**Supplemental Digital Content 2.**

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| **Sample** | **Tissue** | **NGS Fusion Call** | **Sanger Results** |
| **VALNGSF-001** | Lung | EML4:ALK | EML4:ALK |
| **VALNGSF-002** | Lung | NA | NA |
| **VALNGSF-003** | Colon | TPR:NTRK1 | TPR:NTRK1 |
| **VALNGSF-004** | Colon | NA | NA |
| **VALNGSF-005** | Thyroid | ETV6:NTRK3 | ETV6:NTRK3 |
| **VALNGSF-006** | Breast | NA | NA |
| **VALNGSF-007** | Lung | NA | NA |
| **VALNGSF-008** | Lung | NA | NA |
| **VALNGSF-009** | Lung | NA | NA |
| **VALNGSF-010** | Lung | NA | NA |
| **VALNGSF-011** | Lung | NA | NA |
| **VALNGSF-012** | Colon | NA | NA |
| **VALNGSF-013** | Colon | NA | NA |
| **VALNGSF-014** | Colon | NA | NA |
| **VALNGSF-015** | Cell Line | GOPC:ROS1 | GOPC:ROS1 |
| **VALNGSF-016** | Thyroid | NA | NA |
| **VALNGSF-017** | Kidney | NA | NA |
| **VALNGSF-018** | Lung | NA | NA |
| **VALNGSF-019** | Lung | NA | NA |
| **VALNGSF-020** | Colon | NA | NA |
| **VALNGSF-021** | Colon | NA | NA |
| **VALNGSF-022** | Lung | NA | NA |
| **VALNGSF-023** | Lung | NA | NA |
| **VALNGSF-024** | Cell Line | GOPC:ROS1 | GOPC:ROS1 |
| **VALNGSF-025** | Lung | NA | NA |
| **VALNGSF-026** | Colon | NA | NA |
| **VALNGSF-027** | Colon | NA | NA |
| **VALNGSF-028** | Colon | NA | NA |
| **VALNGSF-029** | Thyroid | NA | NA |
| **VALNGSF-030** | Thyroid | NA | NA |
| **VALNGSF-031** | Lung | NA | NA |
| **VALNGSF-032** | Lung | NA | NA |
| **VALNGSF-033** | Cell Line | NPM1:ALK | NPM1:ALK |
| **VALNGSF-034** | Colon | NA | NA |
| **VALNGSF-035** | Colon | NA | NA |
| **VALNGSF-036** | Colon | NA | NA |
| **VALNGSF-037** | Kidney | NA | NA |
| **VALNGSF-038** | ALCL | NA | NA |
| **VALNGSF-039** | Lung | NA | NA |
| **VALNGSF-040** | Lung | NA | NA |
| **VALNGSF-041** | Colon | NA | NA |
| **VALNGSF-042** | Colon | NA | NA |
| **VALNGSF-043** | Colon | NA | NA |
| **VALNGSF-044** | Brain | NA | NA |
| **VALNGSF-045** | Brain | NA | NA |
| **VALNGSF-046** | Cell Line | SLC34A2:ROS1 | SLC34A2:ROS1 |
| **VALNGSF-047** | Breast | NA | NA |
| **VALNGSF-048** | Breast | NA | NA |
| **VALNGSF-049** | Ovary | NA | NA |
| **VALNGSF-050** | Ovary | NA | NA |
| **VALNGSF-051** | Skin | NA | NA |
| **VALNGSF-052** | Prostate | NA | NA |
| **VALNGSF-053** | Cell Line | TPM3:NTRK1 | TPM3:NTRK1 |
| **VALNGSF-054** | Prostate | NA | NA |
| **VALNGSF-055** | Lung | EML4:ALK | EML4:ALK |
| **VALNGSF-056** | Lung | NA | NA |
| **VALNGSF-057** | Lung | NA | NA |
| **VALNGSF-058** | Lung | EML4:ALK | EML4:ALK |
| **VALNGSF-059** | Lung | EML4:ALK | EML4:ALK |
| **VALNGSF-060** | Thyroid | ETV6:NTRK3 | ETV6:NTRK3 |
| **VALNGSF-061** | Lung | NA | NA |
| **VALNGSF-062** | Cell Line | ETV6:NTRK3 | ETV6:NTRK3 |
| **VALNGSF-063** | Colon | NA | NA |
| **VALNGSF-064** | Lung | NA | NA |
| **VALNGSF-065** | Cell Line | ETV6:NTRK2 | ETV6:NTRK2 |
| **VALNGSF-066** | Colon | TPM3:NTRK1 | TPM3:NTRK1 |