

Supplemental Table 2. Increased measurement precision for sequence-verified probes in technical replicates.

| CHIP TREATMENT | | <u>SPEARMAN</u> | | | <u>PEARSON</u> | | | <u># PROBE SETS TESTED</u> | |
|-----------------------|---|------------------------|--------------------------|-----------------------|------------------------|--------------------------|-----------------------|-----------------------------------|--------------------------|
| | | <u>VERIFIED</u> | <u>UNVERIFIED</u> | <u>P-VALUE</u> | <u>VERIFIED</u> | <u>UNVERIFIED</u> | <u>P-VALUE</u> | <u>VERIFIED</u> | <u>UNVERIFIED</u> |
| U95A | 1 | 0.896-0.935 | 0.825-0.886 | < 0.00001 | 0.949-0.991 | 0.935-0.987 | < 0.00001 | 9559 | 3068 |
| | 2 | 0.838-0.903 | 0.756-0.835 | < 0.00001 | 0.965-0.986 | 0.912-0.985 | < 0.05 | 9559 | 3068 |
| | 3 | 0.849-0.918 | 0.825-0.886 | < 0.00001 | 0.961-0.987 | 0.883-0.971 | < 0.05 | 9559 | 3068 |
| U95B | 1 | 0.905-0.932 | 0.757-0.817 | < 0.00001 | 0.939-0.993 | 0.941-0.986 | < 0.05 | 4019 | 8603 |
| | 2 | 0.850-0.884 | 0.689-0.732 | < 0.00001 | 0.943-0.994 | 0.901-0.981 | < 0.001 | 4019 | 8603 |
| | 3 | 0.885-0.910 | 0.730-0.768 | < 0.00001 | 0.964-0.994 | 0.852-0.980 | < 0.05 | 4019 | 8603 |
| U95C | 1 | 0.867-0.912 | 0.705-0.781 | < 0.00001 | 0.956-0.992 | 0.939-0.978 | < 0.00001 | 3057 | 9591 |
| | 2 | 0.852-0.879 | 0.687-0.727 | < 0.00001 | 0.970-0.994 | 0.920-0.976 | < 0.05 | 3057 | 9591 |
| | 3 | 0.835-0.888 | 0.661-0.728 | < 0.00001 | 0.944-0.986 | 0.874-0.963 | < 0.05 | 3057 | 9591 |
| U95D | 1 | 0.823-0.854 | 0.727-0.764 | < 0.00001 | 0.964-0.993 | 0.935-0.976 | < 0.00001 | 1616 | 11030 |
| | 2 | 0.799-0.819 | 0.687-0.714 | < 0.00001 | 0.968-0.993 | 0.934-0.980 | < 0.05 | 1616 | 11030 |
| | 3 | 0.787-0.818 | 0.677-0.715 | < 0.00001 | 0.947-0.991 | 0.890-0.979 | < 0.001 | 1616 | 11030 |
| U95E | 1 | 0.789-0.820 | 0.710-0.755 | < 0.00001 | 0.952-0.992 | 0.932-0.971 | < 0.00001 | 2967 | 9674 |
| | 2 | 0.770-0.831 | 0.699-0.743 | < 0.00001 | 0.940-0.990 | 0.924-0.976 | < 0.05 | 2967 | 9674 |
| | 3 | 0.789-0.866 | 0.714-0.769 | < 0.00001 | 0.955-0.992 | 0.854-0.980 | < 0.05 | 2967 | 9674 |