Figure 2-2

| B | DMR1 3 | DMR1 7 | DMR2 11 | DMR3 15 |
|---|--------|--------|---------|---------|
| Sperm | ![Sperm Diagram](image) | ![Sperm Diagram](image) | ![Sperm Diagram](image) | ![Sperm Diagram](image) |
| MII Oocytes | ![MII Oocytes Diagram](image) | ![MII Oocytes Diagram](image) | ![MII Oocytes Diagram](image) | ![MII Oocytes Diagram](image) |
| Blastocysts (B6/JF1) | ![Blastocysts Diagram](image) | ![Blastocysts Diagram](image) | ![Blastocysts Diagram](image) | ![Blastocysts Diagram](image) |
| Kidney (B6/JF1) | ![Kidney Diagram](image) | ![Kidney Diagram](image) | ![Kidney Diagram](image) | ![Kidney Diagram](image) |
| Kidney (JF1/B6) | ![Kidney Diagram](image) | ![Kidney Diagram](image) | ![Kidney Diagram](image) | ![Kidney Diagram](image) |
Figure 4

A  Gpr1 (NM_146250)

A/G polymorphism at nucleotide 313

exon1 2 3

42 362

B  Kidney  Heart

| AS | S | AS | S |

321 (bp)

C

E18.5

B6/JF1

Kidney cDNA

Heart cDNA

Adult

B6/JF1

Kidney cDNA

Heart cDNA

JF1/B6

Kidney cDNA

Heart cDNA
Figure 6

A

[Diagram showing genomic locations and genetic markers]

B

[Table showing differential methylation markers across different samples]

C

[Diagram showing SNP analysis across different samples]
Supplemental Figure S3

A

|     | Fetus | Placenta | Yolk sac | Brain | Lung | Liver | Spleen | Testis |
|-----|-------|----------|----------|-------|------|-------|--------|--------|
| AS  | S     | AS       | S        | AS    | S    | AS    | S      | S      | (bp)  |

B

E13.5

|       | B6/JF1 | JF1/B6 |
|-------|--------|--------|
| Fetus | ![B6/JF1 Fetus cDNA](image) | ![JF1/B6 Fetus cDNA](image) |
| Placenta | ![B6/JF1 Placenta cDNA](image) | ![JF1/B6 Placenta cDNA](image) |
| Yolk sac | ![B6/JF1 Yolk sac cDNA](image) | ![JF1/B6 Yolk sac cDNA](image) |
| Brain | ![B6/JF1 Brain cDNA](image) | ![JF1/B6 Brain cDNA](image) |
| Lung | ![B6/JF1 Lung cDNA](image) | ![JF1/B6 Lung cDNA](image) |
| Liver | ![B6/JF1 Liver cDNA](image) | ![JF1/B6 Liver cDNA](image) |
| Spleen | ![B6/JF1 Spleen cDNA](image) | ![JF1/B6 Spleen cDNA](image) |
| Testis | ![B6/JF1 Testis cDNA](image) | ![JF1/B6 Testis cDNA](image) |