Appendix S1. SNP assay results.

1. Plot showing a Taqman™ assay for FABP4:g.2502C>G
2. SNP discovered by sequencing of genomic fragments associated with the *FABP4* gene.

Notes:

1. The *FABP4* reference sequence is NM_174314.2 and it provides the numbering for the SNP along the cDNA.
2. The genomic sequence is AAFC01136716.1 and it provides the numbering for SNP along the gDNA.
3. Note that AAFC01136716.1 is the reverse strand to the cDNA sequence. This will generate problems when designing assays because it will affect which nucleotide is the reference nucleotide. In particular, the C/G SNP will be silently reversed.

W. Barendse (17xii2008)

local_identifier NCBI_ss#
FABP4_g.6447A>G 120032873
FABP4_g.6439A>G 120032874
FABP4_g.5542A>G 120032875
FABP4_g.5520A>G 120032876
FABP4_g.3906A>G 120032877
FABP4_g.2680A>T 120032878
FABP4_g.2446A>G 120032879
FABP4_g.2502G>C 120032880
FABP4_g.2199T>C 120032881
FABP4_g.1991A>G 120032882
FABP4_g.1935C>T 120032883
FABP4_g.1850A>G 120032884
FABP4_g.1806C>G 120032885

> FABP4|Bta| genomic sequences near exon 1
#This and most of the sequences are given on the same strand as the cDNA sequence but the numbering is the same as found in AAFC01136716.1

g.6447A>G
ATTACACTGGGGTCCACTCTACACTGGAATAATATGTATGAAAAAATAAAGCTGTCGCAAAG[GA/G]CAAGATT[GA/G]TTGAA
ATTATTGGTAAAAGTCAAGGTTAAAATGTGTGGTTGT

(g.5542A>G)
AAACCAATTATTTATTTGTTTAAGTCAAACCTGTTAAATGTTGGTTGGTTGT
ATTATGGAAGGAAAAATCTATTTCTCGAAATGGTTCTCTTTTCT[T/A][AAAGTCTTT
AGATATTTTTG[AG]CTTAATATTACAACGGCAGCATGACGACAGAA

> FABP4|Bta| genomic sequences near exon 2

g.3906A>G
TCCACATTATGCCTGTTTTTGTACACCCCAAATATGTTAAAACTGAGTGA
CTCTCT[GA/G]TTGTTGCCAGCATGACGACACTTTTTT
ATTAGATCATTTTTTTTCTTCAAAGGAAGCAATGCGCTGAGATTTCTCCAAGTAT

(g.2680A>T)
>FABP4|Bta|genomic sequence near exons 3 and 4 and the 3'UTR

#note, this is the sequence used for designing the Taqman(Tm) assay in the associated manuscript.
#note, this sequence is in the same orientation as AAFC01136716.1
to ensure that anyone using the reference sequence isn't confronted with a sequence that initially doesn't make sense

!!!SO IT IS THE REVERSE COMPLEMENT OF THE cDNA SEQUENCE!!!

g.2446A>G
g.2502C>G and c.348G>C splice site exon 3 intron 3
c.348G>C

g.2199T>C
g.1991A>G and c.396A>G synonymous
g.1935C>T and c.452C>T 3'UTR
g.1850A>G and c.537A>G 3'UTR
g.1806C>G

CATGTAATTTTGTATGGTGGGCGCATGATTGTTTTTCTTTTTGCAACA
TTTCTTGTGAAATTTGAAATTGCTAAG[T/A]ACCTCAAAATAAGCAAATAAAAG
CACTCTATTTTTTTTTCCCTCCATCATTGTAATCACTTTTTTTATTATCCCCA

TTTTCTTGTAATTTAGAATTGCTAAG[T/A]ACCTCAAAATAAGCAAATAAAAG
CACTCTATTTTTTTTTCCCTCCATCATTGTAATCACTTTTTTTATTATCCCCA

CTCTAGGTAGGATAAC[G/A]ATTATGGGATGACCTAGCACTGAAATCTAGAAT

CTCTATTGGTGGTATTTTTTTCAATCGAGGCGGTTTATTT

GAGGGAATATCTTTTGATGAACATTTTTTCCTGCTCAACATTGAAGA

CAATAAATAAATAAAACATAAGTTTGTGTTCTGAGGAGTTTTACCAATA

TTTTCCTTTTGTGCCTAGGAATGTGTCATGAATGGTGTCACTGCCACCAG

CTTTGGATACGTTGTCCAAACATATATTGTT

CTTTGCTTTTGTGCCTAGGAATGTGTCATGAATGGTGTCACTGCCACCAG

AGGCTATTGAGAGAC[G/A]TAAGGCAAGGGATATTGAAATGGGATGACCTTTGC

ATCGAATCTCGAGCTTTCTG[T/C]TGGATACGTTTGCTCAACACTGATATATTGTT

TTTTCCACTAAATGCAAGAAACTGAGTTTTTCTCCAGACTGATTTTGAT

ATGTTT[G/A]TGGTGTTAAATAAAAACCTTTTTAGATTTATAAGGCTATGTAAT

[G/C]TATTATTCATATTGTTAAACA