

DNA methylation and histone modification profiles of mouse organic anion transporting polypeptides

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Drug Metabolism and Disposition

Supplemental Table 1: Oligonucleotides used for the real-time PCR, bisulfite PCR and ChIP assay

Positions of primers for the real-time PCR are based on the published cDNA sequences, while those for the other experiments are relative to the TSS in the genome.

| Oligonucleotide | Orientation | Sequence (5' to 3') | Position |
|---|-------------|---------------------------|----------------|
| Primers used for the real-time PCR | | | |
| Oatp1a1 | forward | GATTGTTGGCCCGATTATTGGA | +933 to +954 |
| | reverse | GCGTGTATCAGTGGGAGTTATGGTC | +1044 to +1020 |
| Oatp1a4 | forward | GGCTTATCAATGGGAGCTTTGAG | +465 to +487 |
| | reverse | AGGCCATAACTGCACATCCTAC | +582 to +560 |
| Oatp1a6 | forward | CAGGAGCATGCAGGACCTATGA | +1931 to +1952 |
| | reverse | AGAGCTGCAGGCAATCCAAGA | +1997 to +1977 |
| Oatp1b2 | forward | ATGGGATTCCATTCACTGGTTGTA | +1899 to +1922 |
| | reverse | CACGTGCTCCACAGCTGGTTA | +2016 to +1996 |
| Oatp1c1 | forward | TTGAGCAGCAGTATGGGCAGTC | +1529 to +1550 |
| | reverse | GGCCACTGCAGGAATGTTGA | +1602 to +1583 |
| β -actin | forward | CATCCGTAAAGACCTCTATGCCAAC | +943 to +967 |
| | reverse | ATGGAGCCACCGATCCACA | +1113 to +1095 |

Supplemental Table 1

Continued

| Oligonucleotide | Orientation | Sequence (5' to 3') | Position |
|---|-------------|--------------------------------|--------------|
| Primers used for the bisulfite PCR | | | |
| <i>Oatp1a1</i> | | | |
| -696-F | forward | GTAGGTGTATATGTATATATGTGT | -696 to -673 |
| -305-R | reverse | CTCATTTAAACATTTTTCTCAACAA | -305 to -329 |
| -3-F | forward | AATAATAGAAATTTTGATTAAGGT | -3 to +21 |
| +131-R | reverse | CTTACTTTAAAAATCCTACTACTATCT | +131 to +104 |
| <i>Oatp1a4</i> | | | |
| -74-F | forward | TGAGGATTTTGAAAATAAGTGT | -74 to -53 |
| +261-R | reverse | CTAACTCTCTACTACTAAACAA | +261 to +237 |
| +199-F | forward | AGGATTATTAATTAAAGGGTGAT | +199 to +221 |
| +445-R | reverse | AACACCCACAAAAAATACTA | +445 to +424 |
| <i>Oatp1a6</i> | | | |
| -176-F | forward | GGATGTAATTTATTTGAATAGGTAATATTT | -176 to -147 |
| +363-R | reverse | CTACTCTCAATCCTCTACAA | +363 to +344 |
| <i>Oatp1c1</i> | | | |
| -275-F | forward | GGAATGGIGTTTTTTGGGATTAGT | -275 to -255 |
| +179-R | reverse | CAAACTATCCAATTCCTTTCAA | +179 to +157 |
| <i>OATP1B1</i> | | | |
| -619-F | forward | TAAGAAAATTTTAAATTGAGTTAAGT | -619 to -594 |
| -263-R | reverse | AAATATAAATACAATAAATTATTCCAA | -263 to -289 |
| +29-F | forward | AATTTAGGTAAGAATTATTGAGATTT | +29 to +54 |
| +241-R | reverse | CTACTTTATTTTTAACAATATATAAACCTA | +241 to +212 |
| <i>OATP1B3</i> | | | |
| -464-F | forward | GGTAATTTAGTATTTTATGTGAGATATTT | -464 to -436 |
| -303-R | reverse | CTATTCCAAATAAAAAATATATCAAAA | -303 to -329 |
| -22-F | forward | AAGTTAATTAATTATTTAAAGTGAGAT | -22 to +5 |
| +249-R | reverse | CTAAACTCTTCTATTTCTAAAAAAA | +249 to +224 |

Supplemental Table 1

Continued

| Oligonucleotide | Orientation | Sequence (5' to 3') | Position |
|--|-------------|---------------------------|--------------|
| Primers used for the ChIP assay | | | |
| <i>Oatp1a1</i> | forward | CCTTGGTTTTTGCATTGACTC | -148 to -128 |
| | reverse | TTGTTGTGACAAAATACCAGGA | +2 to -20 |
| <i>Oatp1a4</i> | forward | GTATTGGTTGAAAGCATTTTAGCTG | -140 to -116 |
| | reverse | GAAGACGGTCCTCTCCATGC | +10 to -10 |
| <i>Oatp1a6</i> | forward | GTGAAGGCCAGGAATCAAAG | -97 to -78 |
| | reverse | GGATCTGTGTGCTTTCTTTTCAG | +4 to -18 |
| <i>Oatp1c1</i> | forward | ATGGCTCAAAGGCTCCAG | -140 to -123 |
| | reverse | CTGATCTCACCCCTGAGCA | +10 to -9 |