Supplementary Material

S1 Table. List of mandatory genes required for the test panels to be used in clinical practice in Korea.

Cancer type	Mandatory genes
Stomach cancer, lung cancer, colorectal	HER2, EGFR, ALK, KRAS, NRAS, BRAF,
cancer, breast cancer, ovarian cancer,	BRCA1, BRCA2, KIT, PDGFRA, IDH1,
melanoma, gastrointestinal stromal tumor,	IDH2, MYC, MYCN
malignant brain tumor, neuroblastoma, cancer of unknown primary origin	
Plasmacytoma	NRAS, KRAS, TP53
Acute myeloid leukemia	CEBPA, FLT3, JAK2, KIT, NPM1, RUNX1, TP53, IDH1, IDH2
Acute lymphoblastic leukemia	TP53, RB1, JAK2, NRAS, IKZF1
Myelodysplastic syndrome,	ASXL1, CALR, CSF3R, DNMT3A, JAK2,
myeloproliferative disease	MPL, RUNXI, SETBPI, SF3B1, SRSF2,
	TET2
Malignant lymphoma	MYD88, BRAF, TP53

In order to use next-generation sequencing test in clinics these mandatory genes should be included in the target gene.