

**Table 2. Ten genes in the 2-Mb region around the AS021 locus**

Gene	Gene name	Gene ontology
Hsfy2	Heat shock transcription factor, Y linked 2	molecular function DNA binding IEA GO:0003677 MGI na//cellular component nucleus IEA GO:0005634 MGI na//biological process protein folding IEA GO:0006457 MGI na//biological process response to unfolded protein IEA GO:0006986 MGI na
SATB2	SATB family member 2	molecular function DNA binding IEA GO:0003677 MGI na//biological process development IEA GO:0007275 MGI na//cellular component nucleus IEA GO:0005634 MGI na//biological process regulation of transcription, DNA-dependent IEA GO:0006355 MGI na//molecular function transcription factor activity IEA GO:0003700 MGI na
1110034B0 5Rik		Unknown
2810022L0 2Rik		Unknown
KCTD18	Potassium channel tetramerisation domain containing 18	molecular function DNA binding IEA GO:0003677 MGI na//cellular component nucleus IEA GO:0005634 MGI na

Table 2. Continued

Gene	Gene name	Gene ontology
SGOL2	Shugoshin-like 2 ( <i>S. pombe</i> )	molecular function DNA binding IEA GO:0003677 MGI na//cellular component nucleus IEA GO:0005634 MGI na
AOX1	Aldehyde oxidase 1	molecular function aldehyde oxidase activity IDA GO:0004031 MGI 518535//biological process electron transport IEA GO:0006118 MGI na//molecular function electron transporter activity IEA GO:0005489 MGI na//molecular function iron ion binding IEA GO:0005506 MGI na//molecular function molybdenum ion binding IEA GO:0030151 MGI na//molecular function oxidoreductase activity IEA GO:0016491 MGI n
AOX3	Aldehyde oxidase 3	molecular function aldehyde oxidase activity IDA GO:0004031 MGI 11562361//molecular function electron carrier activity IDA GO:0009055 MGI 11562361,1246851//molecular function electron carrier activity ISS GO:0009055 MGI 11562361,1246851//biological process electron transport ISS GO:0006118 MGI 12466851//molecular function molybdenum ion binding IDA GO:0030151 MGI 11562361//molecular function oxidoreductase activity ISS GO:0016491 MGI 12466851
AOX4	Aldehyde oxidase 4	molecular function aldehyde oxidase activity ISS GO:0004031 MGI 11562361//molecular function electron carrier activity ISS GO:0009055 MGI 11562361,1246851//biological process electron transport ISS GO:0006118 MGI 12466851//molecular function electron transporter activity ISS GO:0005489 MGI 11562361//molecular function molybdenum ion binding ISS GO:0030151 MGI 11562361//molecular function oxidoreductase activity ISS GO:0016491 MGI 12466851
Aox3l1	Aldehyde oxidase 3-like 1	molecular function oxidoreductase activity IEA GO:0016491 MGI na