

Supplementary Table 1: FIND IT™ and FOLLOW IT™ Panels

Gene	Positions covered in version 4	Additional positions covered in version 5
AKT1	E17	No changes
ALK	T1151, L1152, C1156, F1174, L1196, L1198, G1202, D1203, S1206, G1269, R1275	Y1278
AR	L702H, S741, W742, V716, H875, F877, T878	M896
BRAF	Q201, G466, F468, G469, Y472, D594, G596, L597, V600, K601	part of Exon15 (V600-M620), G606
CCNE	none	No changes
CTNNB1	D32, S33, G34, S37, T41, S45	No changes
DDR2	L239, I638, S768	No changes
DICER	none	D1705-D1709, G1809, D1810-E1813
EGFR	S492, Exon18, Exon19, Exon20, Exon21	R108, A289, P596, G598,
ERBB2	G309, S310, C805, Exon20	K753, L755, I767, D769,
ESR1	K303, S463, V534, P535, L536, Y537, D538	E380
FGFR1	Not covered	N546, K656
FGFR2	Not covered	S252, P253, W290, A315, S372, Y375, C382, N549, K659, E731, E777
FGFR3	Not covered	R248, S249, G370, S371, Y373, G380, A391, K650
FOXL2	Not covered	C134
GNA11	Q209	No changes
GNAQ	Q209	No changes
GNAS	R201	No changes
HRAS	G12, G13, Q61	No changes
IDH1	R132	No changes
IDH2	R140, R172	No changes
KIT	Exon9, Exon11, Exon13, T670, D816, D820, N822, Y823, A829	S476, Y553, W557,, V559, V560, L576, K642, V654
KRAS	G12, G13, A59, Q61, K117, A146	K5, A11, L19, Q22, G60
MAP2K1(MEK1)	Q56, K57, K59, D67, C121, P124, P387	F53, V60, I103, I111, N122,
MAP2K2(MEK2)	F57, Q60, K61, L119	H123, G132
MET	Y1253, Exon13, Exon 14 (-50 to +25), Exon18	T1010, V1112, H1112, G1181, L1213, D1246, Y1248

NRAS	G12, G13, A59, Q61, K117, A146	G60
NTRK1	Not covered	F589, G595, G667
NTRK3	Not covered	G623, G696
PDGFRA	N659, R560-E571, D842, L839-Y849	P577
PIK3CA	R88, E542, E545, Q546, D549, M1043, N1044, A1046, H1047, G1049	C90, R93, P104, G106, N107, R108, K111, R115, N345, R357, G364, E365, Exon6 [start to P377], C420, E453, P539, E970, E978
POLE	Exon9, Exon10, Exon11, Exon12, Exon13, Exon14	No changes
PTCH1	W844, G1093	No changes
PTEN	R130	A126, G129, R173, R233, K254-K267
RET	C634, V804, M918	G533, K603, C609, C611, C618, C620, C630, D631, G691, E768, L790, Y791, Y806, A883, R886, S904, A919, Exon10, Exon 13, Exon15
ROS1	L2026, G2032	S1986
STK11	Not covered	Q37, P281
SMO	D473, S533, W535	removed
TP53	Exon4, Exon5, Exon6, Exon7, Exon8, Exon9	No changes

Supplementary Table 2: FUSIONS™ Panel Version 1.0

Gene	Targeted Exons
ALK	2, 10, 16, 18, 19, 20
BRAF	8, 9, 10, 11, 15
CSF1	6
EGFR	1, 20, 21, 24, 27
FGFR1	1, 2
FGFR2	10, 17
FGFR3	4, 17, 18
MET	2, 15
NRG1	2, 6
NTRK1	2, 7, 8,10-12
NTRK2	10-15
NTRK3	7, 14, 15, 18
PDGFB	2
PPARG	2
RAF1	8
RET	2, 7-12
ROS1	11, 32-36

Supplementary Table 3: Thresholds for reporting variants. The threshold for all three parameters for each variant were required to be met.

Variant type	Parameter	Version 4		Version 5	
		Plasma	FFPE	Plasma	FFPE
SNV	Probability score	≥ 0.7	≥ 0.7	≥ 0.7	≥ 0.7
	VAF	≥ 0.5	≥ 0.7	≥ 0.3	≥ 0.7
	Coverage	≥ 500	≥ 500	≥ 150	≥ 150
indel	Probability score	≥ 400	≥ 400	≤ 0.39	≤ 0.39
	VAF	≥ 2	≥ 2	≥ 0.7	≥ 0.7
	Coverage	≥ 500	≥ 500	≥ 5000	≥ 5000