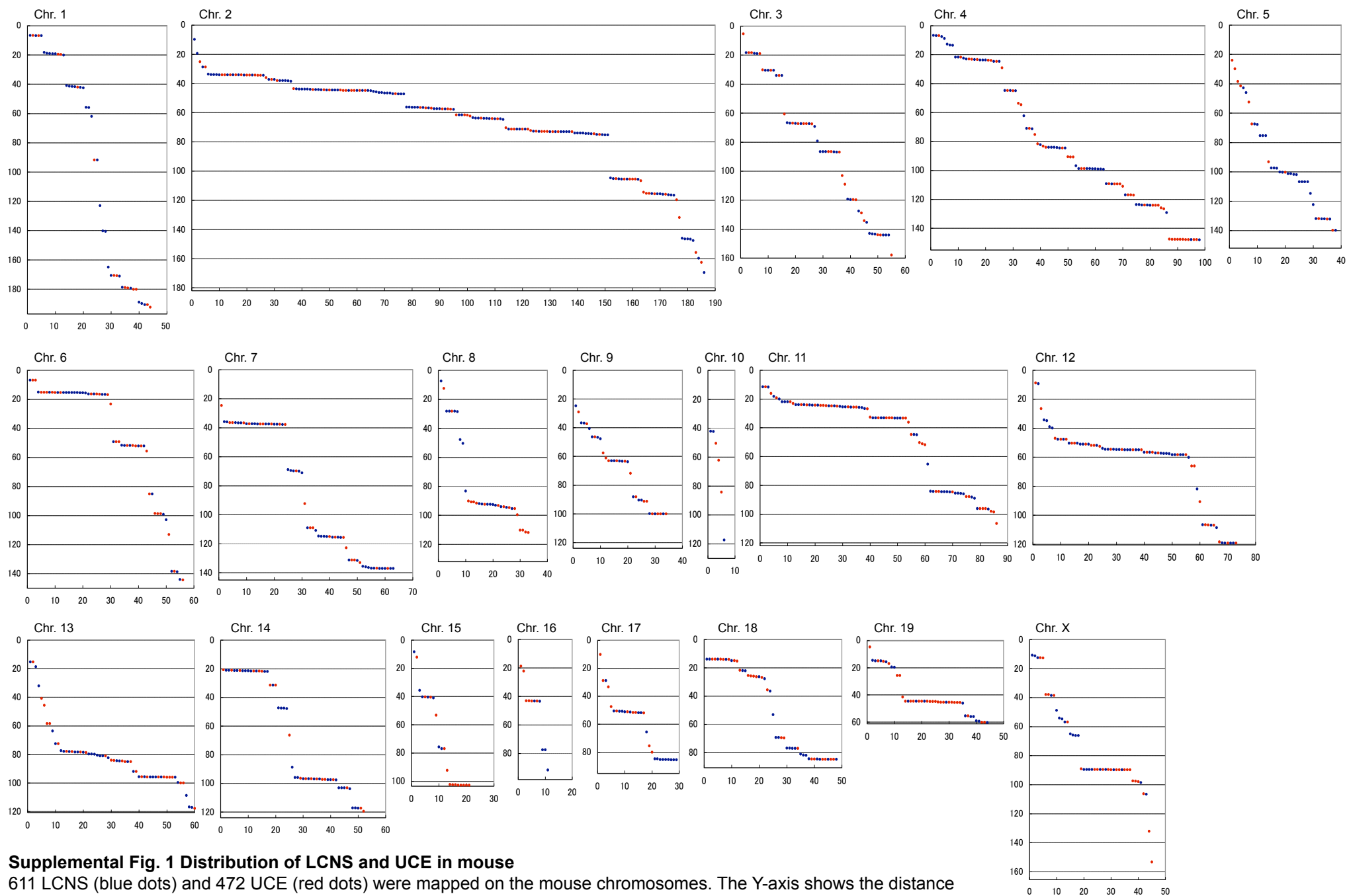




**Supplemental Fig. 1 Distribution of LCNS and UCE in mouse**

611 LCNS (blue dots) and 472 UCE (red dots) were mapped on the mouse chromosomes. The Y-axis shows the distance from the centromere terminal along the chromosome in Mb. The X-axis indicates the number of LCNS and UCE accumulating along each chromosome.

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**Supplemental Table 2. Homologous LCNS among 611 LCNS**

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| Homologous LCNS |         |      |         | Homologous<br>Length (bp) | Identity (%) |
|-----------------|---------|------|---------|---------------------------|--------------|
| I.D.            |         | I.D. |         |                           |              |
| 242             | (504)   | 352  | (718)   | 133                       | 85.0         |
| 259             | (744)   | 580  | (767)   | 294                       | 92.2         |
| 269             | (596)   | 610  | (835)   | 84                        | 90.5         |
| 289             | (541)   | 340  | (788)   | 104                       | 88.5         |
| 501             | (580)   | 503  | (686)   | 63                        | 98.4         |
| 522             | (1,023) | 654  | (1,061) | 1019                      | 98.5         |

Parentheses indicate the size of the LCNS

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**Supplemental Table 3. List of primers used in this study**

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LCNS I.D. sequence

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|     |                            |
|-----|----------------------------|
| 49  | CTCCTACTGATTGAGCATGGTG     |
| 49  | TGTCAGTAAATTCAAAGACGGAAC   |
| 112 | TCTTTAAACAAATAGCCCATCCA    |
| 112 | TCCTCAGGCATTATTTACAAGC     |
| 124 | TCCACTGGACTCCCAGTCTT       |
| 124 | ACGCACCGTTTATCTTGCTT       |
| 152 | TGAAAAGTAATACAGTGAGTGCGAGT |
| 152 | CCAGGAAAACCTGCCAGTAGG      |
| 161 | CAGCAAGCACCTGCAGTAATA      |
| 161 | TGGGTAGCATTTTGTCAGAGG      |
| 242 | CCTTTCACCAAACAGATGTA ACTA  |
| 242 | TTTCATATTAGTTTCCCGAGTTCA   |
| 276 | CAAACTGTTGGCAGCTTGTT       |
| 276 | CCTGTACTAGGAGCAGCCTGT      |
| 348 | CATGCCTGAAAAGTGAATTTGA     |
| 348 | TCCTGTTTTGTTAGATGGCAGA     |
| 354 | AACGGGATGGTCCCTTATTC       |
| 354 | TCACTTCCCATCACCTCTC        |
| 395 | CCCATTCTCTGGGTTCTGAG       |
| 395 | ACACGGTTGTCTGTGTGGAA       |
| 403 | CCAGGGTAATTGTTTCGTTTTG     |
| 403 | AGTAGCTCTGGGGGCAACTC       |
| 418 | AGCCGAAATGTTTTGAAGGA       |
| 418 | GCAAGTTCACCTCTGGCATCA      |
| 418 | CTGTAGATGCCTGCGTGAAG       |
| 418 | GGAAAAGCTGCTCGACTTGA       |

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