



Certificate of Analysis

Material Name:	RNA Fusion Panel 1, 2, 3, 4, 5, and 8
Part Number:	RF162-001, RF162-002, RF162-003, RF162-004, RF162-005, and RF162-008, respectively
Unit Quantity:	25 ul/ vial
Lot Number:	301051, 301052, 301053, 301054, 301055, and 301068, respectively
Composition and Usage:	The products contain purified cellular RNA and a mixture of recombinant RNA fusions in each panel listed below. The products can be used directly in most PCR or NGS applications. In rare conditions, heating at 70°C for 2 minutes may improve the assay by relaxing RNA secondary structure.
Storage:	Store at ≤ -70 °C.
Date of Manufacturing:	7/9/2025
Expiration Date:	7/31/2027

Test Result:

Part Number	Lot Number	Titer (copy/ul)	Passing Criteria (copy/ul)	Total RNA (ng/ul)	Passing Criteria (ng/ul)	Pass/Fail
RF162-001	301051	2800	>500	27.1	>20	Pass
RF162-002	301052	4300	>500			Pass
RF162-003	301053	1360	>500			Pass
RF162-004	301054	8480	>500			Pass
RF162-005	301055	2140	>500			Pass
RF162-008	301068	4570	>500			Pass

Test method for RNA copies: rt-qPCR of specific targets in each fusion construct.

Test method for total RNA: Denovix RNA Assay.

Approval

Name: Yabin Lu

Signature:

DocuSigned by:

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Date: 7/11/2025

The material is for research use only.



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List of Fusions

ID	5' Gene Breakpoint (GRCh37/Hg19)	3' Gene Breakpoint (GRCh37/Hg19)
Panel1		
EML4-ALK	chr2:42522656	chr2:29446394
ETV6-NTRK3	chr12:12022903	chr15:88483984
CD74-ROS1	chr5:149784243	chr6:117645578
KIF5B-RET	chr10:32311776	chr10:43612032
SS18-SSX1	chr18:23612363	chrX:48123217 (chrX_jh806590_fix:503211)
COL1A1-PDGFB	chr17:48268178	chr22:39631879
LMNA-NTRK1	chr1:156100564	chr1:156844363
Panel2		
TPM3-NTRK1	chr1:154142876	chr1:156844363
FGFR3-TACC3	chr4:1808661	chr4:1739325
SLC34A2-ROS1	chr4:25665952	chr6:117650609
CCDC6-RET	chr10:61665880	chr10:43612032
TMPRSS2-ERG	chr21:42870046	chr21:39817544
PAX8-PPARG	chr2:113984732	chr3:12421203
FGFR2-PPHLN1	chr10:123243212	chr12:42745687
Panel3		
EML4-ALK v2	chr2:42552694	chr2:29446394
FGFR2-AHCYL1	chr10:123243212	chr1:110551656
PPFIBP1-ROS1	chr12:27809663	chr6:117642557
PRKAR1A-RET	chr17:66522053	chr10:43612032
SS18-SSX2	chr18:23612363	chrX:52786931 (chrX_jh806587_fix:2470969)
TMPRSS2-ETV1	chr21:42870046	chr7:14017105
SLC45A3-ERG	chr1:205649522	chr21:39817544
Panel4		
EML4-ALK v3	chr2:42491871	chr2:29446394
FGFR2-BICC	chr10:123243212	chr10:60461834
EZR1-ROS1	chr6:159191796	chr6:117645578
NCOA4-RET	chr10:51582939 (chr10_jh591181_fix:283998)	chr10:43612032
PRCC-TFE3	chr1:156738031	chrX:48895967 (chrX_jh806590_fix:1277871)
MET ex14 Skipping	chr7:116411708	chr7:116414935
EWSR1-FLI1	chr22:29683123	chr11:128651853
Panel5		
NPM1-ALK	chr5:170818803	chr2: 29446394
TFG-NTRK1	chr3:100451516	chr1:156844363
SLC45A3-BRAF	chr1:205649522	chr7:140494267
EWSR1-ATF1	chr22:29684775	chr12:51203239
EGFR-SEPT14	chr7:55268106	chr7:55863785
EGFR Variant III	chr7:55087058	chr7:55223523
QKI-NTRK2	Chr6:163984751	chr9:87482158 (chr10_jh591183_fix:122632)
Panel8		
FGFR3-TACC3v1	chr4:1808661	chr4:1741429
FGFR3-TACC3v3	chr4:1808661	chr4:1739325
FGFR3-BAIAP2L1	chr4:1808661	chr7:97991744
FGFR2-BICC1	chr10:123243212	chr10:60461834
FGFR2-CASP7	chr10:123243212	chr10:115457253