

Supplementary Table S1. Authentication of human cancer cell lines by short tandem repeat (STR) analysis\*

| Locus   | LOX <sup>†</sup> | LNCaP <sup>§</sup> | MCF-7 <sup>‡</sup> | MDA-mb-231 <sup>‡</sup> | MDA-mb-435 <sup>‡</sup> | PC-3 <sup>‡</sup> | SY5Y <sup>†</sup> |
|---------|------------------|--------------------|--------------------|-------------------------|-------------------------|-------------------|-------------------|
| AMEL    | X                | X, Y               | X                  | X                       | X                       | X                 | X                 |
| CSF1PO  | 10, 12           | 10, 11             | 10                 | 12, 13                  | 11                      | 11                | 10, 12            |
| D13S317 | 11               | 10, 12             | 11                 | 13, 14 (+1)             | 12                      | 11                | 11                |
| D16S539 | 10, 12           | 11                 | 11, 12             | 12                      | 13                      | 11                | 11, 12            |
| D18S51  | 15, 18           | 11, 12             | 14                 | 11                      | 13, 17                  | 14, 15            | 14, 17            |
| D19S433 | 14.2             | 13.2, 15           | 13, 14             | 11                      | 14                      | 14                | 13                |
| D21S11  | 28, 31           | 29, 32.2           | 30                 | 33.2                    | 30                      | 29, 31.2          | 29                |
| D2S1338 | 18, 24           | 16                 | 21, 23             | 20, 21                  | 19, 24                  | 18, 20            | 24                |
| D3S1358 | 14, 15           | 16                 | 16                 | 16                      | 14                      | 16                | 16                |
| D5S818  | 11, 13           | 11, 12             | 11, 12             | 12                      | 11 (-1), 12             | 13                | 11                |
| D7S820  | 9, 11            | n.d.               | 8, 9               | 8, 9                    | 8, 10                   | 8, 11             | 8, 11             |
| D8S1179 | 11, 13           | 12, 14             | 10, 14             | 13                      | 13                      | 13                | 13, 14            |
| FGA     | 22               | 19, 20             | 23, 25             | 22, 23                  | 21                      | 24                | 23                |
| TH01    | 7, 9.3           | 9                  | 6                  | 7, 9.3                  | 6, 7                    | 6, 7              | 8, 9.3            |
| TPOX    | 9, 11            | 8, 9               | 9, 12              | 8, 9                    | 8, 11                   | 8, 9              | 8, 11             |
| vWA     | 14, 17           | 16, 18             | 14, 15             | 15, 18                  | 16, 18                  | 17                | 14                |

\*STR analysis was performed by Fragment Analysis Facility, Johns Hopkins University.

<sup>†</sup> No published data for STR profile.

<sup>§</sup> Masters JR, et al. Short tandem repeat profiling provides an international reference standard for human cell lines. Proc Natl Acad Sci U S A, 2001; 98:8012-7.

<sup>‡</sup> ATCC STR Database for Human Cell Lines

<http://www.atcc.org/CulturesandProducts/CellBiology/STRProfileDatabase/tabid/174/Default.aspx>

Changes in STR profiles that may reflect genome instability are shown in red. The numbers in parentheses indicate deviations from the values reported in the ATCC STR Database.