**Additional File 1. Table of Inter-assay coefficient of variation for negative**

**and positive controls for 32 TAA on the Luminex bead platform.**

|  |  |  |
| --- | --- | --- |
| **Autoantibody** | **Negative Control****(Background)** | **Positive Control (Standard)** |
| **Original 20** |
| ANGPTL4 | 9.2 | 12.3 |
| CD147 | 5.7 | 10.7 |
| CD320 | 21.8 | 12.9 |
| CDH3 | 7.5 | 12.3 |
| CST2 | 13.4 | 12.2 |
| DKK1 | 6.6 | 9.7 |
| ERBB2 | 9.3 | 12.2 |
| EPHA2 | 5.2 | 12.6 |
| GFRA1 | 9.6 | 11.5 |
| GRN | 11.7 | 15.4 |
| IGFBP2 | 14.7 | 9.7 |
| LAMC2 | 7.7 | 11.1 |
| LGALS1 | 14.7 | 11.7 |
| LRP10 | 5.5 | 10.3 |
| LRRC15 | 5.7 | 16.1 |
| MUC1 | 8.3 | 10.1 |
| SPINT2 | 12.9 | 9.2 |
| SPON2 | 14.3 | 10.5 |
| SSR2 | 18.2 | 11.2 |
| SUSD2 | 7.0 | 12.3 |
| **Additional 12** |
| A1AT | 12.2 | 12.8 |
| AMACR | 11.3 | 11.2 |
| BIRC5 | 12.8 | 11.3 |
| CALD1 | 11.8 | 9.9 |
| CAPC | 10.2 | 10.4 |
| CCNB1 | 12.8 | 9.2 |
| CCND1 | 10.9 | 10.3 |
| GRP78 | 11.9 | 11.7 |
| LGALS3 | 13.1 | 13.9 |
| MYC | 12.5 | 9.5 |
| NY-ESO-1 | 15.9 | 11.2 |
| XAGE1 | 11.3 | 10.9 |
| **Average** | 11.1 | 11.4 |