

**Appendix 1: Summary of candidate genes**

<b>Gene i.d.</b>	<b>Location</b>	<b>Max LRS value and location</b>	<b>Probe set i.d. and BLAT specificity</b>	<b>Markers flanking the gene</b>	<b>Mean expression level</b>	<b>SNPs and Indels</b>
<i>Tyrp1</i>	Chr4: 80.492 Mb (80834123-80851719 bp) on the plus strand	76.91 (6-9 months, Figure 5C); Chr4: 78.698 Mb	1415862_at; 2.5	rs3658567-76.484 Mb, rs3708061-80.950 Mb	12.798	<ul style="list-style-type: none"> <li>• 1 each non-synonymous SNPs on exons 2, 3 and 5</li> <li>• 1 each synonymous SNP on exon 4 and exon 6</li> <li>• 2 each 3'UTR SNPs</li> <li>• 46 SNPs at non-splice sites</li> <li>• 3 deletions</li> </ul>
<i>Gpnm3</i>	Chr6: 49.00 Mb (49036518-49058182 bp) on the plus strand	20.0 (>13 months, Figure 5J); Chr6: 48.92 Mb	1448303_at; 10.5	rs13478744-48.680 Mb, rs4225888-49.078 Mb	11.189	<ul style="list-style-type: none"> <li>• 1 non-synonymous SNP in exon 2</li> <li>• 1 stop codon in exon 4</li> <li>• 1 each synonymous SNP in exons 3, 4 and 10</li> <li>• 49 SNPs at non-splice sites</li> <li>• 2 deletions</li> </ul>
<i>Oca2</i>	Chr7: 63.791 Mb (56239760-56536517 bp) on the plus strand	12.5 (1-2 months, Figure 5F); Chr7: 60.128 Mb	1418211_at; 11.87	rs13479251-59.660 Mb, rs4137599-62.761 Mb	10.186	<ul style="list-style-type: none"> <li>• 3 SNPs in exon 1</li> <li>• 5 each 3' UTR SNPs</li> <li>• 1 each non-synonymous SNPs in exons 23 and 24</li> <li>• 960 SNPs at non-splice sites</li> <li>• 12 insertions</li> <li>• 13 deletions</li> </ul>
<i>Myo5a</i>	Chr9: 75.065 Mb (75071015-75223688 bp) on the plus strand	10.6 (1-2 months, Figure 5F); Chr9: 74.735 Mb	1431320_a_at; 12.5	rs13480279- 74.382 Mb, rs3725904- 76.983 Mb	8.938	<ul style="list-style-type: none"> <li>• 25 SNPs at non-splice sites</li> <li>• 17 insertions</li> <li>• 18 deletions</li> </ul>
<i>Prke2</i>	Chr4: 154.634 Mb (155260120-155361391 bp) on the minus strand	12.3 (1-2 months, Figure 5F); Chr4:155.23 Mb	1454902_at; 1.2	rs13478070-155.04 Mb, rs3720634-155.28 Mb	8.98	<ul style="list-style-type: none"> <li>• 1 non-synonymous SNP in exon 7</li> <li>• 1 3'UTR SNP</li> <li>• 9 SNPs at non-splice sites</li> </ul>
<i>Zbtb20</i>	Chr16: 43.623 Mb (43247284-43619128 bp) on the plus strand	10.7 (3-5 months, Figure 5G); Chr16: 41.688 Mb	1439278_at; 11.7	rs4178244-41.340 Mb, rs4179378-43.943 Mb	10.719	<ul style="list-style-type: none"> <li>• 84 SNPs at non-splice sites</li> <li>• 3 non-synonymous exons in exon 8</li> <li>• 2 insertions</li> <li>• 2 deletions</li> </ul>