

Table SI. Differentially-expressed lncRNAs found in mice fed with ND, HD or MH.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT149179.1	4.587344	4.11x10 <sup>-16</sup>	UP
NONMMUT031874.2	4.412077	3.40x10 <sup>-15</sup>	UP
NONMMUT153837.1	3.509002	6.13x10 <sup>-15</sup>	UP
NONMMUT139818.1	4.700016	2.20x10 <sup>-14</sup>	UP
NONMMUT031873.2	4.846336	8.05x10 <sup>-14</sup>	UP
ENSMUST00000199788	7.080694	1.14x10 <sup>-13</sup>	UP
ENSMUST00000212322	6.351815	1.97x10 <sup>-12</sup>	UP
NONMMUT149177.1	4.814471	2.01x10 <sup>-11</sup>	UP
NONMMUT152909.1	3.385954	2.45x10 <sup>-10</sup>	UP
NONMMUT149180.1	3.426143	3.69x10 <sup>-10</sup>	UP
ENSMUST00000118437	4.989526	6.86x10 <sup>-10</sup>	UP
NONMMUT153838.1	2.507940	9.24x10 <sup>-10</sup>	UP
NONMMUT119417.1	4.483789	1.03x10 <sup>-9</sup>	UP
NONMMUT010464.2	7.436412	1.76x10 <sup>-9</sup>	UP
NONMMUT008655.2	2.726889	5.37x10 <sup>-9</sup>	UP
NONMMUT140831.1	4.278518	8.18x10 <sup>-9</sup>	UP
NONMMUT067810.2	2.177739	1.45x10 <sup>-8</sup>	UP
NONMMUT146844.1	Inf	2.01x10 <sup>-8</sup>	UP
NONMMUT119419.1	4.715676	2.90x10 <sup>-8</sup>	UP
NONMMUT011659.2	4.924532	3.28x10 <sup>-8</sup>	UP
NONMMUT119418.1	3.196553	3.98x10 <sup>-8</sup>	UP
NONMMUT153019.1	Inf	6.04x10 <sup>-8</sup>	UP
NONMMUT058749.2	2.983326	1.03x10 <sup>-7</sup>	UP
NONMMUT029338.2	3.507321	1.07x10 <sup>-7</sup>	UP
NONMMUT152911.1	3.175219	1.20x10 <sup>-7</sup>	UP
NONMMUT153839.1	2.507771	1.27x10 <sup>-7</sup>	UP
NONMMUT146050.1	4.117007	1.56x10 <sup>-7</sup>	UP
NONMMUT143860.1	Inf	1.86x10 <sup>-7</sup>	UP
NONMMUT145134.1	3.648683	2.30x10 <sup>-7</sup>	UP
NONMMUT003116.2	3.639365	2.67x10 <sup>-7</sup>	UP
NONMMUT149178.1	4.336275	3.12x10 <sup>-7</sup>	UP
NONMMUT153832.1	2.498095	4.72x10 <sup>-7</sup>	UP
ENSMUST00000217474	2.698023	5.98x10 <sup>-7</sup>	UP
NONMMUT034100.2	Inf	5.98x10 <sup>-7</sup>	UP
NONMMUT067662.2	Inf	6.92x10 <sup>-7</sup>	UP
NONMMUT067813.2	2.012964	7.68x10 <sup>-7</sup>	UP
NONMMUT046578.2	2.110350	9.25x10 <sup>-7</sup>	UP
NONMMUT117917.1	Inf	1.20x10 <sup>-6</sup>	UP
NONMMUT029339.2	3.298867	1.65x10 <sup>-6</sup>	UP
NONMMUT142945.1	4.382467	2.14x10 <sup>-6</sup>	UP
NONMMUT005133.2	3.985305	2.18x10 <sup>-6</sup>	UP
NONMMUT006717.2	2.013341	2.29x10 <sup>-6</sup>	UP
NONMMUT046576.2	2.376584	2.41x10 <sup>-6</sup>	UP
NONMMUT146051.1	Inf	2.46x10 <sup>-6</sup>	UP
NONMMUT022874.2	2.566234	2.53x10 <sup>-6</sup>	UP
NONMMUT086088.1	3.415051	3.07x10 <sup>-6</sup>	UP
NONMMUT017022.2	Inf	3.59x10 <sup>-6</sup>	UP
NONMMUT007949.2	Inf	3.71x10 <sup>-6</sup>	UP
NONMMUT007342.2	2.722156	4.97x10 <sup>-6</sup>	UP
NONMMUT146990.1	Inf	6.15x10 <sup>-6</sup>	UP
NONMMUT145895.1	Inf	7.87x10 <sup>-6</sup>	UP
NONMMUT008654.2	2.436541	8.44x10 <sup>-6</sup>	UP
NONMMUT083095.1	2.255706	9.30x10 <sup>-6</sup>	UP
NONMMUT070023.2	Inf	1.09x10 <sup>-5</sup>	UP

Table SI. Continued.

A, HD vs. ND

lncRNA_id	log2FC	P-value	Up- or downregulated
MSTRG.22769.3	Inf	1.14x10 <sup>-5</sup>	UP
NONMMUT146811.1	2.505026	1.20x10 <sup>-5</sup>	UP
NONMMUT077352.1	Inf	1.33x10 <sup>-5</sup>	UP
NONMMUT059049.2	3.565746	1.35x10 <sup>-5</sup>	UP
NONMMUT017329.2	1.621720	1.40x10 <sup>-5</sup>	UP
NONMMUT050000.2	Inf	1.41x10 <sup>-5</sup>	UP
NONMMUT069998.2	5.731109	1.74x10 <sup>-5</sup>	UP
ENSMUST00000181265	3.666015	2.04x10 <sup>-5</sup>	UP
NONMMUT047505.2	2.576374	2.22x10 <sup>-5</sup>	UP
NONMMUT025986.2	1.860048	2.59x10 <sup>-5</sup>	UP
NONMMUT149330.1	3.005187	2.81x10 <sup>-5</sup>	UP
NONMMUT060849.2	6.840615	2.90x10 <sup>-5</sup>	UP
NONMMUT146022.1	2.121404	3.54x10 <sup>-5</sup>	UP
ENSMUST00000126217	2.891734	3.72x10 <sup>-5</sup>	UP
NONMMUT146810.1	2.225110	4.21x10 <sup>-5</sup>	UP
NONMMUT149181.1	2.975583	4.28x10 <sup>-5</sup>	UP
NONMMUT127579.1	7.771908	4.77x10 <sup>-5</sup>	UP
NONMMUT050123.2	5.305941	5.70x10 <sup>-5</sup>	UP
NONMMUT084220.1	Inf	6.42x10 <sup>-5</sup>	UP
NONMMUT044728.2	Inf	7.69x10 <sup>-5</sup>	UP
ENSMUST00000181247	3.200289	7.72x10 <sup>-5</sup>	UP
NONMMUT104790.1	4.276883	8.40x10 <sup>-5</sup>	UP
NONMMUT029640.2	Inf	8.48x10 <sup>-5</sup>	UP
NONMMUT024038.2	1.754538	8.78x10 <sup>-5</sup>	UP
NONMMUT149905.1	Inf	9.66x10 <sup>-5</sup>	UP
NONMMUT143414.1	Inf	1.04x10 <sup>-4</sup>	UP
NONMMUT058999.2	3.382825	1.05x10 <sup>-4</sup>	UP
NONMMUT007925.2	Inf	1.09x10 <sup>-4</sup>	UP
MSTRG.41249.5	Inf	1.18x10 <sup>-4</sup>	UP
NONMMUT036430.2	5.255898	1.25x10 <sup>-4</sup>	UP
NONMMUT104112.1	1.568732	1.25x10 <sup>-4</sup>	UP
ENSMUST00000184080	1.667153	1.27x10 <sup>-4</sup>	UP
NONMMUT043400.2	3.368977	1.31x10 <sup>-4</sup>	UP
ENSMUST00000141485	2.194453	1.34x10 <sup>-4</sup>	UP
NONMMUT035455.2	1.502912	1.36x10 <sup>-4</sup>	UP
NONMMUT021110.2	3.520243	1.42x10 <sup>-4</sup>	UP
NONMMUT035101.2	Inf	1.43x10 <sup>-4</sup>	UP
ENSMUST00000187897	1.677703	1.44x10 <sup>-4</sup>	UP
NONMMUT083088.1	Inf	1.51x10 <sup>-4</sup>	UP
ENSMUST00000144178	Inf	1.53x10 <sup>-4</sup>	UP
NONMMUT046579.2	1.458934	1.67x10 <sup>-4</sup>	UP
NONMMUT048777.2	2.107547	1.68x10 <sup>-4</sup>	UP
NONMMUT041748.2	2.035384	1.68x10 <sup>-4</sup>	UP
NONMMUT029638.2	Inf	1.74x10 <sup>-4</sup>	UP
NONMMUT005129.2	2.987349	1.78x10 <sup>-4</sup>	UP
NONMMUT147193.1	Inf	1.92x10 <sup>-4</sup>	UP
NONMMUT144296.1	2.088347	1.97x10 <sup>-4</sup>	UP
NONMMUT107238.1	1.558037	2.07x10 <sup>-4</sup>	UP
NONMMUT003112.2	1.947408	2.25x10 <sup>-4</sup>	UP
NONMMUT105954.1	Inf	2.36x10 <sup>-4</sup>	UP
NONMMUT141343.1	Inf	2.37x10 <sup>-4</sup>	UP
NONMMUT031441.2	3.009069	2.46x10 <sup>-4</sup>	UP
NONMMUT007939.2	Inf	2.46x10 <sup>-4</sup>	UP
NONMMUT033101.2	2.113896	2.55x10 <sup>-4</sup>	UP

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT147127.1	Inf	2.85x10 <sup>-4</sup>	UP
NONMMUT058340.2	4.339872	2.88x10 <sup>-4</sup>	UP
NONMMUT000951.2	1.794065	2.99x10 <sup>-4</sup>	UP
NONMMUT007906.2	Inf	3.00x10 <sup>-4</sup>	UP
NONMMUT007942.2	Inf	3.02x10 <sup>-4</sup>	UP
NONMMUT028616.2	2.567826	3.14x10 <sup>-4</sup>	UP
NONMMUT007410.2	3.601298	3.36x10 <sup>-4</sup>	UP
NONMMUT041896.2	2.234927	3.47x10 <sup>-4</sup>	UP
NONMMUT048570.2	1.211041	3.59x10 <sup>-4</sup>	UP
ENSMUST00000189594	Inf	3.59x10 <sup>-4</sup>	UP
NONMMUT095726.1	Inf	3.74x10 <sup>-4</sup>	UP
NONMMUT055550.2	Inf	3.81x10 <sup>-4</sup>	UP
NONMMUT007911.2	Inf	4.08x10 <sup>-4</sup>	UP
NONMMUT116255.1	2.869487	4.11x10 <sup>-4</sup>	UP
NONMMUT048571.2	1.278392	4.44x10 <sup>-4</sup>	UP
NONMMUT129652.1	Inf	5.11x10 <sup>-4</sup>	UP
NONMMUT148905.1	Inf	5.21x10 <sup>-4</sup>	UP
NONMMUT034477.2	3.163744	5.43x10 <sup>-4</sup>	UP
NONMMUT046359.2	3.461919	5.45x10 <sup>-4</sup>	UP
NONMMUT144012.1	Inf	5.50x10 <sup>-4</sup>	UP
NONMMUT142676.1	3.529633	5.53x10 <sup>-4</sup>	UP
NONMMUT036688.2	3.742263	5.60x10 <sup>-4</sup>	UP
NONMMUT065330.2	Inf	5.61x10 <sup>-4</sup>	UP
NONMMUT147774.1	1.922483	5.78x10 <sup>-4</sup>	UP
ENSMUST00000188354	1.847114	5.85x10 <sup>-4</sup>	UP
NONMMUT151692.1	1.972006	6.29x10 <sup>-4</sup>	UP
NONMMUT146648.1	Inf	6.47x10 <sup>-4</sup>	UP
NONMMUT013903.2	1.392031	6.49x10 <sup>-4</sup>	UP
NONMMUT010936.2	1.400022	6.54x10 <sup>-4</sup>	UP
NONMMUT016305.2	3.877815	6.56x10 <sup>-4</sup>	UP
ENSMUST00000100518	Inf	6.60x10 <sup>-4</sup>	UP
MSTRG.19643.10	3.106732	7.11x10 <sup>-4</sup>	UP
NONMMUT144014.1	1.892917	7.19x10 <sup>-4</sup>	UP
NONMMUT011499.2	2.600515	7.23x10 <sup>-4</sup>	UP
NONMMUT145306.1	Inf	7.23x10 <sup>-4</sup>	UP
NONMMUT007930.2	Inf	7.41x10 <sup>-4</sup>	UP
NONMMUT026006.2	1.355078	7.64x10 <sup>-4</sup>	UP
NONMMUT028344.2	3.850591	7.71x10 <sup>-4</sup>	UP
NONMMUT006042.2	1.116688	7.81x10 <sup>-4</sup>	UP
NONMMUT017714.2	3.877291	8.31x10 <sup>-4</sup>	UP
NONMMUT117536.1	1.800096	9.01x10 <sup>-4</sup>	UP
NONMMUT006043.2	1.186969	9.75x10 <sup>-4</sup>	UP
NONMMUT138893.1	Inf	9.81x10 <sup>-4</sup>	UP
NONMMUT149504.1	Inf	1.04x10 <sup>-3</sup>	UP
NONMMUT032925.2	Inf	1.04x10 <sup>-3</sup>	UP
NONMMUT149578.1	Inf	1.07x10 <sup>-3</sup>	UP
NONMMUT093829.1	1.665152	1.08x10 <sup>-3</sup>	UP
NONMMUT017327.2	1.278105	1.21x10 <sup>-3</sup>	UP
NONMMUT086557.1	1.285024	1.22x10 <sup>-3</sup>	UP
NONMMUT067814.2	1.376979	1.24x10 <sup>-3</sup>	UP
NONMMUT045052.2	Inf	1.30x10 <sup>-3</sup>	UP
NONMMUT149311.1	Inf	1.32x10 <sup>-3</sup>	UP
NONMMUT148563.1	Inf	1.33x10 <sup>-3</sup>	UP
NONMMUT007933.2	Inf	1.38x10 <sup>-3</sup>	UP

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT019318.2	2.506538	1.40x10 <sup>-3</sup>	UP
NONMMUT094641.1	1.737236	1.40x10 <sup>-3</sup>	UP
NONMMUT086537.1	1.245110	1.42x10 <sup>-3</sup>	UP
NONMMUT114202.1	2.543762	1.45x10 <sup>-3</sup>	UP
NONMMUT141029.1	4.280773	1.46x10 <sup>-3</sup>	UP
NONMMUT017326.2	1.229719	1.46x10 <sup>-3</sup>	UP
MSTRG.4792.2	Inf	1.46x10 <sup>-3</sup>	UP
NONMMUT029203.2	3.262439	1.49x10 <sup>-3</sup>	UP
NONMMUT153016.1	Inf	1.52x10 <sup>-3</sup>	UP
NONMMUT115964.1	1.328777	1.55x10 <sup>-3</sup>	UP
NONMMUT145544.1	1.959052	1.56x10 <sup>-3</sup>	UP
NONMMUT007943.2	Inf	1.58x10 <sup>-3</sup>	UP
NONMMUT143660.1	2.883056	1.62x10 <sup>-3</sup>	UP
NONMMUT025167.2	2.691166	1.70x10 <sup>-3</sup>	UP
ENSMUST00000199119	Inf	1.73x10 <sup>-3</sup>	UP
NONMMUT070692.2	3.436288	1.80x10 <sup>-3</sup>	UP
NONMMUT152503.1	Inf	1.86x10 <sup>-3</sup>	UP
NONMMUT114775.1	1.680319	1.87x10 <sup>-3</sup>	UP
ENSMUST00000180917	Inf	1.88x10 <sup>-3</sup>	UP
NONMMUT043204.2	2.631149	1.91x10 <sup>-3</sup>	UP
NONMMUT147141.1	Inf	1.91x10 <sup>-3</sup>	UP
NONMMUT144580.1	Inf	2.01x10 <sup>-3</sup>	UP
NONMMUT148343.1	Inf	2.07x10 <sup>-3</sup>	UP
MSTRG.49189.21	3.929005	2.10x10 <sup>-3</sup>	UP
NONMMUT057795.2	2.689260	2.16x10 <sup>-3</sup>	UP
NONMMUT148745.1	2.899236	2.16x10 <sup>-3</sup>	UP
ENSMUST00000113496	Inf	2.24x10 <sup>-3</sup>	UP
NONMMUT025316.2	Inf	2.41x10 <sup>-3</sup>	UP
NONMMUT152535.1	6.684677	2.60x10 <sup>-3</sup>	UP
NONMMUT125164.1	1.470255	2.70x10 <sup>-3</sup>	UP
NONMMUT065779.2	1.736939	2.76x10 <sup>-3</sup>	UP
NONMMUT007934.2	3.981427	2.86x10 <sup>-3</sup>	UP
NONMMUT027894.2	3.785181	2.98x10 <sup>-3</sup>	UP
NONMMUT070911.2	2.002708	3.07x10 <sup>-3</sup>	UP
NONMMUT148714.1	Inf	3.09x10 <sup>-3</sup>	UP
NONMMUT071529.2	2.518961	3.18x10 <sup>-3</sup>	UP
NONMMUT148801.1	1.084638	3.19x10 <sup>-3</sup>	UP
NONMMUT142531.1	Inf	3.24x10 <sup>-3</sup>	UP
NONMMUT146195.1	Inf	3.30x10 <sup>-3</sup>	UP
NONMMUT033102.2	1.436573	3.34x10 <sup>-3</sup>	UP
ENSMUST00000061046	Inf	3.41x10 <sup>-3</sup>	UP
NONMMUT064629.2	Inf	3.47x10 <sup>-3</sup>	UP
NONMMUT147609.1	3.173938	3.49x10 <sup>-3</sup>	UP
ENSMUST00000165647	2.669688	3.52x10 <sup>-3</sup>	UP
NONMMUT007935.2	3.869917	3.53x10 <sup>-3</sup>	UP
NONMMUT147217.1	Inf	3.56x10 <sup>-3</sup>	UP
NONMMUT152912.1	1.438057	3.65x10 <sup>-3</sup>	UP
NONMMUT057695.2	2.339164	3.67x10 <sup>-3</sup>	UP
NONMMUT122967.1	Inf	3.67x10 <sup>-3</sup>	UP
NONMMUT047453.2	2.612040	3.82x10 <sup>-3</sup>	UP
NONMMUT006859.2	2.136337	3.84x10 <sup>-3</sup>	UP
NONMMUT109850.1	2.490059	3.84x10 <sup>-3</sup>	UP
NONMMUT130078.1	1.086718	3.85x10 <sup>-3</sup>	UP
NONMMUT054414.2	3.561675	3.93x10 <sup>-3</sup>	UP

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT048447.2	1.114565	4.01x10 <sup>-3</sup>	UP
NONMMUT027011.2	1.741941	4.01x10 <sup>-3</sup>	UP
NONMMUT131821.1	Inf	4.02x10 <sup>-3</sup>	UP
NONMMUT007913.2	Inf	4.05x10 <sup>-3</sup>	UP
NONMMUT140589.1	Inf	4.05x10 <sup>-3</sup>	UP
NONMMUT051999.2	1.980183	4.06x10 <sup>-3</sup>	UP
NONMMUT015528.2	Inf	4.25x10 <sup>-3</sup>	UP
ENSMUST00000209366	Inf	4.39x10 <sup>-3</sup>	UP
NONMMUT013183.2	1.303259	4.44x10 <sup>-3</sup>	UP
NONMMUT144906.1	1.648797	4.57x10 <sup>-3</sup>	UP
NONMMUT003194.2	1.353421	4.59x10 <sup>-3</sup>	UP
NONMMUT139224.1	Inf	4.68x10 <sup>-3</sup>	UP
ENSMUST00000187199	4.003141	4.69x10 <sup>-3</sup>	UP
NONMMUT009055.2	1.535634	4.81x10 <sup>-3</sup>	UP
NONMMUT070024.2	4.056100	5.06x10 <sup>-3</sup>	UP
NONMMUT086595.1	3.839316	5.10x10 <sup>-3</sup>	UP
NONMMUT036432.2	Inf	5.13x10 <sup>-3</sup>	UP
NONMMUT058609.2	1.231921	5.16x10 <sup>-3</sup>	UP
NONMMUT033080.2	Inf	5.43x10 <sup>-3</sup>	UP
NONMMUT141034.1	1.287241	5.57x10 <sup>-3</sup>	UP
NONMMUT054546.2	Inf	5.88x10 <sup>-3</sup>	UP
NONMMUT105067.1	1.505706	5.89x10 <sup>-3</sup>	UP
NONMMUT030905.2	Inf	5.91x10 <sup>-3</sup>	UP
ENSMUST00000180112	Inf	5.91x10 <sup>-3</sup>	UP
NONMMUT097180.1	Inf	5.92x10 <sup>-3</sup>	UP
NONMMUT148903.1	Inf	6.20x10 <sup>-3</sup>	UP
NONMMUT107786.1	Inf	6.30x10 <sup>-3</sup>	UP
NONMMUT037372.2	1.169029	6.31x10 <sup>-3</sup>	UP
NONMMUT007940.2	3.757343	6.36x10 <sup>-3</sup>	UP
NONMMUT043196.2	Inf	6.45x10 <sup>-3</sup>	UP
NONMMUT130073.1	1.187632	6.50x10 <sup>-3</sup>	UP
NONMMUT004140.2	2.727483	6.52x10 <sup>-3</sup>	UP
NONMMUT060889.2	Inf	6.68x10 <sup>-3</sup>	UP
NONMMUT141518.1	1.974730	6.95x10 <sup>-3</sup>	UP
NONMMUT142728.1	2.290878	7.08x10 <sup>-3</sup>	UP
NONMMUT032279.2	2.001371	7.13x10 <sup>-3</sup>	UP
NONMMUT026664.2	Inf	7.26x10 <sup>-3</sup>	UP
ENSMUST00000126679	Inf	7.26x10 <sup>-3</sup>	UP
NONMMUT074311.2	Inf	7.30x10 <sup>-3</sup>	UP
NONMMUT086601.1	2.691159	8.06x10 <sup>-3</sup>	UP
NONMMUT146807.1	2.105787	8.06x10 <sup>-3</sup>	UP
NONMMUT034105.2	3.673000	8.21x10 <sup>-3</sup>	UP
MSTRG.12172.1	1.035026	8.61x10 <sup>-3</sup>	UP
NONMMUT149994.1	2.241303	8.62x10 <sup>-3</sup>	UP
ENSMUST00000172812	2.428034	8.71x10 <sup>-3</sup>	UP
NONMMUT024036.2	1.004650	8.78x10 <sup>-3</sup>	UP
NONMMUT149576.1	1.914168	9.13x10 <sup>-3</sup>	UP
ENSMUST00000124198	1.124140	9.29x10 <sup>-3</sup>	UP
NONMMUT141030.1	3.834895	9.30x10 <sup>-3</sup>	UP
NONMMUT152910.1	1.523464	9.34x10 <sup>-3</sup>	UP
NONMMUT064968.2	1.250037	9.47x10 <sup>-3</sup>	UP
ENSMUST00000209288	1.260953	9.52x10 <sup>-3</sup>	UP
NONMMUT053985.2	Inf	9.54x10 <sup>-3</sup>	UP
NONMMUT115962.1	1.168976	9.83x10 <sup>-3</sup>	UP

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
ENSMUST00000180598	Inf	9.86x10 <sup>-3</sup>	UP
NONMMUT141020.1	5.072240	9.90x10 <sup>-3</sup>	UP
NONMMUT082453.1	Inf	1.00x10 <sup>-2</sup>	UP
NONMMUT044504.2	1.593192	1.01x10 <sup>-2</sup>	UP
NONMMUT115020.1	2.220952	1.02x10 <sup>-2</sup>	UP
ENSMUST00000134624	Inf	1.03x10 <sup>-2</sup>	UP
ENSMUST00000182639	Inf	1.05x10 <sup>-2</sup>	UP
ENSMUST00000144078	Inf	1.08x10 <sup>-2</sup>	UP
NONMMUT138865.1	Inf	1.09x10 <sup>-2</sup>	UP
NONMMUT078911.1	Inf	1.09x10 <sup>-2</sup>	UP
NONMMUT141016.1	Inf	1.12x10 <sup>-2</sup>	UP
NONMMUT153495.1	2.071702	1.17x10 <sup>-2</sup>	UP
NONMMUT153161.1	1.030866	1.19x10 <sup>-2</sup>	UP
NONMMUT048652.2	3.619573	1.23x10 <sup>-2</sup>	UP
NONMMUT103558.1	Inf	1.26x10 <sup>-2</sup>	UP
NONMMUT021254.2	Inf	1.28x10 <sup>-2</sup>	UP
ENSMUST00000191087	Inf	1.28x10 <sup>-2</sup>	UP
NONMMUT138980.1	4.639158	1.28x10 <sup>-2</sup>	UP
NONMMUT005126.2	1.820567	1.33x10 <sup>-2</sup>	UP
ENSMUST00000180684	Inf	1.35x10 <sup>-2</sup>	UP
NONMMUT140551.1	Inf	1.36x10 <sup>-2</sup>	UP
ENSMUST00000154082	3.292182	1.41x10 <sup>-2</sup>	UP
NONMMUT073559.2	Inf	1.46x10 <sup>-2</sup>	UP
NONMMUT148410.1	3.019493	1.47x10 <sup>-2</sup>	UP
NONMMUT063460.2	2.239113	1.48x10 <sup>-2</sup>	UP
NONMMUT033828.2	2.025242	1.49x10 <sup>-2</sup>	UP
ENSMUST00000215521	Inf	1.53x10 <sup>-2</sup>	UP
NONMMUT030906.2	Inf	1.53x10 <sup>-2</sup>	UP
NONMMUT150654.1	1.392423	1.54x10 <sup>-2</sup>	UP
NONMMUT147315.1	1.141540	1.54x10 <sup>-2</sup>	UP
NONMMUT102067.1	1.319319	1.54x10 <sup>-2</sup>	UP
ENSMUST00000168521	Inf	1.54x10 <sup>-2</sup>	UP
NONMMUT007916.2	Inf	1.59x10 <sup>-2</sup>	UP
NONMMUT135634.1	1.351169	1.61x10 <sup>-2</sup>	UP
NONMMUT146809.1	1.853119	1.63x10 <sup>-2</sup>	UP
NONMMUT063496.2	1.224688	1.66x10 <sup>-2</sup>	UP
MSTRG.35407.1	1.677754	1.69x10 <sup>-2</sup>	UP
NONMMUT152906.1	1.544448	1.69x10 <sup>-2</sup>	UP
ENSMUST00000181960	2.305165	1.70x10 <sup>-2</sup>	UP
NONMMUT122333.1	2.793637	1.70x10 <sup>-2</sup>	UP
NONMMUT152860.1	1.225267	1.76x10 <sup>-2</sup>	UP
NONMMUT121373.1	3.359167	1.78x10 <sup>-2</sup>	UP
NONMMUT051325.2	1.547658	1.79x10 <sup>-2</sup>	UP
NONMMUT041201.2	2.798724	1.87x10 <sup>-2</sup>	UP
ENSMUST00000192791	1.237708	1.88x10 <sup>-2</sup>	UP
NONMMUT060741.2	1.133153	1.90x10 <sup>-2</sup>	UP
NONMMUT059082.2	1.985451	1.94x10 <sup>-2</sup>	UP
NONMMUT032276.2	Inf	1.95x10 <sup>-2</sup>	UP
ENSMUST00000181942	3.213598	1.96x10 <sup>-2</sup>	UP
NONMMUT008465.2	1.938712	1.96x10 <sup>-2</sup>	UP
NONMMUT001383.2	1.055241	1.97x10 <sup>-2</sup>	UP
NONMMUT152452.1	1.108467	1.98x10 <sup>-2</sup>	UP
NONMMUT013714.2	2.376768	2.01x10 <sup>-2</sup>	UP
NONMMUT090580.1	Inf	2.05x10 <sup>-2</sup>	UP

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT098694.1	Inf	2.05x10 <sup>-2</sup>	UP
NONMMUT104560.1	Inf	2.14x10 <sup>-2</sup>	UP
NONMMUT126585.1	1.266008	2.16x10 <sup>-2</sup>	UP
NONMMUT152499.1	Inf	2.27x10 <sup>-2</sup>	UP
NONMMUT022963.2	1.143849	2.30x10 <sup>-2</sup>	UP
NONMMUT146887.1	Inf	2.34x10 <sup>-2</sup>	UP
ENSMUST00000147548	1.748498	2.34x10 <sup>-2</sup>	UP
NONMMUT071896.2	1.485475	2.37x10 <sup>-2</sup>	UP
ENSMUST00000146456	Inf	2.37x10 <sup>-2</sup>	UP
NONMMUT141021.1	2.095088	2.42x10 <sup>-2</sup>	UP
NONMMUT139995.1	1.623054	2.55x10 <sup>-2</sup>	UP
NONMMUT147937.1	Inf	2.62x10 <sup>-2</sup>	UP
NONMMUT041200.2	1.905276	2.63x10 <sup>-2</sup>	UP
NONMMUT006867.2	2.105482	2.63x10 <sup>-2</sup>	UP
NONMMUT005393.2	Inf	2.67x10 <sup>-2</sup>	UP
NONMMUT145736.1	1.620431	2.69x10 <sup>-2</sup>	UP
NONMMUT058439.2	Inf	2.69x10 <sup>-2</sup>	UP
NONMMUT036136.2	1.749110	2.72x10 <sup>-2</sup>	UP
NONMMUT009045.2	2.362444	2.84x10 <sup>-2</sup>	UP
NONMMUT150171.1	Inf	2.88x10 <sup>-2</sup>	UP
NONMMUT031178.2	Inf	2.90x10 <sup>-2</sup>	UP
ENSMUST00000200021	1.934510	2.94x10 <sup>-2</sup>	UP
NONMMUT152982.1	2.562690	2.95x10 <sup>-2</sup>	UP
ENSMUST00000181430	1.737094	2.95x10 <sup>-2</sup>	UP
NONMMUT144438.1	3.281180	2.96x10 <sup>-2</sup>	UP
NONMMUT146572.1	1.978564	2.97x10 <sup>-2</sup>	UP
NONMMUT055271.2	Inf	2.99x10 <sup>-2</sup>	UP
NONMMUT007367.2	1.383775	3.00x10 <sup>-2</sup>	UP
NONMMUT142525.1	2.918742	3.00x10 <sup>-2</sup>	UP
NONMMUT021715.2	2.508956	3.04x10 <sup>-2</sup>	UP
NONMMUT025422.2	Inf	3.05x10 <sup>-2</sup>	UP
NONMMUT060322.2	Inf	3.10x10 <sup>-2</sup>	UP
NONMMUT100549.1	Inf	3.11x10 <sup>-2</sup>	UP
NONMMUT119510.1	Inf	3.11x10 <sup>-2</sup>	UP
ENSMUST00000117474	1.480361	3.11x10 <sup>-2</sup>	UP
NONMMUT106199.1	1.424716	3.13x10 <sup>-2</sup>	UP
ENSMUST00000125909	Inf	3.19x10 <sup>-2</sup>	UP
ENSMUST00000180812	2.486852	3.20x10 <sup>-2</sup>	UP
NONMMUT143688.1	1.799000	3.26x10 <sup>-2</sup>	UP
NONMMUT119896.1	1.804066	3.28x10 <sup>-2</sup>	UP
NONMMUT153684.1	1.655009	3.32x10 <sup>-2</sup>	UP
NONMMUT125969.1	3.323034	3.36x10 <sup>-2</sup>	UP
NONMMUT065229.2	Inf	3.44x10 <sup>-2</sup>	UP
NONMMUT017986.2	2.158450	3.52x10 <sup>-2</sup>	UP
NONMMUT132880.1	3.460558	3.52x10 <sup>-2</sup>	UP
NONMMUT013146.2	1.069649	3.59x10 <sup>-2</sup>	UP
NONMMUT119878.1	2.938485	3.69x10 <sup>-2</sup>	UP
NONMMUT148079.1	4.336782	3.76x10 <sup>-2</sup>	UP
NONMMUT142340.1	2.185269	3.81x10 <sup>-2</sup>	UP
ENSMUST00000198462	1.245032	4.02x10 <sup>-2</sup>	UP
NONMMUT116319.1	2.767568	4.02x10 <sup>-2</sup>	UP
NONMMUT154318.1	3.849582	4.20x10 <sup>-2</sup>	UP
NONMMUT027451.2	1.025758	4.28x10 <sup>-2</sup>	UP
NONMMUT154200.1	1.253010	4.46x10 <sup>-2</sup>	UP

Table SI. Continued.

A, HD vs. ND

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT115037.1	1.757485	4.59x10 <sup>-2</sup>	UP
NONMMUT093832.1	1.940207	4.62x10 <sup>-2</sup>	UP
NONMMUT113628.1	2.038564	4.69x10 <sup>-2</sup>	UP
ENSMUST00000221040	1.380051	4.71x10 <sup>-2</sup>	UP
ENSMUST00000180445	2.463447	4.74x10 <sup>-2</sup>	UP
NONMMUT033604.2	2.151155	4.78x10 <sup>-2</sup>	UP
NONMMUT144447.1	1.528758	4.94x10 <sup>-2</sup>	UP
NONMMUT082978.1	2.730448	4.98x10 <sup>-2</sup>	UP
NONMMUT112513.1	-3.870333	4.92x10 <sup>-2</sup>	DOWN
NONMMUT028525.2	-2.981792	4.84x10 <sup>-2</sup>	DOWN
NONMMUT051032.2	-2.139169	4.80x10 <sup>-2</sup>	DOWN
NONMMUT019814.2	Inf	4.67x10 <sup>-2</sup>	DOWN
ENSMUST00000100370	-1.840982	4.60x10 <sup>-2</sup>	DOWN
NONMMUT030701.2	-1.475667	4.55x10 <sup>-2</sup>	DOWN
NONMMUT004734.2	-3.706570	4.54x10 <sup>-2</sup>	DOWN
NONMMUT030717.2	-1.010771	4.53x10 <sup>-2</sup>	DOWN
NONMMUT143378.1	-2.187454	4.49x10 <sup>-2</sup>	DOWN
NONMMUT152973.1	Inf	4.39x10 <sup>-2</sup>	DOWN
NONMMUT144975.1	Inf	4.28x10 <sup>-2</sup>	DOWN
NONMMUT068103.2	-1.590217	4.19x10 <sup>-2</sup>	DOWN
NONMMUT142701.1	-2.476156	3.96x10 <sup>-2</sup>	DOWN
NONMMUT010586.2	-1.404184	3.94x10 <sup>-2</sup>	DOWN
NONMMUT054418.2	-2.816135	3.86x10 <sup>-2</sup>	DOWN
NONMMUT081177.1	-2.398323	3.77x10 <sup>-2</sup>	DOWN
NONMMUT058016.2	-1.526678	3.73x10 <sup>-2</sup>	DOWN
NONMMUT144899.1	-2.719617	3.72x10 <sup>-2</sup>	DOWN
NONMMUT148195.1	Inf	3.68x10 <sup>-2</sup>	DOWN
ENSMUST00000160588	Inf	3.68x10 <sup>-2</sup>	DOWN
NONMMUT149434.1	-2.230984	3.61x10 <sup>-2</sup>	DOWN
NONMMUT068736.2	-2.360147	3.60x10 <sup>-2</sup>	DOWN
NONMMUT153848.1	-1.547462	3.50x10 <sup>-2</sup>	DOWN
NONMMUT146925.1	-3.885423	3.46x10 <sup>-2</sup>	DOWN
NONMMUT006141.2	Inf	3.24x10 <sup>-2</sup>	DOWN
NONMMUT136357.1	Inf	3.22x10 <sup>-2</sup>	DOWN
NONMMUT140094.1	Inf	3.10x10 <sup>-2</sup>	DOWN
NONMMUT153657.1	-2.718099	3.02x10 <sup>-2</sup>	DOWN
NONMMUT144202.1	-3.054976	2.94x10 <sup>-2</sup>	DOWN
NONMMUT003662.2	-2.457903	2.84x10 <sup>-2</sup>	DOWN
NONMMUT026710.2	-2.077911	2.83x10 <sup>-2</sup>	DOWN
NONMMUT115606.1	-1.594442	2.72x10 <sup>-2</sup>	DOWN
NONMMUT140756.1	-3.890834	2.59x10 <sup>-2</sup>	DOWN
NONMMUT063934.2	-1.889852	2.58x10 <sup>-2</sup>	DOWN
NONMMUT061883.2	Inf	2.53x10 <sup>-2</sup>	DOWN
NONMMUT050116.2	-1.909026	2.53x10 <sup>-2</sup>	DOWN
NONMMUT153405.1	-3.774999	2.50x10 <sup>-2</sup>	DOWN
NONMMUT144630.1	-2.966431	2.43x10 <sup>-2</sup>	DOWN
NONMMUT145825.1	-4.114756	2.36x10 <sup>-2</sup>	DOWN
NONMMUT097141.1	-2.790619	2.29x10 <sup>-2</sup>	DOWN
NONMMUT004555.2	-2.003029	2.28x10 <sup>-2</sup>	DOWN
ENSMUST00000213295	-2.063530	2.27x10 <sup>-2</sup>	DOWN
NONMMUT146552.1	-4.017389	2.23x10 <sup>-2</sup>	DOWN
NONMMUT138647.1	-2.068839	2.22x10 <sup>-2</sup>	DOWN
NONMMUT154084.1	-4.428724	2.15x10 <sup>-2</sup>	DOWN
NONMMUT152504.1	Inf	2.07x10 <sup>-2</sup>	DOWN



Table SI. Continued.

A, HD vs. ND

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT011261.2	-1.544378	2.06x10 <sup>-2</sup>	DOWN
NONMMUT149345.1	-3.607574	1.99x10 <sup>-2</sup>	DOWN
NONMMUT006886.2	-1.828964	1.98x10 <sup>-2</sup>	DOWN
NONMMUT024688.2	Inf	1.98x10 <sup>-2</sup>	DOWN
NONMMUT056306.2	-1.752154	1.86x10 <sup>-2</sup>	DOWN
NONMMUT141195.1	Inf	1.78x10 <sup>-2</sup>	DOWN
NONMMUT041594.2	Inf	1.77x10 <sup>-2</sup>	DOWN
NONMMUT098269.1	-2.018018	1.72x10 <sup>-2</sup>	DOWN
ENSMUST00000193029	-3.187224	1.72x10 <sup>-2</sup>	DOWN
NONMMUT101067.1	-2.123899	1.70x10 <sup>-2</sup>	DOWN
NONMMUT142500.1	-1.880579	1.66x10 <sup>-2</sup>	DOWN
NONMMUT030880.2	-3.520043	1.63x10 <sup>-2</sup>	DOWN
NONMMUT093754.1	-2.270860	1.58x10 <sup>-2</sup>	DOWN
NONMMUT031803.2	Inf	1.50x10 <sup>-2</sup>	DOWN
NONMMUT007411.2	-1.667698	1.31x10 <sup>-2</sup>	DOWN
NONMMUT031161.2	-1.956642	1.31x10 <sup>-2</sup>	DOWN
NONMMUT032212.2	-1.147719	1.24x10 <sup>-2</sup>	DOWN
NONMMUT147140.1	Inf	1.23x10 <sup>-2</sup>	DOWN
NONMMUT039590.2	Inf	1.15x10 <sup>-2</sup>	DOWN
NONMMUT006611.2	Inf	1.11x10 <sup>-2</sup>	DOWN
NONMMUT136805.1	-1.885623	1.07x10 <sup>-2</sup>	DOWN
NONMMUT026354.2	-2.929876	1.05x10 <sup>-2</sup>	DOWN
NONMMUT032562.2	-3.187226	8.95x10 <sup>-3</sup>	DOWN
NONMMUT082864.1	-2.111903	8.85x10 <sup>-3</sup>	DOWN
NONMMUT139585.1	-3.449838	8.81x10 <sup>-3</sup>	DOWN
NONMMUT153681.1	Inf	8.43x10 <sup>-3</sup>	DOWN
NONMMUT107530.1	-4.119686	8.08x10 <sup>-3</sup>	DOWN
NONMMUT132467.1	-5.135712	7.88x10 <sup>-3</sup>	DOWN
NONMMUT025104.2	-1.945775	7.61x10 <sup>-3</sup>	DOWN
NONMMUT147940.1	-4.586967	7.55x10 <sup>-3</sup>	DOWN
NONMMUT009872.2	-2.655224	7.08x10 <sup>-3</sup>	DOWN
NONMMUT007982.2	-2.217843	7.04x10 <sup>-3</sup>	DOWN
NONMMUT150711.1	Inf	6.88x10 <sup>-3</sup>	DOWN
NONMMUT151337.1	-3.223959	6.65x10 <sup>-3</sup>	DOWN
NONMMUT141153.1	-1.650750	6.54x10 <sup>-3</sup>	DOWN
NONMMUT112017.1	-2.196942	6.50x10 <sup>-3</sup>	DOWN
MSTRG.41249.4	-2.044740	6.41x10 <sup>-3</sup>	DOWN
NONMMUT131706.1	-2.751577	6.05x10 <sup>-3</sup>	DOWN
NONMMUT048781.2	-3.983579	6.05x10 <sup>-3</sup>	DOWN
NONMMUT131713.1	-2.292189	5.66x10 <sup>-3</sup>	DOWN
NONMMUT085580.1	Inf	5.51x10 <sup>-3</sup>	DOWN
NONMMUT017121.2	-1.799734	5.25x10 <sup>-3</sup>	DOWN
NONMMUT144247.1	-2.213658	5.09x10 <sup>-3</sup>	DOWN
NONMMUT051158.2	-3.106411	4.71x10 <sup>-3</sup>	DOWN
NONMMUT153486.1	Inf	4.46x10 <sup>-3</sup>	DOWN
NONMMUT025155.2	-2.277238	4.45x10 <sup>-3</sup>	DOWN
NONMMUT011318.2	-2.114870	4.19x10 <sup>-3</sup>	DOWN
NONMMUT058645.2	Inf	4.19x10 <sup>-3</sup>	DOWN
MSTRG.27651.3	-5.833589	4.07x10 <sup>-3</sup>	DOWN
NONMMUT150096.1	-3.936149	3.97x10 <sup>-3</sup>	DOWN
NONMMUT005314.2	Inf	3.92x10 <sup>-3</sup>	DOWN
NONMMUT121631.1	-2.013735	3.78x10 <sup>-3</sup>	DOWN
NONMMUT002350.2	-2.876366	3.70x10 <sup>-3</sup>	DOWN
ENSMUST00000208008	-1.475866	3.57x10 <sup>-3</sup>	DOWN

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT006428.2	-2.283654	3.20x10 <sup>-3</sup>	DOWN
NONMMUT112016.1	-1.799877	3.17x10 <sup>-3</sup>	DOWN
NONMMUT152498.1	-3.309696	3.01x10 <sup>-3</sup>	DOWN
NONMMUT151822.1	Inf	2.92x10 <sup>-3</sup>	DOWN
NONMMUT066821.2	-3.536706	2.91x10 <sup>-3</sup>	DOWN
NONMMUT066790.2	-4.204475	2.83x10 <sup>-3</sup>	DOWN
NONMMUT055807.2	-3.045820	2.80x10 <sup>-3</sup>	DOWN
MSTRG.5238.1	-3.007281	2.42x10 <sup>-3</sup>	DOWN
ENSMUST00000201831	-3.194529	2.39x10 <sup>-3</sup>	DOWN
ENSMUST00000224519	-4.597872	2.28x10 <sup>-3</sup>	DOWN
NONMMUT146585.1	-1.548793	2.27x10 <sup>-3</sup>	DOWN
NONMMUT020640.2	-1.894832	1.91x10 <sup>-3</sup>	DOWN
NONMMUT141062.1	-2.960829	1.82x10 <sup>-3</sup>	DOWN
NONMMUT072927.2	Inf	1.82x10 <sup>-3</sup>	DOWN
NONMMUT068989.2	-1.471307	1.77x10 <sup>-3</sup>	DOWN
NONMMUT022944.2	-3.618060	1.63x10 <sup>-3</sup>	DOWN
NONMMUT106009.1	-2.170048	1.56x10 <sup>-3</sup>	DOWN
NONMMUT148811.1	-4.675970	1.34x10 <sup>-3</sup>	DOWN
MSTRG.4109.2	Inf	1.34x10 <sup>-3</sup>	DOWN
NONMMUT047312.2	-1.924794	1.34x10 <sup>-3</sup>	DOWN
NONMMUT048021.2	-2.682350	1.33x10 <sup>-3</sup>	DOWN
NONMMUT107096.1	Inf	1.31x10 <sup>-3</sup>	DOWN
NONMMUT152508.1	-5.711972	1.26x10 <sup>-3</sup>	DOWN
ENSMUST00000221314	-3.203688	1.25x10 <sup>-3</sup>	DOWN
NONMMUT036090.2	-1.545977	1.14x10 <sup>-3</sup>	DOWN
NONMMUT006434.2	-3.741767	1.10x10 <sup>-3</sup>	DOWN
NONMMUT123114.1	-2.623814	1.07x10 <sup>-3</sup>	DOWN
NONMMUT057244.2	-3.278566	8.30x10 <sup>-4</sup>	DOWN
NONMMUT006436.2	-2.951509	7.88x10 <sup>-4</sup>	DOWN
ENSMUST00000199653	-2.293553	7.70x10 <sup>-4</sup>	DOWN
ENSMUST00000211698	-4.101074	7.61x10 <sup>-4</sup>	DOWN
NONMMUT149462.1	Inf	7.56x10 <sup>-4</sup>	DOWN
NONMMUT149801.1	Inf	7.05x10 <sup>-4</sup>	DOWN
NONMMUT151773.1	Inf	6.78x10 <sup>-4</sup>	DOWN
NONMMUT006238.2	-2.579812	6.43x10 <sup>-4</sup>	DOWN
ENSMUST00000210633	Inf	6.42x10 <sup>-4</sup>	DOWN
NONMMUT140206.1	-3.381982	5.66x10 <sup>-4</sup>	DOWN
ENSMUST00000205051	-3.231663	5.14x10 <sup>-4</sup>	DOWN
NONMMUT114465.1	-3.657460	4.98x10 <sup>-4</sup>	DOWN
NONMMUT060208.2	-4.486801	4.60x10 <sup>-4</sup>	DOWN
NONMMUT031005.2	-2.697691	4.07x10 <sup>-4</sup>	DOWN
NONMMUT145233.1	-1.749621	3.66x10 <sup>-4</sup>	DOWN
NONMMUT061284.2	Inf	3.61x10 <sup>-4</sup>	DOWN
NONMMUT140207.1	-2.445636	3.39x10 <sup>-4</sup>	DOWN
NONMMUT145424.1	-4.183682	3.10x10 <sup>-4</sup>	DOWN
NONMMUT007730.2	-2.784884	3.03x10 <sup>-4</sup>	DOWN
NONMMUT138534.1	Inf	2.62x10 <sup>-4</sup>	DOWN
NONMMUT107580.1	-2.846116	1.92x10 <sup>-4</sup>	DOWN
NONMMUT141065.1	-3.050891	1.85x10 <sup>-4</sup>	DOWN
NONMMUT059612.2	-5.137334	1.84x10 <sup>-4</sup>	DOWN

Table SI. Continued.

A, HD vs. ND			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT073067.2	-2.205865	1.63x10 <sup>-4</sup>	DOWN
NONMMUT147866.1	-5.393417	1.58x10 <sup>-4</sup>	DOWN
NONMMUT118345.1	Inf	1.56x10 <sup>-4</sup>	DOWN
NONMMUT028469.2	-3.110054	1.43x10 <sup>-4</sup>	DOWN
ENSMUST00000178129	-5.340283	1.03x10 <sup>-4</sup>	DOWN
NONMMUT140208.1	-2.303691	1.00x10 <sup>-4</sup>	DOWN
NONMMUT070478.2	Inf	8.95x10 <sup>-5</sup>	DOWN
NONMMUT119743.1	Inf	8.22x10 <sup>-5</sup>	DOWN
NONMMUT016686.2	-2.444520	7.76x10 <sup>-5</sup>	DOWN
NONMMUT037021.2	-3.206509	7.30x10 <sup>-5</sup>	DOWN
NONMMUT028634.2	-5.064339	6.66x10 <sup>-5</sup>	DOWN
ENSMUST00000180982	-7.996186	5.39x10 <sup>-5</sup>	DOWN
NONMMUT053361.2	-5.429591	4.96x10 <sup>-5</sup>	DOWN
NONMMUT039400.2	-3.528571	4.78x10 <sup>-5</sup>	DOWN
NONMMUT027048.2	-3.985550	4.43x10 <sup>-5</sup>	DOWN
ENSMUST00000196744	-2.073987	4.27x10 <sup>-5</sup>	DOWN
NONMMUT047572.2	-4.391573	3.50x10 <sup>-5</sup>	DOWN
NONMMUT051864.2	-3.929621	3.49x10 <sup>-5</sup>	DOWN
NONMMUT060139.2	-4.801139	3.31x10 <sup>-5</sup>	DOWN
NONMMUT139832.1	Inf	3.25x10 <sup>-5</sup>	DOWN
NONMMUT025510.2	-2.728365	3.16x10 <sup>-5</sup>	DOWN
NONMMUT039378.2	-4.573749	2.81x10 <sup>-5</sup>	DOWN
NONMMUT020648.2	-3.180761	2.58x10 <sup>-5</sup>	DOWN
NONMMUT143093.1	-6.019240	2.34x10 <sup>-5</sup>	DOWN
NONMMUT079394.1	-3.643102	1.56x10 <sup>-5</sup>	DOWN
NONMMUT064687.2	-3.478610	1.23x10 <sup>-5</sup>	DOWN
NONMMUT142291.1	-4.612548	1.13x10 <sup>-5</sup>	DOWN
NONMMUT041548.2	-2.365590	1.09x10 <sup>-5</sup>	DOWN
MSTRG.27651.8	Inf	8.84x10 <sup>-6</sup>	DOWN
NONMMUT065447.2	-2.107542	6.19x10 <sup>-6</sup>	DOWN
NONMMUT003637.2	-3.830748	2.56x10 <sup>-6</sup>	DOWN
NONMMUT152510.1	-6.092981	2.47x10 <sup>-6</sup>	DOWN
NONMMUT012087.2	-5.899894	2.09x10 <sup>-6</sup>	DOWN
NONMMUT027558.2	-4.051528	1.63x10 <sup>-6</sup>	DOWN
NONMMUT001352.2	-3.867654	1.63x10 <sup>-6</sup>	DOWN
NONMMUT012522.2	-5.943140	1.35x10 <sup>-6</sup>	DOWN
NONMMUT140201.1	-4.459249	5.05x10 <sup>-7</sup>	DOWN
ENSMUST00000181871	-4.032814	4.87x10 <sup>-7</sup>	DOWN
ENSMUST00000208358	-5.700743	3.66x10 <sup>-7</sup>	DOWN
NONMMUT006991.2	Inf	2.54x10 <sup>-7</sup>	DOWN
NONMMUT057179.2	-2.910680	1.96x10 <sup>-7</sup>	DOWN
NONMMUT000701.2	-3.559318	8.87x10 <sup>-8</sup>	DOWN
NONMMUT062675.2	-4.238485	8.72x10 <sup>-8</sup>	DOWN
NONMMUT001470.2	-2.887480	4.42x10 <sup>-8</sup>	DOWN
NONMMUT047231.2	-2.361038	2.71x10 <sup>-8</sup>	DOWN
NONMMUT011310.2	-3.933624	6.91x10 <sup>-9</sup>	DOWN
NONMMUT041546.2	-3.210918	5.62x10 <sup>-9</sup>	DOWN
NONMMUT010559.2	-4.900520	2.27x10 <sup>-9</sup>	DOWN
NONMMUT149997.1	Inf	2.06x10 <sup>-9</sup>	DOWN
NONMMUT141056.1	-4.716349	1.25x10 <sup>-9</sup>	DOWN
NONMMUT146591.1	Inf	9.30x10 <sup>-10</sup>	DOWN
NONMMUT034345.2	-6.532689	8.03x10 <sup>-11</sup>	DOWN

Table SI. Continued.

B, MH vs. HD			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT149179.1	-2.251507116	2.87x10 <sup>-6</sup>	DOWN
NONMMUT031874.2	-3.052483628	1.41x10 <sup>-6</sup>	DOWN
NONMMUT153837.1	-2.189605925	9.70x10 <sup>-4</sup>	DOWN
NONMMUT139818.1	-2.807092844	2.99x10 <sup>-4</sup>	DOWN
NONMMUT031873.2	-3.4617238	4.32x10 <sup>-5</sup>	DOWN
ENSMUST00000199788	-1.754832783	6.01x10 <sup>-3</sup>	DOWN
ENSMUST00000212322	-6.487836428	1.43x10 <sup>-9</sup>	DOWN
NONMMUT149177.1	-1.514689072	9.06x10 <sup>-3</sup>	DOWN
NONMMUT152909.1	-1.698335978	1.57x10 <sup>-4</sup>	DOWN
NONMMUT149180.1	-2.498219786	2.31x10 <sup>-5</sup>	DOWN
ENSMUST00000118437	-1.64972019	2.96x10 <sup>-3</sup>	DOWN
NONMMUT153838.1	-2.15746984	1.36x10 <sup>-4</sup>	DOWN
NONMMUT119417.1	-1.919131122	7.18x10 <sup>-4</sup>	DOWN
NONMMUT010464.2	Inf	1.78x10 <sup>-8</sup>	DOWN
NONMMUT008655.2	-1.152254221	1.60x10 <sup>-2</sup>	DOWN
NONMMUT140831.1	-2.064121271	3.91x10 <sup>-4</sup>	DOWN
NONMMUT067810.2	-1.548822352	8.12x10 <sup>-5</sup>	DOWN
NONMMUT146844.1	-2.188358298	1.60x10 <sup>-2</sup>	DOWN
NONMMUT119419.1	-1.646476336	3.06x10 <sup>-3</sup>	DOWN
NONMMUT011659.2	-3.617384767	1.81x10 <sup>-5</sup>	DOWN
NONMMUT119418.1	-2.804342669	5.90x10 <sup>-6</sup>	DOWN
NONMMUT153019.1	-2.348324626	3.73x10 <sup>-2</sup>	DOWN
NONMMUT058749.2	-1.571706508	3.17x10 <sup>-3</sup>	DOWN
NONMMUT029338.2	-1.302473274	5.84x10 <sup>-3</sup>	DOWN
NONMMUT152911.1	-1.501832054	1.39x10 <sup>-3</sup>	DOWN
NONMMUT153839.1	-1.853127454	1.52x10 <sup>-3</sup>	DOWN
NONMMUT146050.1	-1.336521696	9.06x10 <sup>-3</sup>	DOWN
NONMMUT143860.1	Inf	4.72x10 <sup>-6</sup>	DOWN
NONMMUT145134.1	-2.500624095	1.43x10 <sup>-4</sup>	DOWN
NONMMUT003116.2	-1.457043659	1.46x10 <sup>-2</sup>	DOWN
NONMMUT149178.1	-3.414378531	3.50x10 <sup>-5</sup>	DOWN
NONMMUT153832.1	-1.646987686	2.16x10 <sup>-2</sup>	DOWN
ENSMUST00000217474	-1.658876597	8.94x10 <sup>-3</sup>	DOWN
NONMMUT034100.2	-3.421011905	2.07x10 <sup>-3</sup>	DOWN
NONMMUT067662.2	-2.361306399	4.54x10 <sup>-2</sup>	DOWN
NONMMUT067813.2	-1.210334703	3.46x10 <sup>-3</sup>	DOWN
NONMMUT046578.2	-1.347914464	1.72x10 <sup>-3</sup>	DOWN
NONMMUT117917.1	-4.042359266	6.95x10 <sup>-4</sup>	DOWN
NONMMUT029339.2	-1.35205037	9.53x10 <sup>-3</sup>	DOWN
NONMMUT142945.1	-2.462564093	2.03x10 <sup>-3</sup>	DOWN
NONMMUT005133.2	-1.066804172	2.32x10 <sup>-2</sup>	DOWN
NONMMUT006717.2	-1.620924746	5.50x10 <sup>-3</sup>	DOWN
NONMMUT046576.2	-1.490116485	5.17x10 <sup>-4</sup>	DOWN
NONMMUT146051.1	-3.989733176	1.43x10 <sup>-3</sup>	DOWN
NONMMUT022874.2	-1.143860681	3.35x10 <sup>-2</sup>	DOWN
NONMMUT086088.1	-2.12357075	2.22x10 <sup>-3</sup>	DOWN
NONMMUT017022.2	Inf	6.78x10 <sup>-5</sup>	DOWN
NONMMUT007949.2	Inf	3.29x10 <sup>-5</sup>	DOWN
NONMMUT007342.2	-1.704192489	3.19x10 <sup>-3</sup>	DOWN
NONMMUT146990.1	-2.790448305	2.29x10 <sup>-2</sup>	DOWN
NONMMUT145895.1	-3.332696529	4.25x10 <sup>-3</sup>	DOWN
NONMMUT008654.2	-1.14344605	3.76x10 <sup>-2</sup>	DOWN
NONMMUT083095.1	-1.890685958	5.32x10 <sup>-4</sup>	DOWN
NONMMUT070023.2	Inf	2.18x10 <sup>-4</sup>	DOWN

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
MSTRG.22769.3	-4.545009715	3.12x10 <sup>-3</sup>	DOWN
NONMMUT146811.1	-1.910300214	6.58x10 <sup>-4</sup>	DOWN
NONMMUT077352.1	-2.818167041	1.33x10 <sup>-2</sup>	DOWN
NONMMUT059049.2	-1.81744289	1.52x10 <sup>-2</sup>	DOWN
NONMMUT017329.2	-1.615445091	3.34x10 <sup>-4</sup>	DOWN
NONMMUT050000.2	-2.374555524	1.29x10 <sup>-2</sup>	DOWN
NONMMUT069998.2	-3.369143886	2.77x10 <sup>-3</sup>	DOWN
ENSMUST00000181265	-2.09712	2.92x10 <sup>-2</sup>	DOWN
NONMMUT047505.2	-1.830208306	1.15x10 <sup>-2</sup>	DOWN
NONMMUT025986.2	-1.183036488	8.05x10 <sup>-3</sup>	DOWN
NONMMUT149330.1	-2.689112732	8.23x10 <sup>-4</sup>	DOWN
NONMMUT060849.2	-5.200589813	6.14x10 <sup>-4</sup>	DOWN
NONMMUT146022.1	-1.098219514	2.35x10 <sup>-3</sup>	DOWN
ENSMUST00000126217	-1.484366821	3.35x10 <sup>-2</sup>	DOWN
NONMMUT146810.1	-1.42759315	3.94x10 <sup>-4</sup>	DOWN
NONMMUT149181.1	-2.138256191	4.48x10 <sup>-3</sup>	DOWN
NONMMUT127579.1	-4.089928688	1.12x10 <sup>-2</sup>	DOWN
NONMMUT050123.2	-5.668530436	1.16x10 <sup>-4</sup>	DOWN
NONMMUT084220.1	-3.1188127	1.04x10 <sup>-2</sup>	DOWN
NONMMUT044728.2	-4.816934696	4.93x10 <sup>-3</sup>	DOWN
ENSMUST00000181247	-1.978954112	2.36x10 <sup>-2</sup>	DOWN
NONMMUT104790.1	-5.017187484	1.87x10 <sup>-4</sup>	DOWN
NONMMUT029640.2	Inf	9.72x10 <sup>-5</sup>	DOWN
NONMMUT024038.2	-1.419353607	5.86x10 <sup>-3</sup>	DOWN
NONMMUT149905.1	Inf	7.87x10 <sup>-4</sup>	DOWN
NONMMUT143414.1	-3.795702277	5.45x10 <sup>-3</sup>	DOWN
NONMMUT058999.2	-1.724329908	1.54x10 <sup>-2</sup>	DOWN
NONMMUT007925.2	Inf	3.98x10 <sup>-4</sup>	DOWN
MSTRG.41249.5	Inf	2.41x10 <sup>-4</sup>	DOWN
NONMMUT036430.2	-3.339928301	5.56x10 <sup>-3</sup>	DOWN
NONMMUT104112.1	-1.817542483	1.86x10 <sup>-3</sup>	DOWN
ENSMUST00000184080	-1.14273728	3.28x10 <sup>-2</sup>	DOWN
NONMMUT043400.2	-1.882346786	1.27x10 <sup>-2</sup>	DOWN
ENSMUST00000141485	-1.914308844	8.70x10 <sup>-4</sup>	DOWN
NONMMUT035455.2	-1.183362411	3.18x10 <sup>-3</sup>	DOWN
NONMMUT021110.2	-3.373816384	3.86x10 <sup>-4</sup>	DOWN
NONMMUT035101.2	-2.696929933	3.10x10 <sup>-2</sup>	DOWN
ENSMUST00000187897	-1.030487686	7.28x10 <sup>-3</sup>	DOWN
NONMMUT083088.1	Inf	1.13x10 <sup>-3</sup>	DOWN
ENSMUST00000144178	Inf	5.45x10 <sup>-4</sup>	DOWN
NONMMUT046579.2	-1.047126823	1.26x10 <sup>-2</sup>	DOWN
NONMMUT048777.2	-1.234519523	2.43x10 <sup>-2</sup>	DOWN
NONMMUT041748.2	-1.75415746	4.29x10 <sup>-3</sup>	DOWN
NONMMUT029638.2	#NAME?	2.10x10 <sup>-4</sup>	DOWN
NONMMUT005129.2	-2.675216097	1.26x10 <sup>-3</sup>	DOWN
NONMMUT147193.1	Inf	4.96x10 <sup>-4</sup>	DOWN
NONMMUT144296.1	-2.966371892	9.22x10 <sup>-5</sup>	DOWN
NONMMUT107238.1	-1.123915039	7.54x10 <sup>-3</sup>	DOWN
NONMMUT003112.2	-1.403831844	1.71x10 <sup>-2</sup>	DOWN
NONMMUT105954.1	-4.13237591	4.54x10 <sup>-3</sup>	DOWN
NONMMUT141343.1	Inf	4.43x10 <sup>-4</sup>	DOWN
NONMMUT031441.2	-4.124223991	3.01x10 <sup>-5</sup>	DOWN
NONMMUT007939.2	Inf	1.09x10 <sup>-3</sup>	DOWN
NONMMUT033101.2	-2.611666639	4.04x10 <sup>-5</sup>	DOWN

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT147127.1	Inf	7.49x10 <sup>-4</sup>	DOWN
NONMMUT058340.2	-3.302962912	2.83x10 <sup>-3</sup>	DOWN
NONMMUT000951.2	-1.186060827	9.67x10 <sup>-3</sup>	DOWN
NONMMUT007906.2	Inf	1.02x10 <sup>-3</sup>	DOWN
NONMMUT007942.2	Inf	1.42x10 <sup>-3</sup>	DOWN
NONMMUT028616.2	-2.074929846	2.95x10 <sup>-3</sup>	DOWN
NONMMUT007410.2	-1.986310236	1.82x10 <sup>-2</sup>	DOWN
NONMMUT041896.2	-1.447801493	2.53x10 <sup>-2</sup>	DOWN
NONMMUT048570.2	-1.519826439	2.04x10 <sup>-3</sup>	DOWN
ENSMUST00000189594	Inf	1.51x10 <sup>-3</sup>	DOWN
NONMMUT095726.1	Inf	1.23x10 <sup>-3</sup>	DOWN
NONMMUT055550.2	Inf	4.98x10 <sup>-4</sup>	DOWN
NONMMUT007911.2	Inf	1.41x10 <sup>-3</sup>	DOWN
NONMMUT116255.1	-3.561572014	5.22x10 <sup>-4</sup>	DOWN
NONMMUT048571.2	-1.538526661	1.24x10 <sup>-3</sup>	DOWN
NONMMUT129652.1	-2.946858913	3.60x10 <sup>-2</sup>	DOWN
NONMMUT148905.1	Inf	1.04x10 <sup>-3</sup>	DOWN
NONMMUT034477.2	-2.033297257	1.66x10 <sup>-2</sup>	DOWN
NONMMUT046359.2	-3.184722215	1.48x10 <sup>-3</sup>	DOWN
NONMMUT144012.1	Inf	1.39x10 <sup>-3</sup>	DOWN
NONMMUT142676.1	-3.40444535	3.99x10 <sup>-3</sup>	DOWN
NONMMUT036688.2	-2.354273357	1.72x10 <sup>-2</sup>	DOWN
NONMMUT065330.2	Inf	2.84x10 <sup>-3</sup>	DOWN
NONMMUT147774.1	-1.272719221	3.53x10 <sup>-2</sup>	DOWN
ENSMUST00000188354	-1.367775284	2.46x10 <sup>-2</sup>	DOWN
NONMMUT151692.1	-2.136256475	4.02x10 <sup>-3</sup>	DOWN
NONMMUT146648.1	Inf	1.20x10 <sup>-3</sup>	DOWN
NONMMUT013903.2	-1.652160548	8.70x10 <sup>-4</sup>	DOWN
NONMMUT010936.2	-1.004169385	5.71x10 <sup>-3</sup>	DOWN
NONMMUT016305.2	-2.995062158	1.77x10 <sup>-2</sup>	DOWN
ENSMUST00000100518	Inf	1.30x10 <sup>-3</sup>	DOWN
MSTRG.19643.10	-5.378104378	8.22x10 <sup>-9</sup>	DOWN
NONMMUT144014.1	-1.62483978	1.34x10 <sup>-3</sup>	DOWN
NONMMUT011499.2	-1.599396187	2.17x10 <sup>-2</sup>	DOWN
NONMMUT145306.1	Inf	1.45x10 <sup>-3</sup>	DOWN
NONMMUT007930.2	Inf	1.96x10 <sup>-3</sup>	DOWN
NONMMUT026006.2	-1.423632517	2.96x10 <sup>-3</sup>	DOWN
NONMMUT028344.2	-2.211379084	2.10x10 <sup>-2</sup>	DOWN
NONMMUT006042.2	-1.013931172	6.10x10 <sup>-3</sup>	DOWN
NONMMUT017714.2	-1.823318255	4.59x10 <sup>-2</sup>	DOWN
NONMMUT117536.1	-2.17846661	2.39x10 <sup>-3</sup>	DOWN
NONMMUT006043.2	-1.231788549	1.33x10 <sup>-3</sup>	DOWN
NONMMUT138893.1	Inf	1.38x10 <sup>-3</sup>	DOWN
NONMMUT149504.1	Inf	2.06x10 <sup>-3</sup>	DOWN
NONMMUT032925.2	-4.082391752	1.33x10 <sup>-2</sup>	DOWN
NONMMUT149578.1	Inf	2.12x10 <sup>-3</sup>	DOWN
NONMMUT093829.1	-1.452944931	5.19x10 <sup>-3</sup>	DOWN
NONMMUT017327.2	-1.340625631	4.16x10 <sup>-3</sup>	DOWN
NONMMUT086557.1	-1.345964358	2.54x10 <sup>-3</sup>	DOWN
NONMMUT067814.2	-1.052728114	2.40x10 <sup>-2</sup>	DOWN
NONMMUT045052.2	-5.37384461	8.37x10 <sup>-3</sup>	DOWN
NONMMUT149311.1	Inf	2.63x10 <sup>-3</sup>	DOWN
NONMMUT148563.1	Inf	2.75x10 <sup>-3</sup>	DOWN
NONMMUT007933.2	Inf	2.81x10 <sup>-3</sup>	DOWN

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT019318.2	-1.536109901	3.69x10 <sup>-2</sup>	DOWN
NONMMUT094641.1	-2.555811222	5.07x10 <sup>-4</sup>	DOWN
NONMMUT086537.1	-1.045831415	1.32x10 <sup>-2</sup>	DOWN
NONMMUT114202.1	-2.131860978	1.22x10 <sup>-2</sup>	DOWN
NONMMUT141029.1	Inf	1.16x10 <sup>-3</sup>	DOWN
NONMMUT017326.2	-1.456513323	1.24x10 <sup>-3</sup>	DOWN
MSTRG.4792.2	Inf	2.84x10 <sup>-3</sup>	DOWN
NONMMUT029203.2	-2.206411349	1.97x10 <sup>-2</sup>	DOWN
NONMMUT153016.1	Inf	2.89x10 <sup>-3</sup>	DOWN
NONMMUT115964.1	-1.062727295	7.35x10 <sup>-3</sup>	DOWN
NONMMUT145544.1	-2.61221583	3.20x10 <sup>-4</sup>	DOWN
NONMMUT007943.2	Inf	4.70x10 <sup>-3</sup>	DOWN
NONMMUT143660.1	-5.0404979	2.93x10 <sup>-4</sup>	DOWN
NONMMUT025167.2	-1.863216767	1.47x10 <sup>-2</sup>	DOWN
ENSMUST00000199119	Inf	5.53x10 <sup>-3</sup>	DOWN
NONMMUT070692.2	-2.211347498	2.71x10 <sup>-2</sup>	DOWN
NONMMUT152503.1	Inf	4.44x10 <sup>-3</sup>	DOWN
NONMMUT114775.1	-1.079042723	2.94x10 <sup>-2</sup>	DOWN
ENSMUST00000180917	Inf	4.13x10 <sup>-3</sup>	DOWN
NONMMUT043204.2	-4.333227559	6.64x10 <sup>-4</sup>	DOWN
NONMMUT147141.1	Inf	3.43x10 <sup>-3</sup>	DOWN
NONMMUT144580.1	Inf	3.82x10 <sup>-3</sup>	DOWN
NONMMUT148343.1	Inf	4.55x10 <sup>-3</sup>	DOWN
MSTRG.49189.21	-3.080280388	1.15x10 <sup>-2</sup>	DOWN
NONMMUT057795.2	-1.786107539	2.68x10 <sup>-2</sup>	DOWN
NONMMUT148745.1	-2.314622801	1.28x10 <sup>-2</sup>	DOWN
ENSMUST00000113496	Inf	7.07x10 <sup>-3</sup>	DOWN
NONMMUT025316.2	Inf	4.57x10 <sup>-3</sup>	DOWN
NONMMUT152535.1	Inf	1.29x10 <sup>-3</sup>	DOWN
NONMMUT125164.1	-1.229330046	7.56x10 <sup>-3</sup>	DOWN
NONMMUT065779.2	-1.783278498	1.35x10 <sup>-3</sup>	DOWN
NONMMUT007934.2	Inf	1.31x10 <sup>-3</sup>	DOWN
NONMMUT027894.2	-3.086493014	9.90x10 <sup>-3</sup>	DOWN
NONMMUT070911.2	-1.830741426	3.13x10 <sup>-2</sup>	DOWN
NONMMUT148714.1	Inf	5.80x10 <sup>-3</sup>	DOWN
NONMMUT071529.2	-2.140512761	9.16x10 <sup>-3</sup>	DOWN
NONMMUT148801.1	-1.274614405	3.20x10 <sup>-3</sup>	DOWN
NONMMUT142531.1	Inf	6.51x10 <sup>-3</sup>	DOWN
NONMMUT146195.1	Inf	7.65x10 <sup>-3</sup>	DOWN
NONMMUT033102.2	-2.921525258	1.69x10 <sup>-5</sup>	DOWN
ENSMUST00000061046	Inf	7.66x10 <sup>-3</sup>	DOWN
NONMMUT064629.2	Inf	5.08x10 <sup>-3</sup>	DOWN
NONMMUT147609.1	-2.999061582	1.18x10 <sup>-2</sup>	DOWN
ENSMUST00000165647	-1.88344202	4.59x10 <sup>-2</sup>	DOWN
NONMMUT007935.2	Inf	2.48x10 <sup>-3</sup>	DOWN
NONMMUT147217.1	Inf	5.85x10 <sup>-3</sup>	DOWN
NONMMUT152912.1	-2.219706804	4.03x10 <sup>-3</sup>	DOWN
NONMMUT057695.2	-3.892768279	1.89x10 <sup>-4</sup>	DOWN
NONMMUT122967.1	Inf	6.97x10 <sup>-3</sup>	DOWN
NONMMUT047453.2	-4.368817001	4.50x10 <sup>-4</sup>	DOWN
NONMMUT006859.2	-1.882015346	7.31x10 <sup>-3</sup>	DOWN
NONMMUT109850.1	-2.405494421	1.02x10 <sup>-2</sup>	DOWN
NONMMUT130078.1	-1.332084582	6.19x10 <sup>-4</sup>	DOWN
NONMMUT054414.2	-2.721309294	2.28x10 <sup>-2</sup>	DOWN

Table SI. Continued.

B, MH vs. HD			
lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT048447.2	-1.381692898	4.19x10 <sup>-3</sup>	DOWN
NONMMUT027011.2	-1.066376009	4.34x10 <sup>-2</sup>	DOWN
NONMMUT131821.1	Inf	9.64x10 <sup>-3</sup>	DOWN
NONMMUT007913.2	Inf	7.85x10 <sup>-3</sup>	DOWN
NONMMUT140589.1	Inf	7.85x10 <sup>-3</sup>	DOWN
NONMMUT051999.2	-1.050648963	3.81x10 <sup>-2</sup>	DOWN
NONMMUT015528.2	Inf	1.10x10 <sup>-2</sup>	DOWN
ENSMUST00000209366	Inf	1.01x10 <sup>-2</sup>	DOWN
NONMMUT013183.2	-1.209472202	3.74x10 <sup>-3</sup>	DOWN
NONMMUT144906.1	-1.809143549	7.06x10 <sup>-3</sup>	DOWN
NONMMUT003194.2	-1.209411893	1.87x10 <sup>-2</sup>	DOWN
NONMMUT139224.1	-3.18574103	4.07x10 <sup>-2</sup>	DOWN
ENSMUST00000187199	Inf	2.52x10 <sup>-3</sup>	DOWN
NONMMUT009055.2	-1.61996536	2.69x10 <sup>-4</sup>	DOWN
NONMMUT070024.2	-3.647817458	2.20x10 <sup>-2</sup>	DOWN
NONMMUT086595.1	-2.685748215	4.47x10 <sup>-2</sup>	DOWN
NONMMUT036432.2	Inf	9.75x10 <sup>-3</sup>	DOWN
NONMMUT058609.2	-1.470192775	2.47x10 <sup>-3</sup>	DOWN
NONMMUT033080.2	Inf	9.67x10 <sup>-3</sup>	DOWN
NONMMUT141034.1	-1.234795902	1.38x10 <sup>-2</sup>	DOWN
NONMMUT054546.2	Inf	1.09x10 <sup>-2</sup>	DOWN
NONMMUT105067.1	-1.77485768	6.71x10 <sup>-3</sup>	DOWN
NONMMUT030905.2	Inf	1.01x10 <sup>-2</sup>	DOWN
ENSMUST00000180112	-3.304544652	4.53x10 <sup>-2</sup>	DOWN
NONMMUT097180.1	-3.029642349	4.02x10 <sup>-2</sup>	DOWN
NONMMUT148903.1	Inf	1.14x10 <sup>-2</sup>	DOWN
NONMMUT107786.1	Inf	9.36x10 <sup>-3</sup>	DOWN
NONMMUT037372.2	-1.058871475	2.26x10 <sup>-2</sup>	DOWN
NONMMUT007940.2	-3.504821032	1.65x10 <sup>-2</sup>	DOWN
NONMMUT043196.2	Inf	1.38x10 <sup>-2</sup>	DOWN
NONMMUT130073.1	-1.961072046	3.12x10 <sup>-4</sup>	DOWN
NONMMUT004140.2	-2.913684179	2.30x10 <sup>-2</sup>	DOWN
NONMMUT060889.2	Inf	1.24x10 <sup>-2</sup>	DOWN
NONMMUT141518.1	-1.476020575	4.11x10 <sup>-2</sup>	DOWN
NONMMUT142728.1	-2.382838554	1.79x10 <sup>-2</sup>	DOWN
NONMMUT032279.2	-1.592103904	2.82x10 <sup>-2</sup>	DOWN
NONMMUT026664.2	Inf	1.49x10 <sup>-2</sup>	DOWN
ENSMUST00000126679	Inf	1.61x10 <sup>-2</sup>	DOWN
NONMMUT074311.2	Inf	1.20x10 <sup>-2</sup>	DOWN
NONMMUT086601.1	-2.157489489	3.48x10 <sup>-2</sup>	DOWN
NONMMUT146807.1	-2.252295245	8.14x10 <sup>-3</sup>	DOWN
NONMMUT034105.2	-3.819322727	2.22x10 <sup>-2</sup>	DOWN
MSTRG.12172.1	-1.355845582	4.94x10 <sup>-3</sup>	DOWN
NONMMUT149994.1	-1.793311383	3.05x10 <sup>-2</sup>	DOWN
ENSMUST00000172812	-3.715889795	1.67x10 <sup>-3</sup>	DOWN
NONMMUT024036.2	-1.166547699	7.99x10 <sup>-3</sup>	DOWN
NONMMUT149576.1	Inf	6.26x10 <sup>-7</sup>	DOWN
ENSMUST00000124198	-1.403457074	1.44x10 <sup>-2</sup>	DOWN
NONMMUT141030.1	Inf	5.80x10 <sup>-3</sup>	DOWN
NONMMUT152910.1	-2.193891776	1.16x10 <sup>-3</sup>	DOWN
NONMMUT064968.2	-1.087656748	9.91x10 <sup>-3</sup>	DOWN
ENSMUST00000209288	-1.50303303	2.93x10 <sup>-3</sup>	DOWN
NONMMUT053985.2	Inf	1.67x10 <sup>-2</sup>	DOWN
NONMMUT115962.1	-1.229140184	8.05x10 <sup>-3</sup>	DOWN



Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
ENSMUST00000180598	Inf	1.81x10 <sup>-2</sup>	DOWN
NONMMUT141020.1	Inf	6.01x10 <sup>-3</sup>	DOWN
NONMMUT082453.1	Inf	3.39x10 <sup>-2</sup>	DOWN
NONMMUT044504.2	-3.544383012	3.53x10 <sup>-4</sup>	DOWN
NONMMUT115020.1	-2.307606709	2.33x10 <sup>-2</sup>	DOWN
ENSMUST00000134624	Inf	1.94x10 <sup>-2</sup>	DOWN
ENSMUST00000182639	Inf	1.93x10 <sup>-2</sup>	DOWN
ENSMUST00000144078	Inf	1.81x10 <sup>-2</sup>	DOWN
NONMMUT138865.1	Inf	1.82x10 <sup>-2</sup>	DOWN
NONMMUT078911.1	Inf	1.82x10 <sup>-2</sup>	DOWN
NONMMUT141016.1	Inf	1.95x10 <sup>-2</sup>	DOWN
NONMMUT153495.1	-2.360259239	2.58x10 <sup>-2</sup>	DOWN
NONMMUT153161.1	-1.370352857	3.73x10 <sup>-2</sup>	DOWN
NONMMUT048652.2	Inf	2.45x10 <sup>-3</sup>	DOWN
NONMMUT103558.1	Inf	1.99x10 <sup>-2</sup>	DOWN
NONMMUT021254.2	Inf	1.97x10 <sup>-2</sup>	DOWN
ENSMUST00000191087	Inf	2.90x10 <sup>-2</sup>	DOWN
NONMMUT138980.1	-4.097742974	2.75x10 <sup>-2</sup>	DOWN
NONMMUT005126.2	-1.981578868	1.64x10 <sup>-2</sup>	DOWN
ENSMUST00000180684	Inf	1.63x10 <sup>-2</sup>	DOWN
NONMMUT140551.1	Inf	2.16x10 <sup>-2</sup>	DOWN
ENSMUST00000154082	Inf	2.39x10 <sup>-3</sup>	DOWN
NONMMUT073559.2	Inf	2.57x10 <sup>-2</sup>	DOWN
NONMMUT148410.1	Inf	8.87x10 <sup>-4</sup>	DOWN
NONMMUT063460.2	-3.019761692	1.05x10 <sup>-2</sup>	DOWN
NONMMUT033828.2	-1.780457848	4.73x10 <sup>-2</sup>	DOWN
ENSMUST00000215521	Inf	2.09x10 <sup>-2</sup>	DOWN
NONMMUT030906.2	Inf	2.46x10 <sup>-2</sup>	DOWN
NONMMUT150654.1	-1.479945041	1.59x10 <sup>-2</sup>	DOWN
NONMMUT147315.1	-1.228229301	3.57x10 <sup>-2</sup>	DOWN
NONMMUT102067.1	-1.914948647	1.52x10 <sup>-3</sup>	DOWN
ENSMUST00000168521	Inf	2.02x10 <sup>-2</sup>	DOWN
NONMMUT007916.2	Inf	2.42x10 <sup>-2</sup>	DOWN
NONMMUT135634.1	-1.445822728	1.67x10 <sup>-2</sup>	DOWN
NONMMUT146809.1	-2.327511177	1.45x10 <sup>-2</sup>	DOWN
NONMMUT063496.2	-1.577245834	1.73x10 <sup>-2</sup>	DOWN
MSTRG.35407.1	-1.84446454	1.88x10 <sup>-2</sup>	DOWN
NONMMUT152906.1	-2.060446031	8.41x10 <sup>-3</sup>	DOWN
ENSMUST00000181960	-2.617408374	3.13x10 <sup>-2</sup>	DOWN
NONMMUT122333.1	-2.354996777	4.62x10 <sup>-2</sup>	DOWN
NONMMUT152860.1	-1.217572844	8.25x10 <sup>-3</sup>	DOWN
NONMMUT121373.1	Inf	9.74x10 <sup>-3</sup>	DOWN
NONMMUT051325.2	-1.267448901	3.78x10 <sup>-2</sup>	DOWN
NONMMUT041201.2	Inf	2.07x10 <sup>-3</sup>	DOWN
ENSMUST00000192791	-1.915836746	5.27x10 <sup>-3</sup>	DOWN
NONMMUT060741.2	-1.36775652	2.82x10 <sup>-2</sup>	DOWN
NONMMUT059082.2	-1.831120874	4.57x10 <sup>-2</sup>	DOWN
NONMMUT032276.2	Inf	3.22x10 <sup>-2</sup>	DOWN
ENSMUST00000181942	Inf	7.46x10 <sup>-3</sup>	DOWN
NONMMUT008465.2	-1.177481376	4.20x10 <sup>-2</sup>	DOWN
NONMMUT001383.2	-1.058292695	3.89x10 <sup>-2</sup>	DOWN
NONMMUT152452.1	-1.359618587	2.96x10 <sup>-3</sup>	DOWN
NONMMUT013714.2	-3.438878834	2.44x10 <sup>-3</sup>	DOWN
NONMMUT090580.1	Inf	3.63x10 <sup>-2</sup>	DOWN

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT098694.1	Inf	3.48x10 <sup>-2</sup>	DOWN
NONMMUT104560.1	Inf	3.88x10 <sup>-2</sup>	DOWN
NONMMUT126585.1	-1.507215778	3.85x10 <sup>-2</sup>	DOWN
NONMMUT152499.1	Inf	3.52x10 <sup>-2</sup>	DOWN
NONMMUT022963.2	-1.210752003	4.54x10 <sup>-2</sup>	DOWN
NONMMUT146887.1	Inf	3.32x10 <sup>-2</sup>	DOWN
ENSMUST00000147548	-2.121250746	7.62x10 <sup>-3</sup>	DOWN
NONMMUT071896.2	-2.131638648	3.41x10 <sup>-3</sup>	DOWN
ENSMUST00000146456	Inf	3.88x10 <sup>-2</sup>	DOWN
NONMMUT141021.1	-7.321913986	4.51x10 <sup>-12</sup>	DOWN
NONMMUT139995.1	-1.866879895	2.40x10 <sup>-2</sup>	DOWN
NONMMUT147937.1	Inf	3.87x10 <sup>-2</sup>	DOWN
NONMMUT041200.2	Inf	2.37x10 <sup>-4</sup>	DOWN
NONMMUT006867.2	-2.432182383	3.45x10 <sup>-2</sup>	DOWN
NONMMUT005393.2	Inf	3.90x10 <sup>-2</sup>	DOWN
NONMMUT145736.1	-1.537277738	3.81x10 <sup>-2</sup>	DOWN
NONMMUT058439.2	Inf	4.60x10 <sup>-2</sup>	DOWN
NONMMUT036136.2	-1.59480783	2.89x10 <sup>-2</sup>	DOWN
NONMMUT009045.2	-3.140543704	3.12x10 <sup>-2</sup>	DOWN
NONMMUT150171.1	Inf	3.89x10 <sup>-2</sup>	DOWN
NONMMUT031178.2	Inf	4.24x10 <sup>-2</sup>	DOWN
ENSMUST00000200021	-1.869700596	4.75x10 <sup>-2</sup>	DOWN
NONMMUT152982.1	-3.201385682	3.74x10 <sup>-2</sup>	DOWN
ENSMUST00000181430	-3.540829107	3.01x10 <sup>-3</sup>	DOWN
NONMMUT144438.1	Inf	6.11x10 <sup>-3</sup>	DOWN
NONMMUT146572.1	Inf	1.01x10 <sup>-5</sup>	DOWN
NONMMUT055271.2	Inf	3.80x10 <sup>-2</sup>	DOWN
NONMMUT007367.2	-2.675491414	2.91x10 <sup>-3</sup>	DOWN
NONMMUT142525.1	-4.065064923	2.05x10 <sup>-2</sup>	DOWN
NONMMUT021715.2	-3.368720572	1.90x10 <sup>-2</sup>	DOWN
NONMMUT025422.2	Inf	4.43x10 <sup>-2</sup>	DOWN
NONMMUT060322.2	Inf	4.59x10 <sup>-2</sup>	DOWN
NONMMUT100549.1	Inf	4.15x10 <sup>-2</sup>	DOWN
NONMMUT119510.1	Inf	4.15x10 <sup>-2</sup>	DOWN
ENSMUST00000117474	-2.515248782	1.19x10 <sup>-2</sup>	DOWN
NONMMUT106199.1	-1.572050301	3.48x10 <sup>-2</sup>	DOWN
ENSMUST00000125909	Inf	3.74x10 <sup>-2</sup>	DOWN
ENSMUST00000180812	-2.530676124	3.76x10 <sup>-2</sup>	DOWN
NONMMUT143688.1	-1.968440668	3.40x10 <sup>-2</sup>	DOWN
NONMMUT119896.1	-3.496020631	6.68x10 <sup>-3</sup>	DOWN
NONMMUT153684.1	-2.912497561	7.84x10 <sup>-3</sup>	DOWN
NONMMUT125969.1	Inf	1.76x10 <sup>-2</sup>	DOWN
NONMMUT065229.2	Inf	4.52x10 <sup>-2</sup>	DOWN
NONMMUT017986.2	-2.568374685	3.23x10 <sup>-2</sup>	DOWN
NONMMUT132880.1	-4.30699161	2.43x10 <sup>-2</sup>	DOWN
NONMMUT013146.2	-1.462538857	3.05x10 <sup>-2</sup>	DOWN
NONMMUT119878.1	Inf	2.18x10 <sup>-2</sup>	DOWN
NONMMUT148079.1	Inf	2.27x10 <sup>-2</sup>	DOWN
NONMMUT142340.1	-2.739895602	2.63x10 <sup>-2</sup>	DOWN
ENSMUST00000198462	-1.485925268	4.32x10 <sup>-2</sup>	DOWN
NONMMUT116319.1	Inf	2.37x10 <sup>-2</sup>	DOWN
NONMMUT154318.1	Inf	1.13x10 <sup>-2</sup>	DOWN
NONMMUT027451.2	-1.188347204	4.63x10 <sup>-2</sup>	DOWN
NONMMUT154200.1	-1.804199501	2.21x10 <sup>-2</sup>	DOWN

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT115037.1	-2.638217286	2.70x10 <sup>-2</sup>	DOWN
NONMMUT093832.1	-2.642286096	4.28x10 <sup>-2</sup>	DOWN
NONMMUT113628.1	-4.428913851	6.45x10 <sup>-3</sup>	DOWN
ENSMUST00000221040	-3.439825591	2.17x10 <sup>-3</sup>	DOWN
ENSMUST00000180445	-6.104514825	5.94x10 <sup>-6</sup>	DOWN
NONMMUT033604.2	-5.465616559	3.50x10 <sup>-7</sup>	DOWN
NONMMUT144447.1	-2.177027821	3.66x10 <sup>-2</sup>	DOWN
NONMMUT082978.1	Inf	3.36x10 <sup>-2</sup>	DOWN
NONMMUT112513.1	4.86643489	1.76x10 <sup>-3</sup>	UP
NONMMUT028525.2	4.352476739	9.57x10 <sup>-3</sup>	UP
NONMMUT051032.2	2.254393521	8.68x10 <sup>-3</sup>	UP
NONMMUT019814.2	Inf	9.59x10 <sup>-3</sup>	UP
ENSMUST00000100370	2.885722147	3.38x10 <sup>-3</sup>	UP
NONMMUT030701.2	1.926416375	1.04x10 <sup>-2</sup>	UP
NONMMUT004734.2	4.319357991	8.70x10 <sup>-3</sup>	UP
NONMMUT030717.2	1.290011686	3.90x10 <sup>-2</sup>	UP
NONMMUT143378.1	2.891793687	4.09x10 <sup>-2</sup>	UP
NONMMUT152973.1	Inf	2.55x10 <sup>-2</sup>	UP
NONMMUT144975.1	Inf	2.55x10 <sup>-2</sup>	UP
NONMMUT068103.2	2.658229575	2.62x10 <sup>-2</sup>	UP
NONMMUT142701.1	2.940979304	3.16x10 <sup>-2</sup>	UP
NONMMUT010586.2	1.702768208	3.09x10 <sup>-2</sup>	UP
NONMMUT054418.2	3.888229294	4.97x10 <sup>-3</sup>	UP
NONMMUT081177.1	2.441775756	2.94x10 <sup>-2</sup>	UP
NONMMUT058016.2	2.520638524	1.87x10 <sup>-3</sup>	UP
NONMMUT144899.1	2.590428045	1.55x10 <sup>-2</sup>	UP
NONMMUT148195.1	Inf	1.85x10 <sup>-5</sup>	UP
ENSMUST00000160588	Inf	2.55x10 <sup>-2</sup>	UP
NONMMUT149434.1	2.255812153	3.47x10 <sup>-2</sup>	UP
NONMMUT068736.2	3.192271036	1.90x10 <sup>-3</sup>	UP
NONMMUT153848.1	2.249655889	2.62x10 <sup>-2</sup>	UP
NONMMUT146925.1	4.319742026	3.87x10 <sup>-2</sup>	UP
NONMMUT006141.2	Inf	1.59x10 <sup>-11</sup>	UP
NONMMUT136357.1	Inf	2.82x10 <sup>-2</sup>	UP
NONMMUT140094.1	Inf	7.53x10 <sup>-3</sup>	UP
NONMMUT153657.1	2.948338624	5.64x10 <sup>-3</sup>	UP
NONMMUT144202.1	4.091950351	1.24x10 <sup>-2</sup>	UP
NONMMUT003662.2	2.517239663	1.38x10 <sup>-2</sup>	UP
NONMMUT026710.2	3.14112914	2.48x10 <sup>-2</sup>	UP
NONMMUT115606.1	2.539770155	1.29x10 <sup>-2</sup>	UP
NONMMUT140756.1	5.412772585	3.42x10 <sup>-2</sup>	UP
NONMMUT063934.2	2.092701635	1.11x10 <sup>-2</sup>	UP
NONMMUT061883.2	Inf	2.63x10 <sup>-2</sup>	UP
NONMMUT050116.2	2.127047719	2.57x10 <sup>-2</sup>	UP
NONMMUT153405.1	4.558180094	1.47x10 <sup>-2</sup>	UP
NONMMUT144630.1	2.789510846	4.01x10 <sup>-2</sup>	UP
NONMMUT145825.1	4.499106975	1.85x10 <sup>-4</sup>	UP
NONMMUT097141.1	2.362111857	4.35x10 <sup>-2</sup>	UP
NONMMUT004555.2	2.617100704	2.40x10 <sup>-3</sup>	UP
ENSMUST00000213295	2.314414517	2.35x10 <sup>-2</sup>	UP
NONMMUT146552.1	4.947740399	1.27x10 <sup>-2</sup>	UP
NONMMUT138647.1	3.788479624	8.48x10 <sup>-3</sup>	UP
NONMMUT154084.1	5.097087651	7.24x10 <sup>-3</sup>	UP
NONMMUT152504.1	Inf	8.99x10 <sup>-4</sup>	UP

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT011261.2	2.46183401	4.10x10 <sup>-3</sup>	UP
NONMMUT149345.1	3.905503141	4.89x10 <sup>-4</sup>	UP
NONMMUT006886.2	2.978184457	3.18x10 <sup>-2</sup>	UP
NONMMUT024688.2	Inf	4.28x10 <sup>-2</sup>	UP
NONMMUT056306.2	1.851488786	2.21x10 <sup>-2</sup>	UP
NONMMUT141195.1	Inf	3.15x10 <sup>-2</sup>	UP
NONMMUT041594.2	Inf	1.27x10 <sup>-4</sup>	UP
NONMMUT098269.1	2.451021513	1.73x10 <sup>-2</sup>	UP
ENSMUST00000193029	3.351632486	8.17x10 <sup>-3</sup>	UP
NONMMUT101067.1	2.245323405	2.08x10 <sup>-2</sup>	UP
NONMMUT142500.1	2.194417353	1.72x10 <sup>-2</sup>	UP
NONMMUT030880.2	3.092531967	1.32x10 <sup>-2</sup>	UP
NONMMUT093754.1	3.506326462	2.37x10 <sup>-3</sup>	UP
NONMMUT031803.2	Inf	2.27x10 <sup>-3</sup>	UP
NONMMUT007411.2	3.713364967	6.95x10 <sup>-4</sup>	UP
NONMMUT031161.2	1.797998315	3.73x10 <sup>-2</sup>	UP
NONMMUT032212.2	1.143393726	4.53x10 <sup>-2</sup>	UP
NONMMUT147140.1	Inf	3.65x10 <sup>-4</sup>	UP
NONMMUT039590.2	Inf	2.03x10 <sup>-2</sup>	UP
NONMMUT006611.2	Inf	1.62x10 <sup>-2</sup>	UP
NONMMUT136805.1	1.651313273	3.46x10 <sup>-2</sup>	UP
NONMMUT026354.2	4.208037616	8.81x10 <sup>-5</sup>	UP
NONMMUT032562.2	3.334967831	3.10x10 <sup>-3</sup>	UP
NONMMUT082864.1	2.424069129	1.31x10 <sup>-3</sup>	UP
NONMMUT139585.1	3.113187559	2.38x10 <sup>-2</sup>	UP
NONMMUT153681.1	Inf	2.16x10 <sup>-2</sup>	UP
NONMMUT107530.1	4.212328063	4.50x10 <sup>-3</sup>	UP
NONMMUT132467.1	5.762901925	3.32x10 <sup>-4</sup>	UP
NONMMUT025104.2	1.45587994	2.89x10 <sup>-2</sup>	UP
NONMMUT147940.1	3.082004088	4.65x10 <sup>-2</sup>	UP
NONMMUT009872.2	2.88790265	3.53x10 <sup>-3</sup>	UP
NONMMUT007982.2	3.67315281	1.58x10 <sup>-6</sup>	UP
NONMMUT150711.1	Inf	4.59x10 <sup>-5</sup>	UP
NONMMUT151337.1	3.606405553	1.11x10 <sup>-3</sup>	UP
NONMMUT141153.1	1.651918974	2.47x10 <sup>-2</sup>	UP
NONMMUT112017.1	1.789428627	2.41x10 <sup>-2</sup>	UP
MSTRG.41249.4	1.739701433	2.26x10 <sup>-2</sup>	UP
NONMMUT131706.1	2.282689332	1.61x10 <sup>-2</sup>	UP
NONMMUT048781.2	3.852567845	2.76x10 <sup>-3</sup>	UP
NONMMUT131713.1	2.008044238	3.49x10 <sup>-2</sup>	UP
NONMMUT085580.1	Inf	4.46x10 <sup>-2</sup>	UP
NONMMUT017121.2	2.838583202	1.78x10 <sup>-3</sup>	UP
NONMMUT144247.1	1.970340841	1.10x10 <sup>-2</sup>	UP
NONMMUT051158.2	2.514678834	2.21x10 <sup>-2</sup>	UP
NONMMUT153486.1	Inf	1.52x10 <sup>-3</sup>	UP
NONMMUT025155.2	1.963070416	2.01x10 <sup>-2</sup>	UP
NONMMUT011318.2	1.829409062	3.49x10 <sup>-2</sup>	UP
NONMMUT058645.2	Inf	1.02x10 <sup>-13</sup>	UP
MSTRG.27651.3	6.477625457	1.48x10 <sup>-3</sup>	UP
NONMMUT150096.1	3.723459186	3.53x10 <sup>-3</sup>	UP
NONMMUT005314.2	Inf	2.27x10 <sup>-3</sup>	UP
NONMMUT121631.1	2.045263898	4.26x10 <sup>-3</sup>	UP
NONMMUT002350.2	2.026081352	2.85x10 <sup>-2</sup>	UP
ENSMUST00000208008	1.364852427	2.02x10 <sup>-2</sup>	UP

Table SI. Continued.

B, MH vs. HD

lncRNA_id	log2FC	P-value	Up- or downregulated
NONMMUT006428.2	2.719949911	4.63x10 <sup>-4</sup>	UP
NONMMUT112016.1	1.532700687	1.60x10 <sup>-2</sup>	UP
NONMMUT152498.1	3.023544306	4.01x10 <sup>-2</sup>	UP
NONMMUT151822.1	Inf	8.19x10 <sup>-3</sup>	UP
NONMMUT066821.2	3.496130491	8.37x10 <sup>-3</sup>	UP
NONMMUT066790.2	4.769043001	5.60x10 <sup>-3</sup>	UP
NONMMUT055807.2	3.015396814	2.04x10 <sup>-2</sup>	UP
MSTRG.5238.1	2.849677074	1.13x10 <sup>-2</sup>	UP
ENSMUST00000201831	1.922879396	3.90x10 <sup>-2</sup>	UP
ENSMUST00000224519	3.955285386	1.01x10 <sup>-2</sup>	UP
NONMMUT146585.1	1.352389838	1.81x10 <sup>-2</sup>	UP
NONMMUT020640.2	2.08204002	1.09x10 <sup>-2</sup>	UP
NONMMUT141062.1	2.517035414	3.45x10 <sup>-2</sup>	UP
NONMMUT072927.2	Inf	4.62x10 <sup>-3</sup>	UP
NONMMUT068989.2	1.268852397	4.19x10 <sup>-2</sup>	UP
NONMMUT022944.2	3.960051587	2.82x10 <sup>-3</sup>	UP
NONMMUT106009.1	1.965440684	8.09x10 <sup>-3</sup>	UP
NONMMUT148811.1	4.652388719	3.88x10 <sup>-3</sup>	UP
MSTRG.4109.2	Inf	1.85x10 <sup>-4</sup>	UP
NONMMUT047312.2	3.04364462	5.34x10 <sup>-4</sup>	UP
NONMMUT048021.2	2.154986746	2.29x10 <sup>-2</sup>	UP
NONMMUT107096.1	Inf	4.21x10 <sup>-3</sup>	UP
NONMMUT152508.1	4.27137374	1.11x10 <sup>-2</sup>	UP
ENSMUST00000221314	3.783006308	9.67x10 <sup>-3</sup>	UP
NONMMUT036090.2	1.136178046	4.31x10 <sup>-2</sup>	UP
NONMMUT006434.2	2.413090631	3.89x10 <sup>-2</sup>	UP
NONMMUT123114.1	2.417300675	2.36x10 <sup>-3</sup>	UP
NONMMUT057244.2	3.073143489	4.71x10 <sup>-3</sup>	UP
NONMMUT006436.2	2.126955912	2.15x10 <sup>-2</sup>	UP
ENSMUST00000199653	2.489647552	1.68x10 <sup>-2</sup>	UP
ENSMUST00000211698	3.620461972	6.13x10 <sup>-3</sup>	UP
NONMMUT149462.1	Inf	2.00x10 <sup>-3</sup>	UP
NONMMUT149801.1	Inf	8.12x10 <sup>-3</sup>	UP
NONMMUT151773.1	Inf	3.55x10 <sup>-6</sup>	UP
NONMMUT006238.2	3.609060719	8.28x10 <sup>-5</sup>	UP
ENSMUST00000210633	Inf	4.98x10 <sup>-5</sup>	UP
NONMMUT140206.1	3.544611664	1.15x10 <sup>-3</sup>	UP
ENSMUST00000205051	2.853350841	1.00x10 <sup>-2</sup>	UP
NONMMUT114465.1	3.049882283	1.28x10 <sup>-2</sup>	UP
NONMMUT060208.2	4.028732884	1.93x10 <sup>-3</sup>	UP
NONMMUT031005.2	2.16900789	1.48x10 <sup>-2</sup>	UP
NONMMUT145233.1	1.299727963	2.34x10 <sup>-2</sup>	UP
NONMMUT061284.2	Inf	9.40x10 <sup>-11</sup>	UP
NONMMUT140207.1	1.296965295	4.57x10 <sup>-2</sup>	UP
NONMMUT145424.1	3.714435893	9.36x10 <sup>-3</sup>	UP
NONMMUT007730.2	2.455737744	2.76x10 <sup>-3</sup>	UP
NONMMUT138534.1	Inf	9.49x10 <sup>-5</sup>	UP
NONMMUT107580.1	2.077110832	2.76x10 <sup>-3</sup>	UP
NONMMUT141065.1	2.070324755	4.54x10 <sup>-2</sup>	UP
NONMMUT059612.2	6.325034942	2.38x10 <sup>-7</sup>	UP
NONMMUT073067.2	1.596924666	2.86x10 <sup>-2</sup>	UP
NONMMUT147866.1	4.311882142	4.35x10 <sup>-3</sup>	UP
NONMMUT118345.1	Inf	2.46x10 <sup>-12</sup>	UP
NONMMUT028469.2	3.60891407	9.25x10 <sup>-9</sup>	UP

Table SI. Continued.

B, MH vs. HD			
lncRNA_id	log2FC	P-value	Up- or downregulated
ENSMUST00000178129	5.361532514	2.01x10 <sup>-6</sup>	UP
NONMMUT140208.1	1.449325881	1.51x10 <sup>-2</sup>	UP
NONMMUT070478.2	Inf	4.39x10 <sup>-3</sup>	UP
NONMMUT119743.1	Inf	1.20x10 <sup>-2</sup>	UP
NONMMUT016686.2	1.577462314	1.12x10 <sup>-2</sup>	UP
NONMMUT037021.2	2.173368193	2.29x10 <sup>-2</sup>	UP
NONMMUT028634.2	5.665814131	1.49x10 <sup>-4</sup>	UP
ENSMUST00000180982	6.167901559	1.36x10 <sup>-3</sup>	UP
NONMMUT053361.2	5.503074989	4.79x10 <sup>-6</sup>	UP
NONMMUT039400.2	3.592047406	1.58x10 <sup>-3</sup>	UP
NONMMUT027048.2	3.432545982	3.51x10 <sup>-5</sup>	UP
ENSMUST00000196744	1.565784337	2.26x10 <sup>-3</sup>	UP
NONMMUT047572.2	3.92777072	4.83x10 <sup>-4</sup>	UP
NONMMUT051864.2	3.01565016	4.30x10 <sup>-3</sup>	UP
NONMMUT060139.2	4.349800507	4.06x10 <sup>-4</sup>	UP
NONMMUT139832.1	Inf	2.13x10 <sup>-2</sup>	UP
NONMMUT025510.2	2.163144085	6.77x10 <sup>-3</sup>	UP
NONMMUT039378.2	3.95404942	7.00x10 <sup>-4</sup>	UP
NONMMUT020648.2	2.849603847	3.48x10 <sup>-4</sup>	UP
NONMMUT143093.1	5.998040977	1.68x10 <sup>-4</sup>	UP
NONMMUT079394.1	2.927627158	1.36x10 <sup>-3</sup>	UP
NONMMUT064687.2	2.911066866	1.91x10 <sup>-3</sup>	UP
NONMMUT142291.1	2.60890198	3.66x10 <sup>-2</sup>	UP
NONMMUT041548.2	1.898902413	1.54x10 <sup>-2</sup>	UP
MSTRG.27651.8	Inf	5.41x10 <sup>-4</sup>	UP
NONMMUT065447.2	1.21051048	3.79x10 <sup>-2</sup>	UP
NONMMUT003637.2	2.31690248	2.09x10 <sup>-2</sup>	UP
NONMMUT152510.1	5.318058089	1.79x10 <sup>-3</sup>	UP
NONMMUT012087.2	4.991211774	5.74x10 <sup>-4</sup>	UP
NONMMUT027558.2	2.768789602	1.15x10 <sup>-2</sup>	UP
NONMMUT001352.2	3.174910589	5.50x10 <sup>-6</sup>	UP
NONMMUT012522.2	4.999867336	4.60x10 <sup>-5</sup>	UP
NONMMUT140201.1	3.32039253	2.31x10 <sup>-3</sup>	UP
ENSMUST00000181871	3.122975033	3.29x10 <sup>-2</sup>	UP
ENSMUST00000208358	4.13086137	3.58x10 <sup>-2</sup>	UP
NONMMUT006991.2	Inf	1.12x10 <sup>-4</sup>	UP
NONMMUT057179.2	1.557766731	1.96x10 <sup>-2</sup>	UP
NONMMUT000701.2	2.552032431	2.17x10 <sup>-3</sup>	UP
NONMMUT062675.2	2.844921282	2.18x10 <sup>-2</sup>	UP
NONMMUT001470.2	2.394033534	8.32x10 <sup>-5</sup>	UP
NONMMUT047231.2	1.152339922	2.82x10 <sup>-2</sup>	UP
NONMMUT011310.2	2.119318463	8.65x10 <sup>-3</sup>	UP
NONMMUT041546.2	2.363633268	2.94x10 <sup>-3</sup>	UP
NONMMUT010559.2	5.193090221	1.12x10 <sup>-16</sup>	UP
NONMMUT149997.1	Inf	4.25x10 <sup>-4</sup>	UP
NONMMUT141056.1	3.412224259	2.12x10 <sup>-2</sup>	UP
NONMMUT146591.1	Inf	9.49x10 <sup>-5</sup>	UP
NONMMUT034345.2	5.708196734	5.02x10 <sup>-6</sup>	UP

lncRNA, long non-coding RNA; ND, regular diet; HD, high-fat diet; MH, HD with metformin; FC, fold change; Inf, Fragments Per Kilobase Million=0 in any of ND, HD or MH groups.

Table SII. Differentially-expressed mRNAs found in mice fed with ND, HD or MH.

A, HD vs. ND			
Gene name	log2FC	P-value	Up- or downregulated
Cfd	7.102398	1.24x10 <sup>-50</sup>	UP
Aacs	3.578468	1.97x10 <sup>-37</sup>	UP
Foxq1	3.572630	3.28x10 <sup>-32</sup>	UP
Phlda1	2.502932	5.15x10 <sup>-30</sup>	UP
Chac1	3.581907	8.30x10 <sup>-26</sup>	UP
Cish	2.878978	8.77x10 <sup>-25</sup>	UP
Themis	4.129499	1.23x10 <sup>-20</sup>	UP
Gm43756	7.064607	1.60x10 <sup>-18</sup>	UP
Gm28592	3.115101	2.17x10 <sup>-18</sup>	UP
Gm28182	2.584522	2.47x10 <sup>-16</sup>	UP
3110082I17Rik	2.015142	4.18x10 <sup>-16</sup>	UP
Nrep	2.163696	1.94x10 <sup>-14</sup>	UP
Gadd45a	2.633552	1.29x10 <sup>-13</sup>	UP
Mup-ps14	4.979470	1.24x10 <sup>-12</sup>	UP
Cidea	7.449365	2.74x10 <sup>-12</sup>	UP
Aqp8	1.734631	7.79x10 <sup>-12</sup>	UP
Socs3	2.417039	1.30x10 <sup>-11</sup>	UP
Lgals1	2.525710	1.81x10 <sup>-11</sup>	UP
Mas1	5.097515	2.27x10 <sup>-11</sup>	UP
Gm26876	4.776975	8.33x10 <sup>-11</sup>	UP
Gbp11	2.976467	1.21x10 <sup>-10</sup>	UP
Adgrv1	3.122875	1.71x10 <sup>-10</sup>	UP
A530084C06Rik	2.308730	4.86x10 <sup>-10</sup>	UP
Rnf186	1.994529	8.10x10 <sup>-10</sup>	UP
Myc	2.508489	1.58x10 <sup>-9</sup>	UP
Mogat1	2.514068	1.66x10 <sup>-9</sup>	UP
Sptlc3	Inf	1.80x10 <sup>-9</sup>	UP
Gm11967	1.820830	2.48x10 <sup>-9</sup>	UP
Gm27551	5.118398	4.13x10 <sup>-9</sup>	UP
Clec2h	3.253263	1.07x10 <sup>-8</sup>	UP
Serpina4-ps1	2.210108	1.08x10 <sup>-8</sup>	UP
Iqgap3	3.397797	1.10x10 <sup>-8</sup>	UP
Rhbg	1.732290	1.43x10 <sup>-8</sup>	UP
Lcn2	7.027619	3.94x10 <sup>-7</sup>	UP
Saa2	7.897744	5.13x10 <sup>-7</sup>	UP
Saa1	7.224176	6.76x10 <sup>-7</sup>	UP
Cyp21a1	4.150918	7.98x10 <sup>-7</sup>	UP
Bach2it1	1.869377	1.13x10 <sup>-6</sup>	UP
Orm2	5.645412	1.67x10 <sup>-6</sup>	UP
Gm31522	1.499420	2.73x10 <sup>-6</sup>	UP
Arhgef39	2.701685	2.91x10 <sup>-6</sup>	UP
Gm15234	2.181324	4.04x10 <sup>-6</sup>	UP
Tpx2	1.924326	5.50x10 <sup>-6</sup>	UP
Mup-ps12	2.887347	6.46x10 <sup>-6</sup>	UP
1700037H04Rik	1.196150	8.84x10 <sup>-6</sup>	UP
Anxa8	4.692562	1.39x10 <sup>-5</sup>	UP
Gadd45g	1.152028	1.56x10 <sup>-5</sup>	UP
Gm27702	1.848981	1.70x10 <sup>-5</sup>	UP
Ccnb1-ps	3.621650	1.72x10 <sup>-5</sup>	UP
Mmp13	3.969449	2.20x10 <sup>-5</sup>	UP
Saa3	3.896448	2.60x10 <sup>-5</sup>	UP
Rgs16	2.825447	3.99x10 <sup>-5</sup>	UP
Ntrk2	1.450729	4.72x10 <sup>-5</sup>	UP
Ly6d	1.440963	7.66x10 <sup>-5</sup>	UP

Table SII. Continued.

A, HD vs. ND			
Gene name	log2FC	P-value	Up- or downregulated
Hcn3	1.322850	1.16x10 <sup>-4</sup>	UP
Gm48566	2.516374	1.33x10 <sup>-4</sup>	UP
Gm45244	1.432015	1.40x10 <sup>-4</sup>	UP
Ccl2	1.984958	1.49x10 <sup>-4</sup>	UP
Cdc20	2.439528	1.80x10 <sup>-4</sup>	UP
D630003M21Rik	1.311722	1.81x10 <sup>-4</sup>	UP
Ptk6	2.271289	2.42x10 <sup>-4</sup>	UP
Cyp2b13	4.536355	2.71x10 <sup>-4</sup>	UP
Sbspon	3.034836	2.99x10 <sup>-4</sup>	UP
B430212C06Rik	3.720720	3.06x10 <sup>-4</sup>	UP
5330409N07Rik	1.948291	4.48x10 <sup>-4</sup>	UP
Gm10680	1.264191	5.79x10 <sup>-4</sup>	UP
Gm32468	1.899108	6.02x10 <sup>-4</sup>	UP
Crybb3	2.888309	6.05x10 <sup>-4</sup>	UP
Gm21983	Inf	6.33x10 <sup>-4</sup>	UP
Wfdc2	1.187518	6.33x10 <sup>-4</sup>	UP
Dcst2	4.327108	8.20x10 <sup>-4</sup>	UP
Gm5763	1.181818	1.24x10 <sup>-3</sup>	UP
Slc28a1	2.867748	1.31x10 <sup>-3</sup>	UP
Hp	1.684777	1.47x10 <sup>-3</sup>	UP
Gm10390	1.955650	1.56x10 <sup>-3</sup>	UP
Ckap2l	2.013615	1.97x10 <sup>-3</sup>	UP
Jph2	2.062818	2.39x10 <sup>-3</sup>	UP
Gm10851	3.666086	2.44x10 <sup>-3</sup>	UP
Ska3	1.881549	2.46x10 <sup>-3</sup>	UP
Shcbp1	1.856388	3.04x10 <sup>-3</sup>	UP
Ifi2712b	1.233170	3.38x10 <sup>-3</sup>	UP
Akr1c18	3.639468	3.83x10 <sup>-3</sup>	UP
Tctex1d4	3.467438	4.06x10 <sup>-3</sup>	UP
Rdh9	1.709521	4.34x10 <sup>-3</sup>	UP
Gm41144	Inf	5.04x10 <sup>-3</sup>	UP
5730435O14Rik	1.670732	5.77x10 <sup>-3</sup>	UP
Gm28634	Inf	7.46x10 <sup>-3</sup>	UP
Gm20458	Inf	7.48x10 <sup>-3</sup>	UP
Gm26775	Inf	7.53x10 <sup>-3</sup>	UP
Hr	1.004012	8.19x10 <sup>-3</sup>	UP
Ces2h	1.461940	8.20x10 <sup>-3</sup>	UP
Rassf10	1.680610	8.30x10 <sup>-3</sup>	UP
Gm17121	1.140199	9.08x10 <sup>-3</sup>	UP
Gm8909	1.929946	9.59x10 <sup>-3</sup>	UP
1700021J08Rik	2.600475	1.00x10 <sup>-2</sup>	UP
Ikzf4	1.119434	1.05x10 <sup>-2</sup>	UP
Ighv1-18	Inf	1.06x10 <sup>-2</sup>	UP
Ube2c	1.371096	1.07x10 <sup>-2</sup>	UP
Sgo2a	1.285880	1.07x10 <sup>-2</sup>	UP
Ces2b	1.476916	1.08x10 <sup>-2</sup>	UP
Serpina3b	1.975768	1.13x10 <sup>-2</sup>	UP
Gm11212	3.850386	1.24x10 <sup>-2</sup>	UP
mt-Tc	1.147295	1.28x10 <sup>-2</sup>	UP
Gm31600	1.516339	1.64x10 <sup>-2</sup>	UP
Cd209a	1.240887	1.72x10 <sup>-2</sup>	UP
Als2cr12	2.459625	1.73x10 <sup>-2</sup>	UP
A430073D23Rik	2.656658	1.77x10 <sup>-2</sup>	UP
Gm15821	3.352725	1.84x10 <sup>-2</sup>	UP



Table SII. Continued.

A, HD vs. ND			
Gene name	log2FC	P-value	Up- or downregulated
Pls1	1.308698	1.84x10 <sup>-2</sup>	UP
Gm43917	2.450415	1.85x10 <sup>-2</sup>	UP
Gm6135	1.463294	1.94x10 <sup>-2</sup>	UP
Atp1a3	1.427701	1.95x10 <sup>-2</sup>	UP
Zfp808	1.318059	2.04x10 <sup>-2</sup>	UP
Mansc4	1.286562	2.06x10 <sup>-2</sup>	UP
Gm15348	4.046400	2.07x10 <sup>-2</sup>	UP
BC067074	1.100958	2.11x10 <sup>-2</sup>	UP
4932411K12Rik	2.001703	2.13x10 <sup>-2</sup>	UP
Zfp978	2.154933	2.14x10 <sup>-2</sup>	UP
Gm11619	1.468700	2.23x10 <sup>-2</sup>	UP
Dnah11	1.209350	2.78x10 <sup>-2</sup>	UP
Gprc5a	1.385432	2.88x10 <sup>-2</sup>	UP
Gm49095	1.956512	3.08x10 <sup>-2</sup>	UP
Gm48795	1.371809	3.12x10 <sup>-2</sup>	UP
Lrrc39	1.111866	3.53x10 <sup>-2</sup>	UP
Gm42587	1.227210	3.85x10 <sup>-2</sup>	UP
Gm47790	3.015338	4.04x10 <sup>-2</sup>	UP
Slc47a2	1.129529	4.24x10 <sup>-2</sup>	UP
Ebf3	-2.044633	4.93x10 <sup>-2</sup>	DOWN
Mir3068	-1.242104	4.77x10 <sup>-2</sup>	DOWN
Gm47147	Inf	4.54x10 <sup>-2</sup>	DOWN
Gm42836	Inf	4.49x10 <sup>-2</sup>	DOWN
Sidt1	-1.284115	3.74x10 <sup>-2</sup>	DOWN
Slc4a5	-2.799238	3.66x10 <sup>-2</sup>	DOWN
Gm45753	-3.035576	3.57x10 <sup>-2</sup>	DOWN
1810013D15Rik	-1.021073	2.50x10 <sup>-2</sup>	DOWN
Gm23445	-1.382136	2.29x10 <sup>-2</sup>	DOWN
Hdx	-1.163874	2.27x10 <sup>-2</sup>	DOWN
Mir8097	-2.901827	2.15x10 <sup>-2</sup>	DOWN
Gm9025	-2.463844	2.14x10 <sup>-2</sup>	DOWN
Gm44224	-1.537712	1.96x10 <sup>-2</sup>	DOWN
Adat3	-2.345512	1.94x10 <sup>-2</sup>	DOWN
Zfp422	-1.039810	1.69x10 <sup>-2</sup>	DOWN
Cabyr	-1.302456	1.64x10 <sup>-2</sup>	DOWN
Gm9916	-1.473988	1.42x10 <sup>-2</sup>	DOWN
Zfp804b	-2.264639	1.31x10 <sup>-2</sup>	DOWN
Bcas3os1	Inf	1.27x10 <sup>-2</sup>	DOWN
Psm8	-1.107980	1.26x10 <sup>-2</sup>	DOWN
Gm37660	-1.417403	1.24x10 <sup>-2</sup>	DOWN
Chst4	Inf	1.09x10 <sup>-2</sup>	DOWN
Gm10728	-1.418026	1.02x10 <sup>-2</sup>	DOWN
Usf3	-2.087752	8.18x10 <sup>-3</sup>	DOWN
Gm26871	-1.281593	6.45x10 <sup>-3</sup>	DOWN
Rnase10	-3.779923	5.58x10 <sup>-3</sup>	DOWN
Snora73a	-1.659874	3.81x10 <sup>-3</sup>	DOWN
Gm15842	-1.072109	3.65x10 <sup>-3</sup>	DOWN
Ppp1r3g	-3.305166	3.31x10 <sup>-3</sup>	DOWN
Gm17108	-1.469128	3.04x10 <sup>-3</sup>	DOWN
Fkbp5	-1.052135	3.04x10 <sup>-3</sup>	DOWN
Abca14	-1.618418	2.98x10 <sup>-3</sup>	DOWN
Adgrf1	-1.341829	2.45x10 <sup>-3</sup>	DOWN
Gm128	Inf	2.10x10 <sup>-3</sup>	DOWN
Gm32540	-1.422205	2.00x10 <sup>-3</sup>	DOWN

Table SII. Continued.

A, HD vs. ND			
Gene name	log2FC	P-value	Up- or downregulated
9430083B18Rik	-1.742789	1.96x10 <sup>-3</sup>	DOWN
Zbtb9	-3.158510	1.53x10 <sup>-3</sup>	DOWN
Rnu3b4	-2.958732	9.75x10 <sup>-4</sup>	DOWN
Cyp2j8	-2.268483	8.82x10 <sup>-4</sup>	DOWN
Ube2l3	-1.706833	7.92x10 <sup>-4</sup>	DOWN
Gm47438	-1.750467	6.48x10 <sup>-4</sup>	DOWN
Ager	-2.285689	5.11x10 <sup>-4</sup>	DOWN
Stxbp5l	-1.906225	3.14x10 <sup>-4</sup>	DOWN
Gm11799	-1.444951	3.10x10 <sup>-4</sup>	DOWN
Gm38283	-1.931972	2.52x10 <sup>-4</sup>	DOWN
Gm37320	-1.084339	2.01x10 <sup>-4</sup>	DOWN
Rspo1	Inf	1.25x10 <sup>-4</sup>	DOWN
Upk1b	Inf	1.16x10 <sup>-4</sup>	DOWN
Adra2a	-5.053782	4.67x10 <sup>-5</sup>	DOWN
E230001N04Rik	-2.220574	3.27x10 <sup>-5</sup>	DOWN
Sstr2	-1.517427	3.23x10 <sup>-5</sup>	DOWN
Fst	-1.385281	2.62x10 <sup>-5</sup>	DOWN
Igfbp2	-1.246199	2.53x10 <sup>-5</sup>	DOWN
Gm44829	-1.482025	1.95x10 <sup>-5</sup>	DOWN
Gm28373	-5.352046	1.74x10 <sup>-5</sup>	DOWN
Mir3968	-1.678814	1.55x10 <sup>-5</sup>	DOWN
Tmem266	-1.887582	5.55x10 <sup>-6</sup>	DOWN
Gm22133	-9.489157	4.40x10 <sup>-6</sup>	DOWN
B930025P03Rik	-1.896505	2.27x10 <sup>-6</sup>	DOWN
Acot3	-2.155083	8.88x10 <sup>-7</sup>	DOWN
Cxcl13	-2.566212	3.81x10 <sup>-7</sup>	DOWN
Gm20427	-3.208015	3.30x10 <sup>-7</sup>	DOWN
Sik1	-1.135670	1.33x10 <sup>-7</sup>	DOWN
Igfbp1	-1.781520	9.32x10 <sup>-8</sup>	DOWN
Gm33543	-2.174084	2.70x10 <sup>-8</sup>	DOWN
Phf24	-2.101098	1.03x10 <sup>-8</sup>	DOWN
Apoc2	-1.366832	1.02x10 <sup>-8</sup>	DOWN
Gm27640	-5.039881	8.28x10 <sup>-9</sup>	DOWN
Nipal1	-2.554864	7.85x10 <sup>-9</sup>	DOWN
Gm45504	-4.957870	4.72x10 <sup>-9</sup>	DOWN
Gm43314	-2.083132	7.90x10 <sup>-10</sup>	DOWN
Slc13a2	-2.737573	2.03x10 <sup>-10</sup>	DOWN
Gm28323	-2.054757	1.02x10 <sup>-10</sup>	DOWN
Gm11832	-2.779832	1.01x10 <sup>-10</sup>	DOWN
Slc4a9	-3.202122	3.37x10 <sup>-11</sup>	DOWN
Etnppl	-2.140426	7.45x10 <sup>-12</sup>	DOWN
4930453N24Rik	-1.676716	3.72x10 <sup>-13</sup>	DOWN
Gm44870	-3.837168	8.90x10 <sup>-14</sup>	DOWN
Zbed6	-6.119920	1.56x10 <sup>-14</sup>	DOWN
Eif4ebp3	-2.725579	1.19x10 <sup>-18</sup>	DOWN
Gadd45b	-3.038972	4.04x10 <sup>-19</sup>	DOWN
Lepr	-4.644580	7.10x10 <sup>-55</sup>	DOWN

## B, MH vs. HD

Gene name	log2FC	P-value	Up- or downregulated
Cfd	-2.051145	1.41x10 <sup>-6</sup>	DOWN
Aacs	-1.280914	1.31x10 <sup>-5</sup>	DOWN

Table SII. Continued.

B, MH vs. HD			
Gene name	log2FC	P-value	Up- or downregulated
Foxq1	-1.247545	1.73x10 <sup>-5</sup>	DOWN
Phlda1	-1.803304	3.82x10 <sup>-8</sup>	DOWN
Chac1	-1.104198	2.48x10 <sup>-3</sup>	DOWN
Cish	-1.621644	6.85x10 <sup>-3</sup>	DOWN
Themis	-1.322426	6.50x10 <sup>-4</sup>	DOWN
Gm43756	-1.743903	4.41x10 <sup>-3</sup>	DOWN
Gm28592	-2.114167	1.51x10 <sup>-6</sup>	DOWN
Gm28182	-2.393627	3.18x10 <sup>-7</sup>	DOWN
3110082I17Rik	-1.305596	6.21x10 <sup>-8</sup>	DOWN
Nrep	-1.336429	5.13x10 <sup>-9</sup>	DOWN
Gadd45a	-1.319588	1.49x10 <sup>-5</sup>	DOWN
Mup-ps14	-1.647291	1.27x10 <sup>-3</sup>	DOWN
Cidea	-2.794620	3.40x10 <sup>-3</sup>	DOWN
Aqp8	-1.406878	7.08x10 <sup>-8</sup>	DOWN
Socs3	-1.205874	3.08x10 <sup>-3</sup>	DOWN
Lgals1	-1.517038	2.25x10 <sup>-5</sup>	DOWN
Mas1	-2.845129	1.08x10 <sup>-5</sup>	DOWN
Gm26876	-2.916657	9.81x10 <sup>-5</sup>	DOWN
Gbp11	-1.385258	2.00x10 <sup>-4</sup>	DOWN
Adgrv1	-1.508109	1.35x10 <sup>-3</sup>	DOWN
A530084C06Rik	-1.067840	3.91x10 <sup>-3</sup>	DOWN
Rnf186	-1.238196	1.24x10 <sup>-5</sup>	DOWN
Myc	-2.093431	7.47x10 <sup>-6</sup>	DOWN
Mogat1	-1.468955	1.19x10 <sup>-4</sup>	DOWN
Sptlc3	-1.207829	4.77x10 <sup>-2</sup>	DOWN
Gm11967	-1.098758	1.86x10 <sup>-4</sup>	DOWN
Gm27551	-1.249623	1.23x10 <sup>-2</sup>	DOWN
Clec2h	-1.359496	3.48x10 <sup>-3</sup>	DOWN
Serpina4-ps1	-1.195753	1.28x10 <sup>-2</sup>	DOWN
Iqgap3	-1.373333	2.73x10 <sup>-2</sup>	DOWN
Rhbg	-1.140769	7.27x10 <sup>-5</sup>	DOWN
Lcn2	-2.768141	2.15x10 <sup>-2</sup>	DOWN
Saa2	-3.266100	1.83x10 <sup>-2</sup>	DOWN
Saa1	-2.667148	3.48x10 <sup>-2</sup>	DOWN
Cyp21a1	-2.174256	3.33x10 <sup>-3</sup>	DOWN
Bach2it1	-2.448838	2.06x10 <sup>-6</sup>	DOWN
Orm2	-2.658921	1.30x10 <sup>-2</sup>	DOWN
Gm31522	-1.127250	2.06x10 <sup>-3</sup>	DOWN
Arhgef39	-1.251109	2.27x10 <sup>-2</sup>	DOWN
Gm15234	-1.903243	1.28x10 <sup>-4</sup>	DOWN
Tpx2	-1.466222	5.40x10 <sup>-3</sup>	DOWN
Mup-ps12	-1.483477	1.99x10 <sup>-2</sup>	DOWN
1700037H04Rik	-1.012894	9.79x10 <sup>-3</sup>	DOWN
Anxa8	-2.175457	1.26x10 <sup>-2</sup>	DOWN
Gadd45g	-2.058545	1.90x10 <sup>-7</sup>	DOWN
Gm27702	-1.240101	2.83x10 <sup>-3</sup>	DOWN
Ccnb1-ps	-1.530151	4.98x10 <sup>-2</sup>	DOWN
Mmp13	-1.830039	3.49x10 <sup>-2</sup>	DOWN
Saa3	-2.131135	9.74x10 <sup>-3</sup>	DOWN
Rgs16	-1.483387	1.71x10 <sup>-2</sup>	DOWN
Ntrk2	-1.799927	3.81x10 <sup>-5</sup>	DOWN
Ly6d	-1.341735	1.07x10 <sup>-2</sup>	DOWN
Hcn3	-1.818279	8.14x10 <sup>-5</sup>	DOWN
Gm48566	-1.583794	3.67x10 <sup>-2</sup>	DOWN

Table SII. Continued.

B, MH vs. HD			
Gene name	log2FC	P-value	Up- or downregulated
Gm45244	-1.214294	2.29x10 <sup>-4</sup>	DOWN
Ccl2	-1.602203	1.59x10 <sup>-2</sup>	DOWN
Cdc20	-1.547456	1.58x10 <sup>-2</sup>	DOWN
D630003M21Rik	-1.056874	8.61x10 <sup>-3</sup>	DOWN
Ptk6	-1.422346	2.40x10 <sup>-2</sup>	DOWN
Cyp2b13	-3.470490	3.02x10 <sup>-3</sup>	DOWN
Sbspon	-3.913627	2.45x10 <sup>-4</sup>	DOWN
B430212C06Rik	-3.682171	1.06x10 <sup>-3</sup>	DOWN
5330409N07Rik	-1.882384	1.75x10 <sup>-3</sup>	DOWN
Gm10680	-1.014324	5.00x10 <sup>-2</sup>	DOWN
Gm32468	-1.428840	1.21x10 <sup>-2</sup>	DOWN
Crybb3	-2.873116	2.15x10 <sup>-3</sup>	DOWN
Gm21983	Inf	2.81x10 <sup>-3</sup>	DOWN
Wfdc2	-1.208832	2.04x10 <sup>-4</sup>	DOWN
Dcst2	-2.719074	3.30x10 <sup>-2</sup>	DOWN
Gm5763	-1.411297	1.20x10 <sup>-2</sup>	DOWN
Slc28a1	-2.518844	1.95x10 <sup>-3</sup>	DOWN
Hp	-1.186614	2.18x10 <sup>-2</sup>	DOWN
Gm10390	-1.458085	3.47x10 <sup>-2</sup>	DOWN
Ckap2l	-2.637163	1.41x10 <sup>-3</sup>	DOWN
Jph2	-1.507886	3.52x10 <sup>-2</sup>	DOWN
Gm10851	Inf	5.23x10 <sup>-4</sup>	DOWN
Ska3	-1.914215	4.01x10 <sup>-2</sup>	DOWN
Shcbp1	-1.409463	2.98x10 <sup>-2</sup>	DOWN
Ifi2712b	-1.000062	4.83x10 <sup>-3</sup>	DOWN
Akr1c18	-3.645705	1.66x10 <sup>-2</sup>	DOWN
Tctex1d4	-2.394210	4.34x10 <sup>-2</sup>	DOWN
Rdh9	-1.444281	1.55x10 <sup>-2</sup>	DOWN
Gm41144	Inf	1.33x10 <sup>-2</sup>	DOWN
5730435O14Rik	-1.605273	1.65x10 <sup>-2</sup>	DOWN
Gm28634	Inf	2.17x10 <sup>-2</sup>	DOWN
Gm20458	Inf	1.09x10 <sup>-2</sup>	DOWN
Gm26775	Inf	2.08x10 <sup>-2</sup>	DOWN
Hr	-1.365254	4.47x10 <sup>-3</sup>	DOWN
Ces2h	-1.441141	1.81x10 <sup>-2</sup>	DOWN
Rassf10	-2.372806	4.41x10 <sup>-3</sup>	DOWN
Gm17121	-1.444988	1.09x10 <sup>-2</sup>	DOWN
Gm8909	-1.916611	4.34x10 <sup>-2</sup>	DOWN
1700021J08Rik	-2.740636	2.76x10 <sup>-2</sup>	DOWN
Ikzf4	-1.321150	3.85x10 <sup>-2</sup>	DOWN
Ighv1-18	Inf	2.42x10 <sup>-2</sup>	DOWN
Ube2c	-2.234321	1.67x10 <sup>-3</sup>	DOWN
Sgo2a	-1.347067	3.15x10 <sup>-2</sup>	DOWN
Ces2b	-5.451493	1.12x10 <sup>-7</sup>	DOWN
Serpina3b	Inf	1.41x10 <sup>-4</sup>	DOWN
Gm11212	-3.313312	2.97x10 <sup>-2</sup>	DOWN
mt-Tc	-1.078621	4.73x10 <sup>-2</sup>	DOWN
Gm31600	-2.262193	2.38x10 <sup>-3</sup>	DOWN
Cd209a	-1.207045	3.42x10 <sup>-2</sup>	DOWN
Als2cr12	-3.551708	1.32x10 <sup>-2</sup>	DOWN
A430073D23Rik	-3.119584	2.53x10 <sup>-2</sup>	DOWN
Gm15821	-3.577341	3.68x10 <sup>-2</sup>	DOWN
Pls1	-2.114074	8.55x10 <sup>-3</sup>	DOWN
Gm43917	-2.590576	4.82x10 <sup>-2</sup>	DOWN

Table SII. Continued.

B, MH vs. HD			
Gene name	log2FC	P-value	Up- or downregulated
Gm6135	-1.444573	4.42x10 <sup>-2</sup>	DOWN
Atp1a3	-1.261148	3.63x10 <sup>-2</sup>	DOWN
Zfp808	-1.779945	1.43x10 <sup>-2</sup>	DOWN
Mansc4	-1.679370	1.36x10 <sup>-2</sup>	DOWN
Gm15348	-4.372646	1.67x10 <sup>-2</sup>	DOWN
BC067074	-2.134507	7.64x10 <sup>-4</sup>	DOWN
4932411K12Rik	-2.063520	4.04x10 <sup>-2</sup>	DOWN
Zfp978	-2.726062	3.48x10 <sup>-2</sup>	DOWN
Gm11619	-2.502234	9.18x10 <sup>-3</sup>	DOWN
Dnah11	-1.855155	1.37x10 <sup>-2</sup>	DOWN
Gprc5a	-3.420435	1.39x10 <sup>-3</sup>	DOWN
Gm49095	-2.224285	4.94x10 <sup>-2</sup>	DOWN
Gm48795	-3.428251	1.51x10 <sup>-3</sup>	DOWN
Lrrc39	-1.849133	1.89x10 <sup>-3</sup>	DOWN
Gm42587	-1.466728	3.72x10 <sup>-2</sup>	DOWN
Gm47790	Inf	2.54x10 <sup>-2</sup>	DOWN
Slc47a2	-1.321646	3.52x10 <sup>-2</sup>	DOWN
Ebf3	2.890585	9.42x10 <sup>-3</sup>	UP
Mir3068	1.482346	4.88x10 <sup>-2</sup>	UP
Gm47147	Inf	2.08x10 <sup>-2</sup>	UP
Gm42836	Inf	3.35x10 <sup>-2</sup>	UP
Sidt1	1.676417	1.47x10 <sup>-2</sup>	UP
Slc4a5	3.203330	1.43x10 <sup>-2</sup>	UP
Gm45753	4.141122	1.21x10 <sup>-6</sup>	UP
1810013D15Rik	1.251620	3.89x10 <sup>-2</sup>	UP
Gm23445	1.588164	2.10x10 <sup>-2</sup>	UP
Hdx	1.344117	1.83x10 <sup>-2</sup>	UP
Mir8097	3.678148	6.22x10 <sup>-3</sup>	UP
Gm9025	3.684024	4.36x10 <sup>-3</sup>	UP
Gm44224	1.637062	1.01x10 <sup>-2</sup>	UP
Adat3	2.330407	1.92x10 <sup>-2</sup>	UP
Zfp422	1.049609	2.75x10 <sup>-2</sup>	UP
Cabyr	1.323208	1.51x10 <sup>-4</sup>	UP
Gm9916	1.350597	2.45x10 <sup>-2</sup>	UP
Zfp804b	2.430546	3.73x10 <sup>-2</sup>	UP
Bcas3os1	Inf	3.70x10 <sup>-2</sup>	UP
Psmas8	1.499127	3.45x10 <sup>-4</sup>	UP
Gm37660	1.756026	1.43x10 <sup>-2</sup>	UP
Chst4	Inf	4.68x10 <sup>-2</sup>	UP
Gm10728	2.111559	6.16x10 <sup>-3</sup>	UP
Usf3	2.199649	6.10x10 <sup>-5</sup>	UP
Gm26871	1.201270	6.46x10 <sup>-3</sup>	UP
Rnase10	3.843550	8.34x10 <sup>-3</sup>	UP
Snora73a	1.662650	2.33x10 <sup>-2</sup>	UP
Gm15842	1.222220	7.11x10 <sup>-3</sup>	UP
Ppp1r3g	2.804066	1.86x10 <sup>-4</sup>	UP
Gm17108	1.627575	9.72x10 <sup>-3</sup>	UP
Fkbp5	1.373474	3.92x10 <sup>-3</sup>	UP
Abca14	1.280070	3.85x10 <sup>-2</sup>	UP
Adgrf1	1.164962	1.51x10 <sup>-2</sup>	UP
Gm128	Inf	1.57x10 <sup>-2</sup>	UP
Gm32540	1.100892	4.52x10 <sup>-2</sup>	UP
9430083B18Rik	1.355297	3.71x10 <sup>-2</sup>	UP
Zbtb9	4.076261	1.25x10 <sup>-4</sup>	UP

Table SII. Continued.

B, MH vs. HD			
Gene name	log2FC	P-value	Up- or downregulated
Rnu3b4	3.000417	1.70x10 <sup>-3</sup>	UP
Cyp2j8	1.703891	4.25x10 <sup>-2</sup>	UP
Ube2l3	1.800365	9.86x10 <sup>-4</sup>	UP
Gm47438	1.234458	3.83x10 <sup>-2</sup>	UP
Ager	1.541292	1.93x10 <sup>-2</sup>	UP
Stxbp5l	1.681420	7.40x10 <sup>-3</sup>	UP
Gm11799	1.411898	1.07x10 <sup>-3</sup>	UP
Gm38283	1.592095	1.07x10 <sup>-2</sup>	UP
Gm37320	1.071239	5.73x10 <sup>-4</sup>	UP
Rspo1	Inf	4.21x10 <sup>-3</sup>	UP
Upk1b	Inf	2.38x10 <sup>-2</sup>	UP
Adra2a	3.724951	1.58x10 <sup>-2</sup>	UP
E230001N04Rik	1.372830	1.86x10 <sup>-2</sup>	UP
Sstr2	1.044905	3.67x10 <sup>-2</sup>	UP
Fst	1.278966	3.13x10 <sup>-3</sup>	UP
Igfbp2	1.252667	2.50x10 <sup>-4</sup>	UP
Gm44829	1.369834	3.87x10 <sup>-4</sup>	UP
Gm28373	5.373178	1.20x10 <sup>-7</sup>	UP
Mir3968	1.105309	3.03x10 <sup>-2</sup>	UP
Tmem266	1.661885	1.60x10 <sup>-3</sup>	UP
Gm22133	10.023253	4.09x10 <sup>-5</sup>	UP
B930025P03Rik	1.064101	1.24x10 <sup>-2</sup>	UP
Acot3	2.024700	1.90x10 <sup>-4</sup>	UP
Cxcl13	1.380022	1.46x10 <sup>-2</sup>	UP
Gm20427	1.883385	1.38x10 <sup>-2</sup>	UP
Sik1	1.103658	3.87x10 <sup>-4</sup>	UP
Igfbp1	1.300529	1.08x10 <sup>-4</sup>	UP
Gm33543	1.467869	1.68x10 <sup>-4</sup>	UP
Phf24	1.546966	5.09x10 <sup>-3</sup>	UP
Apoc2	1.043210	1.27x10 <sup>-3</sup>	UP
Gm27640	4.386442	2.03x10 <sup>-6</sup>	UP
Nipal1	1.744737	2.31x10 <sup>-3</sup>	UP
Gm45504	3.123857	4.41x10 <sup>-2</sup>	UP
Gm43314	1.572029	9.98x10 <sup>-10</sup>	UP
Slc13a2	1.609282	5.51x10 <sup>-3</sup>	UP
Gm28323	1.139023	3.15x10 <sup>-4</sup>	UP
Gm11832	1.051993	2.54x10 <sup>-2</sup>	UP
Slc4a9	1.745328	1.60x10 <sup>-2</sup>	UP
Etnppl	1.679975	6.09x10 <sup>-4</sup>	UP
4930453N24Rik	1.473486	2.65x10 <sup>-9</sup>	UP
Gm44870	3.065729	5.73x10 <sup>-5</sup>	UP
Zbed6	6.243062	6.62x10 <sup>-125</sup>	UP
Eif4ebp3	1.237159	4.07x10 <sup>-4</sup>	UP
Gadd45b	1.391529	3.50x10 <sup>-4</sup>	UP
Lepr	1.135057	1.64x10 <sup>-3</sup>	UP

ND, regular diet; HD, high-fat diet; MH, HD with metformin; FC, fold change; Inf Fragments Per Kilobase Million=0 in any of the ND, HD or MH groups.