

Supplementary

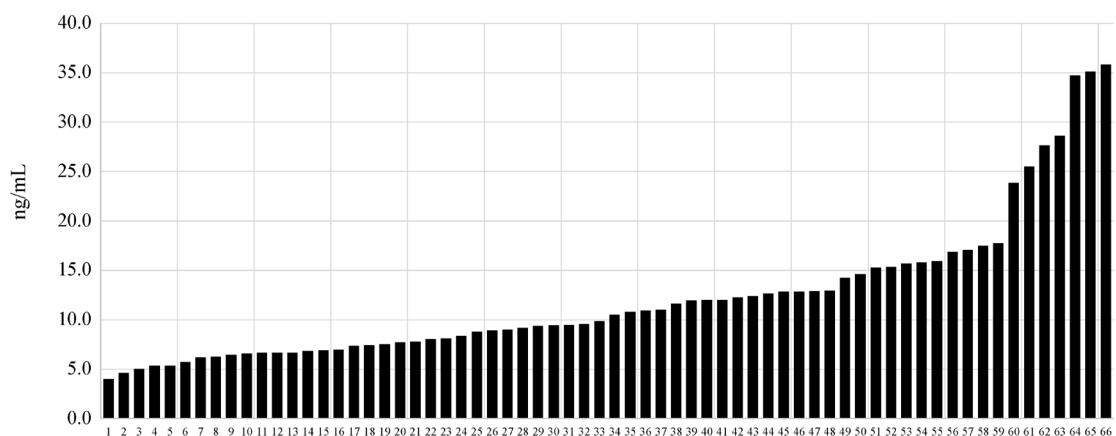


Figure S1 Concentration of cfDNA in plasma samples. cfDNA, cell-free DNA.

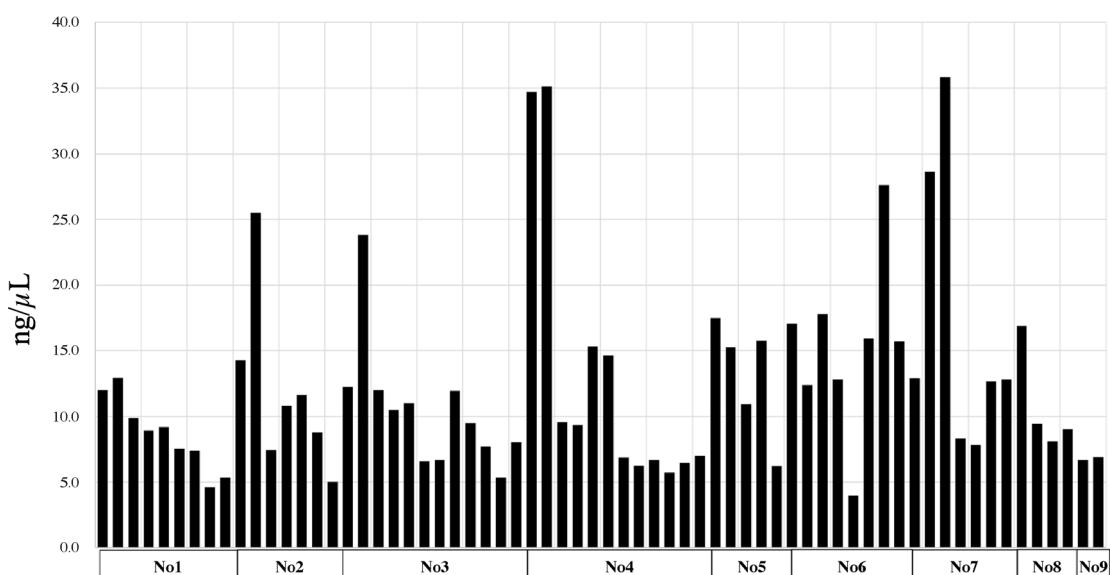


Figure S2 Concentration of cfDNA in plasma samples by patient. cfDNA, cell-free DNA.

Number of mutations and cfDNA concentration

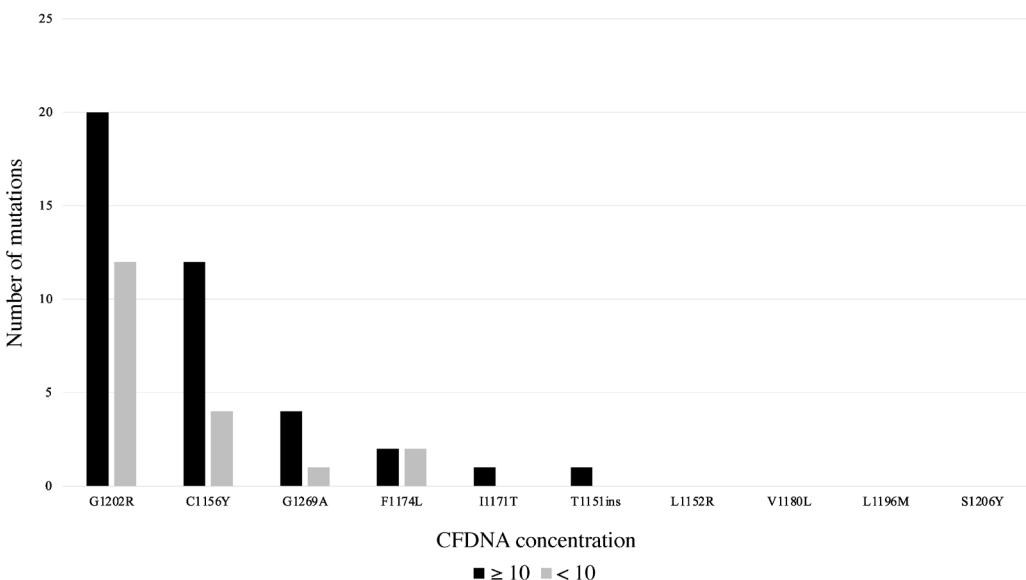


Figure S3 Number of mutations and cfDNA concentration. cfDNA, cell-free DNA.

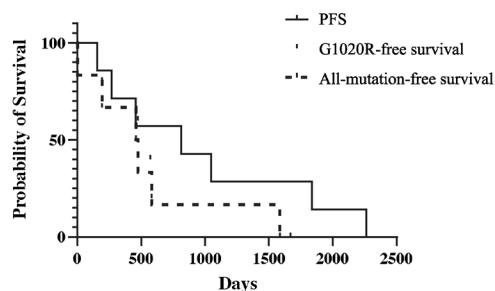


Figure S4 PFS and resistant mutation-free survival. PFS, progression-free survival.

Table S1 Details of the probes used for droplet digital polymerase chain reaction

Probes	Vendor	No.	Lot No.	ALK mutations
LBx® Probe ALK Multi1	Riken Genesis Co., Ltd. Japan	A089	A10005	T1151ins, C1156Y, L1196M, G1269A
LBx® Probe ALK Multi2	Riken Genesis Co., Ltd. Japan	A090	A10003	L1152R, F1174L, V1180L
LBx® Probe ALK Multi3	Riken Genesis Co., Ltd. Japan	A091	A10003	I1171T, G1202R, S1206Y

ALK, anaplastic lymphoma kinase.

Table S2 Composition of the reaction mixture for the ddPCR

Component	Volume
2×ddPCR Supermix for Probe (No dUTP)	11 µL
Probes	2.2 µL
cfDNA diluent	8.8 µL
Total	22 µL

ddPCR, droplet digital polymerase chain reaction; dUTP, deoxyuridine triphosphate; cfDNA, cell-free DNA.

Table S3 Cycling conditions for droplet digital polymerase chain reaction

Cycling step	Temperature (°C)	Time	Ramp rate	Cycle
Enzyme activation	95	10 min	2 °C/s	1
Denaturation	94	30 s		40
Annealing/extension	58	1 min		
Enzyme deactivation	98	10 min		1
Hold	4	Infinite		1