

Sarcoma Fusion Transcript Panel

| Tumour Type | Fusion / Transcript | Exon 1 | Exon 2 | Gene ID |
|--------------------------------------|-------------------------------------|--------|--------|----------------------------|
| Alveolar rhabdomyosarcoma | PAX7-FOXO1 | 7 | 2 | NM_002584.1- NM_002015.2 |
| | PAX3-FOXO1 | 7 | 2 | NM_181459.1-NM_002015.2 |
| Ewing sarcoma | EWSR1-FEV | 7 | 2 | NM_005243.1- NM_017521.1 |
| | EWSR1-FLI1 | 7 | 6 | NM_005243.1-NM_002017.2 |
| | | 7 | 5 | NM_005243.1-NM_002017.2 |
| | | 10 | 5 | NM_005243.1-NM_002017.2 |
| | | 7 | 8 | NM_005243.1-NM_002017.2 |
| | EWSR1-ETV4 | 7 | 9 | NM_005243.1-NM_001986.1 |
| | EWSR1-ERG | 7 | 8 | NM_005243.1-NM_004449.3 |
| | | 7 | 11 | NM_005243.1-NM_004449.3 |
| | | 10 | 8 | NM_005243.1-NM_004449.3 |
| | | 7 | 9 | NM_005243.1-NM_004449.3 |
| | | 7 | 10 | NM_005243.1-NM_004449.3 |
| BCOR-CCNB3 (Ewing-like)Sarcoma | BCOR-CCNB3 | 15 | 5 | NM_001123383 -NM_033031 |
| Primitive round cell sarcoma | CIC-DUX4 (three different variants) | 20 | 1 | NM_015125.3-NM_033178.4 |
| Synovial Sarcoma | SS18-SSX1 | 10 | 6 | NM_001007559.1-NM_005635.2 |
| | SS18-SSX2 | 10 | 6 | NM_001007559.1-NM_003147.4 |
| Angiomatoid fibrous histiocytoma | EWSR1-CREB1 | 7 | 7 | NM_005243.3-NM_134442.3 |
| | FUS-ATF1 | 5 | 5 | NM_004960.3-NM_005171.4 |
| | EWSR1-ATF1 | 7 | 5 | NM_005243.3-NM_005171.4 |
| | | 8 | 4 | NM_005243.3-NM_005171.4 |
| Infantile/congenital fibrosarcoma | ETV6-NTRK3 | 5 | 15 | NM_001987.4-NM_002530.3 |
| Desmoplastic small round cell tumour | EWSR1-WT1 | 7 | 8 | NM_005243.3-NM_024426.4 |
| | | 9 | 8 | NM_005243.3-NM_024426.4 |
| Inflammatory myofibroblastic tumour | TPM3-ALK | 7 | 20 | NM_153649.3-NM_004304.4 |
| | TPM4-ALK | 7 | 20 | NM_003290.2-NM_004304.4 |
| | RANBP2-ALK | 18 | 20 | NM_006267.4-NM_004304.4 |

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| Lipoblastoma | COL1A2-PLAG1 | 1 | 3 | NM_000089.3-NM_002655.2 |
| | HAS2-PLAG1 | 1 | 3 | NM_005328.2-NM_002655.2 |
| Nodular fasciitis | MYH9-USP6 | 1 | 1(partial) | NM_002473.4-NM_004505.2 |
| | | 1 | 2 | NM_002473.4-NM_004505.2 |
| Housekeeping genes | FOXO1 | | | NM_002015.3 |
| | G6PD | | | NM_000402.2 |
| | GUSB | | | NM_000181.3 |
| | PPIA | | | NM_021130.2 |