S2 Table: Distribution of sex-specific common markers over chromosomes, for single cell-dependent makers only. A sex-specific marker was declared if the posterior probability of a methylation difference $\geq 0.10$ was greater than 0.95 for at least one cell type.

| CHR  | CD14$^+$ Mono | CD19$^+$ B  | CD4$^+$ T  | CD16$^+$ Neu | CD56$^+$ NK |
|------|---------------|--------------|-------------|--------------|-------------|
| chr1 | 0             | 0            | 0           | 3            | 18          |
| chr10| 0             | 1            | 0           | 3            | 10          |
| chr11| 1             | 0            | 0           | 7            | 11          |
| chr12| 0             | 0            | 0           | 4            | 10          |
| chr13| 0             | 0            | 0           | 1            | 6           |
| chr14| 0             | 1            | 0           | 4            | 4           |
| chr15| 0             | 1            | 0           | 2            | 6           |
| chr16| 0             | 0            | 0           | 3            | 10          |
| chr17| 0             | 0            | 0           | 4            | 8           |
| chr18| 0             | 1            | 0           | 0            | 3           |
| chr19| 0             | 0            | 0           | 1            | 10          |
| chr2 | 0             | 0            | 0           | 6            | 11          |
| chr20| 0             | 0            | 0           | 0            | 2           |
| chr21| 0             | 1            | 1           | 0            | 2           |
| chr22| 0             | 0            | 0           | 1            | 2           |
| chr3 | 1             | 1            | 0           | 1            | 7           |
| chr4 | 1             | 0            | 0           | 1            | 10          |
| chr5 | 0             | 1            | 0           | 3            | 13          |
| chr6 | 0             | 2            | 0           | 4            | 10          |
| chr7 | 0             | 1            | 0           | 4            | 20          |
| chr8 | 1             | 0            | 0           | 4            | 16          |
| chr9 | 0             | 0            | 0           | 3            | 3           |
| chrX | 1             | 5            | 4           | 2            | 0           |
| Unique Genes | 5 | 11 | 1 | 47 | 133 |