**Supplementary File 2**

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| **Probes** | **Vendor** | **Cat No.** |
| *Kdm6a* | Advanced Cell Diagnostics | 456961 |
| *Kdm6b* | Advanced Cell Diagnostics | 477971 |
| *Kdm6b-01* | Advanced Cell Diagnostics | 501231 |
| *Uty* | Advanced Cell Diagnostics | 451741 |
| *Trp53* | Advanced Cell Diagnostics | 402331 |
| *Trp53-C2* | Advanced Cell Diagnostics | 402331-C2 |
| *Ezh1* | Advanced Cell Diagnostics | 895231 |
| *Wrap53* | Advanced Cell Diagnostics | 1143201-C1 |