**Supplementary File 1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **MSS control cell line** | **Normal retinal pigment epithelial cells** |  |  |  |
| **Marker** | Size range (bp) | K562 (bp) | hTERT RPE-1 (bp) |  |  |  |
| **NR-21** | 94-101 | 100.6 | 100.7 |  |  |  |
| **BAT-26** | 103-115 | 113.4 | 114.4 |  |  |  |
| **BAT-25** | 114-124 | 121.5 | 121.6 |  |  |  |
| **NR-24** | 130-133 | 130.1 | 130.0 |  |  |  |
| **MONO-27** | 142-154 | 149.9 | 149.0 |  |  |  |
|  |  |  |  |  |  |  |
|  | **CRC cell lines** | | | |  |  |
| **Marker** | SK-CO-1  (bp) | SW480  (bp) | CaCo-2 (bp) | HCT 116  (bp) | RKO  (bp) | SNU-C4 (bp) |
| **NR-21** | 100.6 | 99.6 | 99.7 | 92.3 | 87.0 | 90.3 |
| **BAT-26** | 114.4 | 113.4 | 113.5 | 101.9 | 102.7 | 101.8 |
| **BAT-25** | 121.5 | 120.5 | 121.8 | 115.2 | 112.1 | 114.2 |
| **NR-24** | 130.1 | 130.1 | 131.1 | 120.9 | 124.0 | 120.8 |
| **MONO-27** | 148.9 | 149.9 | 149.1 | 140.7 | 137.6 | 138.7 |
|  |  |  |  |  |  |  |
|  | **Endometrial carcinoma cell lines** | | | |  |  |
| **Marker** | MFE-280  (bp) | HEC-265  (bp) | ISHIKAWA  (bp) | HEC-6 (bp) |  |  |
| **NR-21** | 99.6 | 91.3 | 88.1 | 89.1 |  |  |
| **BAT-26** | 113.4 | 102.0 | 100.9 | 100.8 |  |  |
| **BAT-25** | 122.6 | 117.4 | 113.1 | 112.0 |  |  |
| **NR-24** | 131.1 | 123.9 | 123.0 | 123.0 |  |  |
| **MONO-27** | 148.9 | 143.8 | 140.7 | 141.7 |  |  |
|  |  |  |  |  |  |  |
|  | **Gastric carcinoma cell lines** | | | |  |  |
| **Marker** | AGS (bp) | OCUM-1 (bp) | 23132.87 (bp) | IM95 (bp) |  |  |
| **NR-21** | 98.6 | 99.6 | 89.2 | 94.4 |  |  |
| **BAT-26** | 113.4 | 113.4 | 101.9 | 101.9 |  |  |
| **BAT-25** | 121.5 | 121.6 | 114.2 | 114.2 |  |  |
| **NR-24** | 131.2 | 131.1 | 123.0 | 119.8 |  |  |
| **MONO-27** | 149.9 | 150.0 | 143.7 | 140.7 |  |  |