Supplementary Table 5: Comparison of CNVs identified by the high density probe arrays and previously reported mouse CNP

| Comparison with Cutler et al., 2007 | | DBA/2J | A/J | CAST/EiJ | BALB/cByJ | NOD/LtJ | 129S1/SvlmJ | C57BL/10J | C57BLKS/J | C57BR/cdJ |
|---|---|---|---|---|---|---|---|---|---|---|
| | Graubert CNV covered by high density probes | 23 | 31 | 44 | N/A | 55 | 21 | 9 | 17 | 19 |
| CNV reported by | Concordant with high density probe array | 21 | 28 | 39 | | 42 | 20 | 4 | 14 | 13 |
| Cutler et al. * | Discordant with high density probe array | 1 | 0 | 4 | | 4 | 0 | 1 | 0 | 1 |
| | Gains concordant with gains in Cutler et al. | 28 | 27 | 64 | N/A | 26 | 39 | 7 | 28 | 17 |
| CNV detected by | Novel gains detected | 236 | 296 | 444 | | 385 | 327 | 76 | 115 | 131 |
| high density | Losses concordant with losses in Cutler et al. | 106 | 131 | 229 | | 141 | 77 | 27 | 67 | 34 |
| probe arrays | Novel losses detected | 658 | 542 | 719 | | 552 | 566 | 243 | 297 | 289 |

| Comparison with Graubert et al., 2007 | | DBA/2J | A/J | CAST/EiJ | BALB/cByJ | NOD/LtJ |
|---|---|---|---|---|---|---|
| | Graubert CNV covered by high density probes | 11 | 3 | 6 | 13 | 14 |
| CNV reported by | Concordant with high density probe array | 11 | 3 | 6 | 13 | 13 |
| Graubert et al. * | Discordant with high density probe array | 0 | 0 | 1 | 0 | 1 |
| | Gains concordant with gains in Graubert et al. | 23 | 21 | 36 | 32 | 12 |
| CNV detected by | Novel gains detected | 221 | 269 | 438 | 406 | 346 |
| high density | Losses concordant with losses in Graubert et al. | 37 | 61 | 46 | 66 | 64 |
| probe arrays | Novel losses detected | 638 | 534 | 792 | 543 | 566 |

| Comparison with Li et al., 2004 | | DBA/2J | A/J | CAST/EiJ | BALB/c | NOD/LtJ |
|---|---|---|---|---|---|---|
| | Li CNV covered by high density probes | 95 | N/A | N/A | 36 | 114 |
| CNV reported by | Concordant with high density probe array | 41 | | | 20 | 33 |
| Li et al. ** | Discordant with high density probe array | 9 | | | 2 | 4 |
| | Gains concordant with gains in Li et al. | 97 | N/A | N/A | 115 | 82 |
| CNV detected by | Novel gains detected | 147 | | | 323 | 276 |
| high density | Lossed concordant with losses in Li et al. | 163 | | | 172 | 165 |
| probe arrays | Novel losses detected | 512 | | | 437 | 465 |

Concord: CNV (gains/losses) reported previously confirmed by high probe density arrays.
Discordant: Gains/losses reported previously opposite to gains/losses detected by high probe density arrays.
* Due to the fine CNV structure detected by high probe density arrays, some previously reported CNV regions cover both gains and losses in our method and are counted in both "concordant" and "discordant".
** Some CNV reported previously, particularly BAC-based (Li, et al), are not detected by hight probe density arrays. Those CNVs are not counted either in "concordant" or "disconcordant".