### Archer FusionPlex Lung Panel (Archer DX) v5.0.4

|                | SJ-GBM2: CLIP2-MET  | KM-12: TPM3-NTRK1 | RT4: FGFR3-TACC3 | HCC-78: SLC34A2-ROS1 | SW780: FGFR3-BAIAP2L1 | KG-1: FGFR1OP2-FGFR1 | Dilution |
|----------------|---------------------|-------------------|------------------|----------------------|------------------------|----------------------|----------|
|                |                     |                   |                  |                      |                        |                      |          |
| **True Positives** |                    |                   |                  |                      |                        |                      |          |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 10:90    |
|                | 1                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
|                | 2                   | 2                 | 2                | 2                    | 2                      | 2                    | 80:20    |
| **Fusion-supporting reads** |                    |                   |                  |                      |                        |                      |          |
| CLIP2-MET: 328 |                     | TPM3-NTRK1: 3792  | FGFR3-TACC3: 7905 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| FGFR3-TACC3: 3006 |                   | TPM3-NTRK1: 599  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| CLIP2-MET: -   |                     | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| FGFR3-TACC3: 5164 |                 | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| CLIP2-MET: 194 |                     | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| FGFR3-TACC3: 10635 |                 | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| CLIP2-MET: 716 |                     | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| FGFR3-TACC3: 656 |                 | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| CLIP2-MET: 514 |                     | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| FGFR3-TACC3: 933 |                 | TPM3-NTRK1: 348  | FGFR3-TACC3: 2292 | FGFR3-TACC3: 2292    | FGFR3-BAIAP2L1: 4673   | FGFR3-BAIAP2L1: 50:50 |          |
| **False Positives** |                    |                   |                  |                      |                        |                      |          |
|                | 12                  | 7                 | 16               | 10                   | 10                     | 10                   | 50:50    |
|                | 12                  | 4                 | 16               | 9                    | 9                      | 9                    | 50:50    |
|                | 13                  | 2                 | 16               | 6                    | 6                      | 6                    | 50:50    |
|                | 3                   | 11                | 19               | 9                    | 9                      | 9                    | 50:50    |
|                | 6                   | 13                | 20               | 7                    | 7                      | 7                    | 50:50    |
| **Missed Fusions** |                    |                   |                  |                      |                        |                      |          |
|                | 0                   | 0                 | 0                | 0                    | 0                      | 0                    | 50:50    |
|                | 1                   | 0                 | 0                | 0                    | 0                      | 0                    | 50:50    |
|                | 0                   | 0                 | 0                | 0                    | 0                      | 0                    | 50:50    |
|                | 0                   | 0                 | 0                | 0                    | 0                      | 0                    | 50:50    |
|                | 0                   | 0                 | 0                | 0                    | 0                      | 0                    | 50:50    |