

Supplemental table 5. Differentially expressed genes in heifers of the TI group compared with the control heifers, day 190 of gestation.

Affymetrix Identifier	Gene Identifier	Gene Name	Ratio	Direction
Bt.22867.2.A1_at	CB444277	MHC class II DQA1	487.07	Down
Bt.27760.1.S1_at	AB008573	MHC class I heavy chain, partial cds, clone P5647.6m	11.06	Down
Bt.20891.1.S1_at	CK960499	2-5-oligoadenylate synthetase 1 (OAS1)	7.55	Up
Bt.3125.1.S1_at	CB464371	Transcribed locus, strongly similar to NP_849200.1 tubulin tyrosine ligase-like 1 [Mus musculus]	5.03	Up
Bt.17477.1.A1_at	CB433789	Transcribed locus	3.89	Down
Bt.12304.1.S1_at	NM_174366	interferon-stimulated protein, 15 kDa	3.57	Up
Bt.17729.1.A1_at	CB433489	Transcribed sequence with weak similarity to protein pir:S48218 (H.sapiens) S48218 microtubular aggregate protein - human	2.91	Up
Bt.19620.1.A1_at	CK955157	Transcribed locus, moderately similar to XP_513514.1 similar to Interferon-induced protein 44 (Antigen p44) (Non-A non-B hepatitis-associated microtubular aggregates protein) [Pan troglodytes]	2.89	Up
Bt.20785.2.S1_at	CB460780	Transcribed locus, moderately similar to XP_513514.1 similar to Interferon-induced protein 44 (Antigen p44) (Non-A non-B hepatitis-associated microtubular aggregates protein) [Pan troglodytes]	2.88	Up
Bt.24467.1.S1_at	CB530781	Transcribed locus	2.86	Up
Bt.8143.1.S1_at	NM_173941	myxovirus (influenza virus) resistance 2 (mouse)	2.63	Up
Bt.20785.1.A1_at	CK777675	Transcribed locus, moderately similar to XP_513514.1 similar to Interferon-induced protein 44 (Antigen p44) (Non-A non-B hepatitis-associated microtubular aggregates protein) [Pan troglodytes]	2.61	Up
Bt.12825.1.S1_at	AV609250	Transcribed sequence with strong similarity to protein pir:A40261 (H.sapiens) A40261 actin gamma, enteric smooth muscle - human	2.36	Down
Bt.3230.1.A1_at	CK776354	Transcribed locus, strongly similar to NP_000023.1 aminolevulinic acid, delta-, synthase 2 (sideroblastic/hypochromic anemia) [Homo sapiens]	2.34	Down
Bt.5847.1.S1_at	BE752683	Transcribed sequence	2.17	Down
Bt.24033.1.A1_at	CB432365	Transcribed locus, moderately similar to XP_520524.1 similar to DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide RIG-I; RNA helicase; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide [Pan troglodytes]	2.15	Up
Bt.29447.1.A1_at	CK972404	Transcribed locus	2.13	Down
Bt.20798.1.S1_at	CB445920	Transcribed sequences	2.07	Up
Bt.23161.2.A1_at	CB423642	Heat shock 70 kD protein 2	2.04	Down
Bt.22029.1.S1_at	CK980927	Transcribed locus, moderately similar to XP_228897.2 similar to Gene trap ROSA 26 antisense, Philippe Soriano [Rattus norvegicus]	2.03	Up
Bt.16752.1.A1_at	CB536841	Transcribed locus, strongly similar to NP_742051.1 thioredoxin domain containing 9 [Mus musculus]	2	Up
Bt.4609.1.S1_at	CB430069	Transcribed locus	2	Down
Bt.23667.2.S1_at	BE487674	Transcribed locus, strongly similar to NP_780325.1 purinergic receptor (family A group 5) [Mus musculus]	1.98	Down
Bt.12206.1.S1_x_at	AF016394	neutrophil beta-defensin-9 like peptide	1.96	Up
Bt.25111.1.A1_at	CK848208	Transcribed locus, weakly similar to XP_524747.1 similar to histocompatibility 28 [Pan troglodytes]	1.95	Up
Bt.22130.1.S1_at	CK848475	Transcribed locus, strongly similar to XP_521554.1 interferon-induced protein with tetratricopeptide repeats 5 [Pan troglodytes]	1.94	Up
Bt.19690.1.A1_at	CB534503	Transcribed locus, weakly similar to XP_519213.1 paraoxonase 2 [Pan troglodytes]	1.93	Down
Bt.26155.1.A1_at	CK775223	Transcribed locus, strongly similar to NP_110396.1 N-acetylneuraminic acid pyruvate lyase (dihydrodipicolinate synthase) [Homo sapiens]	1.92	Down
Bt.7537.1.S1_at	BE666861	Transcribed locus	1.92	Up
Bt.19295.1.S1_at	CK847570	Transcribed locus	1.9	Down
Bt.5341.1.S1_at	M37974	osteoglycin (osteoinductive factor, mimecan)	1.88	Down
Bt.11259.1.S1_at	CB456756	Transcribed locus, moderately similar to NP_663424.1 RIKEN cDNA 1810023F06 gene [Mus musculus]	1.88	Down
Bt.8997.1.S1_at	BM031140	Transcribed sequence	1.87	Up
Bt.17558.1.A1_at	CB430886	Transcribed locus	1.87	Up
Bt.552.1.S1_at	NM_175827	chemokine (C-C motif) ligand 5	1.87	Down
Bt.6700.1.A1_at	BP107527	Embryonic ectoderm development protein	1.86	Down
Bt.28744.1.S1_at	CK971030	Transcribed locus, weakly similar to XP_223172.2 similar to hypothetical protein E430029F06 [Rattus norvegicus]	1.82	Up
Bt.9363.2.S1_at	CK945488	Transcribed locus, moderately similar to NP_001326.2 cathepsin W (lymphopain) [Homo sapiens]	1.81	Down
Bt.24855.1.S1_at	CK776302	Transcribed locus	1.8	Up
Bt.23597.1.S1_at	CK848830	Transcribed locus, weakly similar to NP_002263.1 keratin 4 [Homo sapiens]	1.79	Up
Bt.21044.1.A1_at	CB467996	Transcribed locus, strongly similar to NP_001059.2 topoisomerase (DNA) II beta 180kDa [Homo sapiens]	1.79	Down
Bt.3681.1.S1_at	CK777062	Transcribed locus, strongly similar to NP_002420.1 matrix metalloproteinase 19 [Homo sapiens]	1.78	Up
Bt.24813.2.S1_at	BI680405	Transcribed locus, weakly similar to NP_071430.1 28kD interferon responsive protein [Homo sapiens]	1.74	Up
Bt.19462.1.A1_at	CB461397	Transcribed sequence	1.72	Down
Bt.6858.1.S1_at	CK773609	Transcribed locus, strongly similar to XP_232315.2 similar to CG4853 gene product [Rattus norvegicus]	1.71	Down
Bt.22466.1.A1_at	CB536836	Transcribed sequences	1.71	Up
Bt.4209.1.S1_a_at	CB534327	Component 3	1.71	Down
Bt.3485.1.S1_at	BE668756	Transcribed locus, moderately similar to NP_060520.2 MANS domain containing 1 [Homo sapiens]	1.69	Up
Bt.27394.1.A1_at	CK846542	Transcribed locus, strongly similar to XP_048070.4 zinc finger protein 292 [Homo sapiens]	1.69	Down
Bt.5548.1.S1_at	NM_174601	solute carrier family 1 (neutral amino acid transporter), member 5	1.68	Up

Bt.15703.2.S1_at	CB417623	Transcribed locus, strongly similar to NP_005793.2 topoisomerase I binding, arginine/serine-rich [Homo sapiens]	1.66	Down
Bt.19826.1.A1_at	CB535112	Transcribed sequence	1.66	Up
Bt.24855.2.S1_at	BE753440	Transcribed sequence with moderate similarity to protein sp:Q9Y275 (H.sapiens) T13B_HUMAN Tumor necrosis factor ligand superfamily member 13B	1.65	Up
Bt.9385.1.S1_at	CK953227	Transcribed locus, moderately similar to XP_518477.1 similar to beta-tubulin cofactor C [Pan troglodytes]	1.65	Down
Bt.22301.1.S1_at	CK845887	Transcribed locus, strongly similar to NP_065683.1 ATPase, H+ transporting, lysosomal V0 subunit a isoform 4 [Homo sapiens]	1.65	Down
Bt.20248.1.S1_at	CK774420	Transcribed locus, strongly similar to XP_356099.1 ribonuclease H2, large subunit [Mus musculus]	1.65	Up
Bt.21182.1.S1_at	CB465021	Transcribed locus	1.64	Up
Bt.28732.1.S1_at	D90419	T-cell receptor delta chain	1.64	Down
Bt.17542.1.S1_at	CB431455	Transcribed locus	1.62	Down
Bt.16372.1.A1_at	CB419791	Transcribed locus, strongly similar to NP_076281.1 pantothenate kinase 1 [Mus musculus]	1.61	Down
Bt.24959.1.A1_at	CK776907	Transcribed locus	1.61	Up
Bt.15788.3.S1_at	CB422521	Transcribed locus, weakly similar to NP_004326.1 bone marrow stromal cell antigen 2 [Homo sapiens]	1.61	Up
Bt.2173.1.S1_at	CB463330	Transcribed locus, strongly similar to XP_214478.2 similar to Succinate semialdehyde dehydrogenase (NAD(+)-dependent succinic semialdehyde dehydrogenase) [Rattus norvegicus]	1.6	Up
Bt.16137.1.S1_at	CK838029	Transcribed locus, strongly similar to NP_000687.2 aldehyde dehydrogenase 9 family, member A1 [Homo sapiens]	1.6	Down
Bt.27564.1.A1_at	CK846935	Transcribed locus, moderately similar to NP_077024.1 likely ortholog of mouse D11lgp2 [Homo sapiens]	1.6	Up
Bt.16122.1.S1_at	CK968996	Transcribed locus, strongly similar to NP_003095.1 sorbitol dehydrogenase [Homo sapiens]	1.6	Up
Bt.25828.1.A1_at	CK774101	Transcribed locus, moderately similar to XP_520399.1 similar to centrosomal protein 1; centriole associated protein; centriolin [Pan troglodytes]	1.6	Up
Bt.27889.1.S1_at	CK846165	Transcribed locus	1.6	Down
Bt.22647.2.S1_at	BM087443	Transcribed locus, moderately similar to XP_519171.1 similar to putative homeodomain transcription factor 2 [Pan troglodytes]	1.6	Up
Bt.21765.1.S1_at	CB435377	Transcribed locus, strongly similar to NP_067067.1 Ras-related GTP binding D [Homo sapiens]	1.59	Down
Bt.9267.1.A1_at	CB531127	Transcribed locus, weakly similar to XP_235485.2 similar to CEM15; cDNA sequence BC003314 [Rattus norvegicus]	1.58	Down
Bt.2610.1.S1_at	NM_174081	molybdenum cofactor sulfuryase	1.58	Up
Bt.21431.2.S1_at	CB428714	Transcribed locus, moderately similar to NP_002332.1 lymphotoxin beta (TNF superfamily, member 3) [Homo sapiens]	1.58	Down
Bt.13641.1.S1_at	CK966877	Transcribed locus, strongly similar to XP_510092.1 similar to glutathione transferase zeta 1 [Pan troglodytes]	1.58	Down
Bt.1345.1.S1_at	AW426236	Transcribed locus	1.57	Up
Bt.15958.2.A1_a_at	CB460964	ATP-binding cassette transporter subfamily B, member 1 (ABCB1)	1.57	Down
Bt.20601.1.A1_at	CB172358	Transcribed locus, strongly similar to NP_004808.2 tight junction protein 2 (zona occludens 2) [Homo sapiens]	1.57	Up
Bt.20958.2.S1_at	CB434065	Transcribed locus, strongly similar to XP_516173.1 LOC460038 [Pan troglodytes]	1.56	Down
Bt.2372.1.S1_at	CB168658	Transcribed locus	1.56	Up
Bt.20901.1.A1_at	CB441353	Transcribed locus, weakly similar to NP_004891.3 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B [Homo sapiens]	1.56	Up
Bt.24601.1.S1_at	CK769183	Transcribed locus	1.55	Up
Bt.23985.1.A1_at	BP103941	Transcribed locus, weakly similar to XP_521146.1 similar to ATRX [Pan troglodytes]	1.54	Down
Bt.27818.1.S1_at	CK849477	Transcribed locus, moderately similar to NP_037407.3 ankyrin repeat domain 11 [Homo sapiens]	1.54	Down
Bt.25329.1.S1_at	CK966858	Transcribed locus	1.54	Up
Bt.4943.3.S1_a_at	CK770915	Transcribed locus, moderately similar to XP_218427.2 similar to poliovirus receptor homolog [Rattus norvegicus]	1.53	Up
Bt.8144.1.S1_at	NM_175716	chemokine (C motif) ligand 1	1.53	Down
Bt.22165.1.S1_at	AW478035	Transcribed locus	1.52	Down
Bt.13981.2.A1_a_at	CB464450	Transcribed locus	1.52	Up
Bt.29387.1.S1_at	CK969631	Transcribed locus, weakly similar to XP_496435.1 similar to FLJ46489 protein [Homo sapiens]	1.51	Up