**SUPPLEMENTARY Table|** Detailed information of the NTRK fusion types examined by the RT-PCR kit.

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| **Tube** | **Detected Target** | **Fusion Type** | **Tube** | **Detected Target** | **Fusion Type** |
|  | **NTRK1 Fusion** | TP53 exon8;ins6 NTRK1 exon8 | ③ | **NTRK1 Fusion** | TPR exon6;NTRK1 exon12 |
| TP53 exon9;ins6 NTRK1 exon8 | GRIPAP1 exon22;NTRK1 exon12 |
| TP53 exon10;ins6 NTRK1 exon8 | SCYL3 exon11;NTRK1 exon12 |
| TP53 exon11;ins6 NTRK1 exon8 | MEF2D exon9;NTRK1 exon12 |
| CTRC exon2;NTRK1 exon8 | AMOTL2 exon6;NTRK1 exon12 |
| IRF2BP2 exon1;NTRK1 exon8 | PRDX1 exon5;NTRK1 exon12 |
| LRRC71 exon1;NTRK1 exon8 | ④ | **NTRK1 Fusion** | MPRIP exon21;NTRK1 exon14 |
| LMNA exon2;NTRK1 exon11 | LMNA exon2;NTRK1 exon16 |
| LMNA exon3;NTRK1 exon11 | ⑤ | **NTRK2 Fusion** | VCL exon16;NTRK2 exon12 |
| LMNA exon5;NTRK1 exon11 | AFAP1 exon13;NTRK2 exon12 |
| LMNA exon10;NTRK1 exon11 | VCAN exon6; NTRK2 exon12 |
| LMNA exon11 del150;NTRK1 exon11 | NCAA2 exon5;NTRK2 exon13 |
| PPL exon21;NTRK1 exon11 | NOS1AP exon9; NTRK2 exon13 |
| GRIPAP1 exon22;NTRK1 exon11 | TBC1D2 exon6; NTRK2 exon14 |
| BCAN exon13;NTRK1 exon11 | ⑥ | **NTRK2 Fusion** | TRIM24 exon12;NTRK2 exon15 |
| ② | **NTRK1 Fusion** | TFG exon5;NTRK1 exon9 | TRAF2 exon9;NTRK2 exon15 |
| TPR exon21;NTRK1 exon9 | SQSTM1 exon4;NTRK2 exon15 |
| TFG exon4;NTRK1 exon9 | ETV6 exon5;NTRK2 exon15 |
| TPM3 exon10;NTRK1 exon9 | TLE4 exon7;NTRK2 exon15 |
| AFAP1 exon4;NTRK1 exon9 | TRIM24 exon12;NTRK2 exon16 |
| TRIM63 exon8;NTRK1 exon9 | AGBL4 exon6;NTRK2 exon16 |
| TPM3 exon8;NTRK1 exon10 | SQSTM1 exon5;NTRK2 exon16 |
| SQSTM1 exon2;NTRK1 exon10 | STRN3 exon7;NTRK2 exon16 |
| SQSTM1 exon5;NTRK1 exon10 | WNK2 exon24;NTRK2 exon16 |
| TPR exon10;NTRK1 exon10 | QKI exon6;NTRK2 exon16 |
| TPR exon16 del54;NTRK1 ins13 exon10 | STRN exon3;NTRK2 exon16 |
| TPR exon21;NTRK1 exon10 | GKAP1 exon9; NTRK2 exon16 |
| CD74 exon8;NTRK1 exon10 | KCTD8 exon1;NTRK2 exon16 |
| IRF2BP2 exon1;NTRK1 exon10 | PRKAR2A exon2;NTRK2 exon16 |
| IRF2BP2 exon1 del48;NTRK1 exon10 | PAN3 exon1;NTRK2 exon17 |
| PPL exon21;NTRK1 exon10 | SQSTM1 exon5;NTRK2 exon17 |
| PEAR1 exon15;NTRK1 exon10 | BCR exon1;NTRK2 exon17 |
| TFG exon5;NTRK1 exon10 | ⑦ | **NTRK3 Fusion** | ETV6 exon4;NTRK3 exon14 |
| GRIPAP1 exon22;NTRK1 exon10 | ETV6 exon5;NTRK3 exon14 |
| TFG exon6;NTRK1 exon10 | EML4 exon2;NTRK3 exon14 |
| F11R exon4;NTRK1 exon10 | SQSTM1 exon5;NTRK3 exon14 |
| F11 exon4;NTRK1 exon10 | TFG exon6;NTRK3 exon14 |
| SQSTM1 exon6;NTRK1 exon10 | MYH9 exon31;NTRK3 exon14 |
| ARHGEF2 exon21;NTRK1 exon10 | RBPMS exon5;NTRK3 exon14 |
| CHTOP exon5;NTRK1 exon10 | BTBD1 exon4; NTRK3 exon14 |
| NFASC exon21;NTRK1 exon10 | SPECC1L exon5;NTRK3 exon14 |
| TPM3 exon7 del39;NTRK1 exon10 | VIM exon8;NTRK3 exon14 |
| BCAN exon12;NTRK1 exon10 | STRN exon3;NTRK3 exon14 |
| PPL exon11;NTRK1 exon13 | STRN3 exon3;NTRK3 exon14 |
| ③ | **NTRK1 Fusion** | TPM3 exon8;NTRK1 exon12 | HNRNPA2B1 exon7;NTRK3 exon14 |
| LMNA exon6 del172;NTRK1 exon12 | AKAP13 exon3;NTRK3 exon14 |
| MPRIP exon21;NTRK1 exon12 | ETV6 exon5;NTRK3 exon15 |
| SSBP2 exon12;NTRK1 exon12 | ETV6 exon4;NTRK3 exon15 |
| LMNA exon2;NTRK1 exon12 | SQSTM1 exon6;NTRK3 exon15 |
| LMNA exon4;NTRK1 exon12 | ETV6 exon6;NTRK3 exon15 |
| LMNA exon8;NTRK1 exon12 | ⑧ | **NTRK3 Fusion** | ETV6 exon4;NTRK3 exon12 |
| LMNA exon10;NTRK1 exon12 | ETV6 exon5;NTRK3 exon13 |
| LMNA exon12;NTRK1 exon12 | ETV6 exon4;NTRK3 exon13 |
| MPRIP exon14;NTRK1 exon12 | ETV6 exon5;NTRK3 exon16 |
| MPRIP exon18;NTRK1 exon12 |  |  |  |

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