

Supplementary Table 7. 511 genes identified by microarray analysis

Accession	Name	Fold_Change WT/RER
NM_017461.1		1.59
XM_488847	0610010O12Rik	0.61
AK002548	0610011I19Rik	1.61
	1110004P15Rik	0.53
NM_029097.1	1110012E06Rik	1.51
NM_024228.1	1110015E22Rik	0.51
	1110020P09Rik	1.82
NM_029844.1	1110025G12Rik	4.62
NM_133187.1	1110032E23Rik	1.4
NM_026812.1	1110033O09Rik	0.27
NM_025427.1	1190002H23Rik	1.54
NM_027872.1	1200006F02Rik	1.66
NM_028760.1	1200008O12Rik	0.68
NM_028773.2	1200013B08Rik	2.7
NM_027918.1	1300017J02Rik	0.28
NM_027903.1	1300018L09Rik	0.17
NM_028065.2	1600025D17Rik	0.64
XM_131683.2	1700018O18Rik	0.59
	1700030C10Rik	2.18
XM_203404	1700091G21Rik	0.41
NM_023056.2	1810009M01Rik	0.49
AK007432	1810011E08Rik	0.62
NM_026928.1	1810014F10Rik	0.67
	1810018P12Rik	0.57
	1810027I20Rik	0.47
BC044883	1810027I20Rik	0.48
NM_198653.1	2010002H18Rik	1.89
AK008639	2200005K02Rik	0.68
NM_027309.1	2210402C18Rik	0.65
	2210408F11Rik	0.44
XM_355846	2210411K11Rik	0.63
NM_145977.1	2210413P12Rik	0.53
NM_175114	2310001H13Rik	0.7
NM_175149.3	2310022B05Rik	1.77
NM_026417.2	2310034L04Rik	1.87
NM_001002267	2310037P21Rik	0.34
NM_178618.2	2310040C09Rik	1.56
XM_486121	2310045N01Rik	0.62
NM_027172.1	2310046K01Rik	2.04
XM_133997.5	2310057J16Rik	1.87
	2310058N22Rik	2.88
NM_029621.1	2410004L22Rik	1.43
XM_125970.2	2410008K03Rik	0.61
XM_134948.2	2410076I21Rik	0.61
NM_023716.1	2410129E14Rik	1.76
	2500002B13Rik	1.64
	2510022D24Rik	1.61
NM_028243.1	2510048K03Rik	1.82
	2610014I16Rik	0.45
XM_354690	2610021K21Rik	1.46
NM_025997.1	2610204K14Rik	2.41

AK011989	2610305J24Rik	3.13
	2610312F20Rik	0.71
NM_145100.2	2700050C12Rik	0.12
NM_133746.2	2810048G17Rik	0.66
	2810407D09Rik	1.72
NM_182994.1	2810410P22Rik	1.86
XM_147329.1	2810428I15Rik	0.64
	2810484G07Rik	0.45
	2900003A17Rik	2.24
XM_355346.1	2900006F19Rik	0.6
NM_026067.2	3110010F15Rik	0.58
XM_133096.5	3321401G04Rik	2.19
	3830612M24	2.31
AK028687	4732435K05Rik	1.61
AK028848	4732462B05Rik	0.51
NM_173395.1	4832406C22	0.61
	4833416J08Rik	1.58
NM_026347.2	4833421E05Rik	2.15
NM_023884.2	4921528G01Rik	0.48
NM_023884.2	4921528G01Rik	0.5
AK015166	4930418J05Rik	1.4
NM_134041.1	4930427A07Rik	1.89
NM_026348.2	4930471O16Rik	0.52
XM_147531.1	4930527B16Rik	1.64
NM_029186.1	4930538D17Rik	2.61
XM_129477	4930541M15Rik	1.47
NM_178936.2	4930577M16Rik	2.12
	4930584B20Rik	2.14
AK007420	4933439C20Rik	0.47
XM_128281	5031439G07Rik	0.69
NM_029409.2	5230400G24Rik	1.51
	5530400B01Rik	1.44
AK017525	5730408I11Rik	1.54
XM_126359.2	5730409G07Rik	0.46
NM_028137.1	5730528L13Rik	1.6
	5830411K21Rik	2.43
NM_133762.2	5830426I05Rik	0.58
XM_130991.3	6330505N24Rik	1.64
	6430511F03	1.62
XM_131537.4	6430559E15Rik	0.46
NM_029545	6530401N04Rik	2.72
XM_489178	6620401M08Rik	2.04
AK078395	6720406L13Rik	2.28
XM_133272	6720407G21Rik	0.51
AK078781	8030481K01Rik	1.42
NM_172756	8430438L13Rik	2.07
AK078845	9030016H15Rik	1.8
NM_172488.1	9030625A04Rik	0.62
NM_027840.1	9130017C17Rik	0.66
NM_027143	9130227C08Rik	0.58
NM_146119.1	9130404D14Rik	0.45
	9330161A08Rik	3.04
NM_145469.1	9330161F08Rik	3.14

XM_128267.4	9330175B01Rik	0.65
XM_135109.4	9430077D24Rik	0.73
XM_134253.3	9430098E02Rik	0.41
NM_026739.1	9530077C05Rik	0.59
AK036615	9830141K10Rik	1.74
	9930009M05Rik	1.64
AK037271	A130002I06Rik	1.58
XM_283314.1	A330102K04Rik	0.46
	A330106M24Rik	2.5
AK079949	A530021E08Rik	3.19
NM_172310.1	A530046H20Rik	1.58
NM_177156.2	A730089K16Rik	0.58
AK080623	A830029A02Rik	1.93
	A930005H10Rik	0.47
	A930015D03Rik	0.46
	A930026B05Rik	1.48
NM_133942.1	AA960558	0.66
NM_019875.1	Abcb9	1.45
NM_145140	Abcb10	0.59
NM_207625.1	Acsl4	1.42
NM_007397.1	Acvr2b	0.62
NM_025371.1	Acy1	0.65
NM_025371.1	Acy1	0.67
NM_007408.2	Adfp	0.64
NM_007420.2	Adrb2	1.57
NM_021604.2	Agrr	2.86
NM_199035.1	Alg8	1.55
NM_199035.1	Alg8	1.63
NM_007440.2	Alox12	1.82
NM_172406.2	Als2cr3	1.43
NM_033603.2	Amn	0.69
XM_134711.3	Amotl1	0.2
XM_134711	Amotl1	0.29
NM_009673.1	Anxa5	0.57
NM_007456	Ap1m1	1.6
NM_007458.1	Ap2a1	1.59
NM_007471.1	App	0.41
NM_175105.2	Aqp11	1.89
NM_022026.2	Aqp9	9.31
NM_024191.1	Arl2bp	1.6
NM_019718.2	Arl3	1.71
NM_026139.2	Armxc2	2.95
NM_025549.1	Arrdc4	0.51
NM_007494.2	Ass1	0.39
NM_007494.2	Ass1	0.44
NM_013415.2	Atp1b2	1.58
NM_016920.1	Atp6v0a1	1.58
AK033065	AU022508	0.59
NM_027106.1	Avpi1	0.7
XM_132065.3	B3bp	1.36
NM_145222.1	B3gnt7	1.5
XM_283903.2	B430201A12Rik	1.66
AK046962	B930008A12Rik	1.4

NM_016767.1	Batf	0.66
NM_024475.2	BC002236	1.56
NM_144847.1	BC011468	0.49
	BC019510	1.63
NM_144867.1	BC019561	1.86
NM_144869.1	BC021614	2.03
NM_198167.1	BC026370	0.59
NM_145596.2	BC031407	2.23
	BC037704	0.59
	BC037704	0.61
NM_177768.2	BC038156	1.53
NM_181422.2	BC046386	0.54
NM_007566	Birc6	1.45
NM_026678.3	Blvra	1.58
NM_133195	Bruno14	0.47
NM_027292.1	Bzrpl1	2.45
	C030034I22Rik	2.62
NM_052993	C1galt1	1.36
NM_183029.1	C330012H03Rik	1.47
NM_178653.2	C330023F11Rik	0.14
	C430041B13Rik	1.65
	C430045I18Rik	1.62
NM_133787	C87860	1.58
AK050643	C920027J16Rik	0.45
NM_007598.2	Cap1	0.44
NM_007602.2	Capn5	2.85
	Capns2	0.52
NM_024495.2	Car13	0.69
NM_009810.1	Casp3	1.71
NM_007620.1	Cbr1	0.59
NM_010581.3	Cd47	1.89
XM_132099.5	Centd1	0.69
NM_178119.2	Centg2	0.69
NM_145475	Cerk	0.68
AK017479	Cgef2-pending	0.7
NM_146019.1	Chd3	0.62
NM_176844.3	Chrna5	0.3
NM_145142.1	Chst10	2.94
NM_134141.2	Ciapi1	0.6
NM_134141	Ciapi1	0.65
NM_024217.2	Cklfsf3	0.49
NM_133978.1	Cklfsf7	0.55
NM_133978.1	Cklfsf7	0.6
XM_147240.1	Clcn2	1.78
NM_021386	Cldn10	0.46
NM_023878.1	Cldn10	0.49
NM_021386.1	Cldn10	0.55
NM_028044.1	Cnn3	0.44
NM_033569.1	Cnnm2	0.65
NM_007753.1	Cpa3	0.64
NM_007754.1	Cpd	0.48
NM_007754.1	Cpd	0.56
XM_148699.3	Crebbp	0.62

NM_030004.2	Cryl1	0.63
NM_007799	Ctse	0.16
NM_007800.1	Ctsg	1.94
NM_022325.3	Ctsz	0.7
NM_019932.1	Cxcl4	2.05
NM_023785.1	Cxcl7	2.54
NM_028027.1	D10Ertd610e	1.49
NM_028027.1	D10Ertd610e	3.18
NM_172949.1	D11Ertd759e	2.09
NM_028731.2	D12Ertd551e	1.52
NM_026790.1	D12Ertd647e	0.68
NM_030697.1	D17Ertd288e	0.69
AK052245	D330012P07Rik	1.95
NM_146039	D430033N04Rik	1.71
NM_178608.2	D6Ertd253e	1.6
NM_033079.1	D6Mm5e	1.62
NM_133791.3	D8Ertd594e	0.57
NM_172921.2	D930028F11Rik	1.61
NM_177171.3	D930036F22Rik	2.62
NM_011932.1	Dapp1	0.28
NM_176845	Ddhd1	1.9
NM_013932.2	Ddx25	0.68
NM_025748.2	Deadc1	0.42
NM_010045.1	Dfy	1.83
NM_026384.2	Dgat2	0.72
NM_025522.1	Dhrs7	1.59
NM_025522.1	Dhrs7	1.6
NM_007868.1	Dmd	0.67
NM_010058.1	Dmwd	2.46
NM_053246.1	Dok4	0.62
NM_139292.1	Dp1l1	2.52
NM_133229.1	Dscr6	0.32
NM_133229.1	Dscr6	0.36
NM_013642.1	Dusp1	0.61
AK053683	E130202F10Rik	1.59
AK053696	E130208E03Rik	1.69
NM_183301.1	E2f2	1.67
NM_177733.2	E2f2	1.86
AK035116	E2f6	1.52
AK088947	E430033B07Rik	1.93
NM_010102.1	Edg6	0.58
NM_028133.1	Egln3	1.68
NM_205536.1	Elk3	0.56
NM_145158	Emilin2	0.45
NM_007932.1	Eng	0.6
NM_199016.1	Enpp4	0.32
NM_013515.1	Epb7.2	1.52
NM_010149.2	Epor	1.42
NM_007945.1	Eps8	1.66
	Etohd2	2.12
NM_010170.2	F2rl2	1.48
XM_132832	F730011J02	2.61
XM_132832.3	F730011J02	4.39

NM_010176.1	Fah	0.25
NM_025648.1	Farsla	0.54
NM_172748	Fbxl19	1.54
NM_010185.2	Fcer1g	3.15
NM_010187.1	Fcgr2b	0.52
NM_010200.2	Fgf13	0.4
NM_010211.1	Fhl1	0.57
AK089939	G430008M12Rik	0.32
NM_001033797	G430095P16Rik	0.63
NM_021356.2	Gab1	0.62
NM_011817.1	Gadd45g	1.44
NM_183358.2	Gadd45gip1	0.54
NM_134189.2	Galnt10	0.42
NM_008102.2	Gch1	0.6
NM_010266	Gda	1.59
NM_008108.1	Gdf3	0.18
NM_008110.1	Gdf9	0.54
NM_010277	Gfap	1.47
NM_013529.1	Gfpt2	0.51
NM_013529	Gfpt2	0.58
NM_008132.1	Glrp1	1.43
XM_125928	Gls2	0.59
NM_025277.1	Gng10	0.67
NM_010315.2	Gng2	0.47
NM_010327.1	Gp1bb	1.56
NM_016697.2	Gpc3	1.83
NM_172825.1	Gpr128	0.43
NM_030258.2	Gpr146	1.59
NM_008179.1	Gspt2	0.47
NM_010357.1	Gsta4	3.25
XM_133826.5	Gtf3c1	1.41
AK008731	Gtpbp2	2.05
NM_008195.1	Gys3	1.8
NM_016750.1	H2afz	0.29
XM_136972.3	H60	0.63
NM_016956.2	Hbb-b2	0.05
NM_053149.1	Hemgn	2.71
NM_022331.1	Herpud1	1.73
NM_178187.2	Hist1h2ae	0.61
NM_013551	Hmbs	1.75
NM_013551	Hmbs	3.55
XM_133550.4	Homer2	0.34
NM_178870.2	Hs3st3a1	1.86
NM_015819	Hs6st2	0.42
AK015389	Htatip2	1.42
NM_016865.2	Htatip2	7.27
NM_010492.2	Ica1	0.34
NM_010493.2	Icam1	0.7
NM_023065.2	Ifi30	1.56
NM_023065.2	Ifi30	2.06
NM_010515.1	Igf2r	1.54
NM_207205	Igsf3	1.73
XM_194109.2	Igsf3	2.24

NM_008348.1	Il10ra	1.87
NM_008353	Il12rb1	0.65
NM_010743.1	Il1rl1	0.57
AK020663	Il6ra	0.65
XM_134427.3	Inpp4b	0.28
NM_010567.1	Inpp1	0.22
NM_010567.1	Inpp1	0.62
XM_129442.3	Ipo9	2.86
NM_028833.2	Iqce	0.68
NM_020583.4	Isg20	1.67
NM_010575.1	Itga2b	1.56
AK041096	Itga4	1.91
NM_016705	Kif21a	0.56
NM_009769.2	Klf5	0.47
NM_033563.2	Klf7	1.68
NM_033563	Klf7	1.84
AK086122	Klf7	2.08
XM_203796.1	Lama5	1.51
	Lats1	0.61
NM_027400.2	Lman1	0.66
NM_175097.2	Lmo6	0.71
XM_139904.2	LOC207209	0.41
XM_127488.3	LOC218482	0.6
XM_133238.1	LOC232937	1.56
XM_133614.4	LOC233529	1.96
XM_150129.3	LOC234582	1.55
XM_146279.3	LOC244421	0.68
XM_194358.2	LOC269941	2.14
XM_203404.3	LOC276837	0.48
XM_203663.2	LOC277193	2.47
XM_147224.2	LOC328703	1.65
XM_355167.1	LOC381230	0.17
XM_355233.1	LOC381292	0.62
XM_358609.1	LOC381524	0.55
XM_358675.1	LOC381904	0.28
XM_356911.1	LOC383189	0.67
XM_357038.1	LOC383411	1.41
XM_357568.1	LOC384319	1.7
XM_359066.1	LOC386091	1.7
NM_015763	Lpin1	1.42
NM_022882	Lpin2	0.52
NM_022882.2	Lpin2	0.55
NM_008509.1	Lpl	23.06
NM_019919.2	Ltbp1	1.89
NM_175641.1	Ltbp4	0.6
NM_016753.2	Lxn	0.6
NM_146106.1	Lypla1	0.5
NM_146106.1	Lypla1	0.51
NM_010764	Man2b1	0.67
NM_010764	Man2b1	7.83
NM_025282.1	Mef2c	1.41
XM_356068.1	Mfhas1	1.63
NM_145137	Mgl2	0.61

NM_026472	Mki67ip	0.61
NM_029931.1	Mllt3	1.44
NM_008610.1	Mmp2	0.07
NM_010824.1	Mpo	1.48
NM_010824.1	Mpo	1.7
NM_026971.2	Mrpl48	1.47
NM_030116.1	Mrpl9	1.38
NM_030054.2	Mscp	1.7
NM_009074.1	Mst1r	0.11
NM_009074	Mst1r	0.17
NM_008650	Mut	0.69
NM_008437.1	Napsa	0.45
NM_008437.1	Napsa	0.52
NM_027350.1	Nars	1.6
NM_008306	Ndst1	0.52
NM_010904.2	Nefh	0.65
NM_177176.2	Nfia	0.59
NM_025533.1	Nosip	0.49
NM_022029.1	Nrgn	2.58
NM_175036	Obrgrp	1.67
NM_028091.2	Osgepl1	1.45
XM_137493	Osm	0.51
NM_008772.2	P2ry1	0.69
NM_011031	P4ha2	1.75
XM_355911.1	Pace4	0.61
XM_283545.1	Pacs1	1.65
NM_053117.2	Pard6g	0.56
NM_153565.1	Pcsk9	1.82
NM_008797.1	Pcx	1.48
NM_009981.2	Pcyt1a	0.7
XM_128552.1	Pdip	1.81
NM_172665.1	Pdk1	2.25
NM_011066.1	Per2	0.66
NM_009434	Phlda2	0.48
NM_023734.2	Pi16	0.49
NM_133779.1	Pigt	0.64
NM_020272.1	Pik3cg	0.35
NM_011099.2	Pkm2	1.41
XM_131934.4	Pkm2	1.52
NM_001004762	Pla2g4c	1.47
NM_011113.2	Plaur	0.44
NM_175175.3	Plekhf2	1.4
XM_484060	Ppm1e	1.63
NM_178726	Ppm1l	1.36
NM_178726.1	Ppm1l	1.53
NM_178726	Ppm1l	1.64
NM_178726.1	Ppm1l	1.64
NM_008911.1	Ppox	1.65
NM_033264.1	Ppp1r1c	0.68
NM_011563.2	Prdx2	3.17
NM_011563.2	Prdx2	15.16
NM_011158	Prkar2b	2.73
NM_011160	Prkg1	1.38

NM_175638	Prkwnk4	1.65
NM_139200.2	Pscdbp	0.47
NM_011183.1	Psen2	1.56
NM_011966	Psma4	0.69
NM_010724	Psmb8	0.63
NM_013585.1	Psmb9	0.59
NM_013782.2	Ptdss2	1.43
NM_011218.1	Ptprs	0.64
NM_133686.1	Qprt	0.52
NM_023268	Qscn6	0.61
NM_009010.2	Rad23a	1.54
NM_009010.2	Rad23a	1.81
NM_009010.2	Rad23a	2.03
NM_026418.1	Rgs10	2.22
XM_128488.3	Rgs11	1.49
NM_025846.1	Rras2	0.57
NM_009103	Rrm1	1.55
NM_013648.4	Rtn2	1.88
NM_013649.2	Ryk	0.68
NM_011315	Saa3	0.56
NM_145587.1	Sbk	0.47
XM_134455.1	Scoc	2.44
NM_133902.2	Sdsl	0.49
NM_013658.2	Sema4a	0.62
XM_354694.1	Serpina3g	1.56
NM_009201.1	Slc1a5	1.75
NM_009201.1	Slc1a5	1.84
NM_011401.2	Slc2a3	0.7
NM_011403.1	Slc4a1	4.9
NM_008135.1	Slc6a9	1.84
NM_011405.1	Slc7a7	1.61
NM_023908.1	Slco3a1	0.63
NM_008539.3	Smad1	0.34
NM_176996.3	Smo	0.66
NM_013670.2	Snrpn	0.46
NM_025367.3	Sphk1	1.37
NM_011451.1	Sphk1	4.53
NM_172287.2	Spire2	1.78
NM_011465.2	Spna1	2.12
NM_026130.1	Srpr	2.5
XM_203312.2	Stx11	1.78
XM_203312.2	Stx11	4.08
NM_011539.2	Tbxas1	0.5
NM_011539	Tbxas1	0.67
NM_013685.1	Tcf4	0.57
NM_009333.2	Tcf7l2	0.51
NM_011578	Tgfbr3	2.07
NM_011599.2	Tle1	1.64
NM_011599.2	Tle1	2.09
NM_134131.1	Tnfaip8	0.66
NM_144925.2	Tnrc6	1.36
NM_023141.1	Tor3a	0.47
NM_023141.1	Tor3a	0.48

NM_023141.1	Tor3a	0.67
NM_009414.1	Tph1	3.07
XM_134274.3	Tpm4	1.93
XM_128641.3	Trem1	2.05
NM_144551.3	Trib2	0.34
NM_144554.1	Trib3	1.61
NM_175093.1	Trib3	1.62
NM_144554.1	Trib3	1.77
NM_178811.3	Ttc15	0.42
NM_009442.1	Ttf1	1.39
NM_016792.2	Txnl1	8.72
XM_130172.4	Uap1l1	0.61
NM_133835.1	Ubadc1	1.86
NM_177823.2	Ubash3a	1.59
NM_011674.2	Ugt8	0.35
NM_021468.1	Unc13b	0.67
NM_009479.1	Uros	1.48
NM_175137.3	Vars2l	0.51
NM_175137	Vars2l	2.49
NM_009500	Vav2	0.5
NM_022997	Vps35	1.64
NM_011708.2	Vwf	1.61
NM_027462.2	Wars2	0.67
NM_152815.1	Wins2	0.64
XM_149921.3	Wtip	0.37
NM_009542.1	Zfp101	1.39
	Zfp125	2.21
AK047243.1		0.22
BC064076.1		0.39
100070722		0.46
XM_135753.4		0.54
AK048536.1		0.61
105670673		0.68
BC048525.1		1.62
AK081365.1		1.71
AK008866.1		1.9