>CYP17A1</i>	Cytochrome P450, family 17, subfamily A, polypeptide 1
<i>FASN</i>	Fatty acid synthase
<i>HSD17B1</i>	Hydroxysteroid (17-beta) dehydrogenase 1
<i>HSD17B2</i>	Hydroxysteroid (17-beta) dehydrogenase 2
<i>HSD17B3</i>	Hydroxysteroid (17-beta) dehydrogenase 3
<i>HSD17B4</i>	Hydroxysteroid (17-beta) dehydrogenase 4
<i>HSD17B6</i>	Hydroxysteroid (17-beta) dehydrogenase 6
<i>SRD5A1</i>	Steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)
<i>UGT2B15</i>	UDP glucuronosyltransferase 2 family, polypeptide B15
<i>UGT2B17</i>	UDP glucuronosyltransferase 2 family, polypeptide B17