

Monthly Mutant Kinase Panel

1	ABL1 (E255K)	53	BTK (E41K)	105	EGFR (d747-749)	157	KSR1 (L639F)
2	ABL1 (E255V)	54	BTK (P190K)	106	EGFR (d747-749/A750P)	158	KSR2 (R676S)
3	ABL1 (F317I)	55	CHK2 (I157T)	107	EGFR (d747-752/P753S)	159	LRRK2 (G2019S)
4	ABL1 (F317L)	56	CK1epsilon (R178C)	108	EGFR (d752-759)	160	LRRK2 (I2020T)
5	ABL1 (G250E)	57	c-Kit (d557-558)	109	EGFR (D761Y)	161	LRRK2 (R1441C)
6	ABL1 (H396P)	58	c-Kit (A829P)	110	EGFR (D770GY)	162	MEK1 (P124L)
7	ABL1 (M351T)	59	c-Kit (D816E)	111	EGFR (D770_N771insNPG)	163	MELK (T460M)
8	ABL1 (Q252H)	60	c-Kit (D816F)	112	EGFR (G719C)	164	p38a (T106M)
9	ABL1 (T315I)	61	c-Kit (D816H)	113	EGFR (G719D)	165	PDGFRa (D842V)
10	ABL1 (V299L)	62	c-Kit (D816L)	114	EGFR (G719S)	166	PDGFRa (T674I)
11	ABL1 (Y253F)	63	c-Kit (D816V)	115	EGFR (L747S)	167	PDGFRa-FIP1L1
12	ABL1 (Y253H)	64	c-Kit (D816Y)	116	EGFR (L858R)	168	PDGFRa (V561D)
13	AKT1 (E17K)	65	c-Kit (D820E)	117	EGFR (L861Q)	169	PDGFRb-TPM3
14	AKT2 (E17K)	66	c-Kit (D820Y)	118	EGFR (T790M)	170	PKD2 (G870E)
15	AKT3 (E17K)	67	c-Kit (K642E)	119	EGFR (T790M/C797S)	171	RET (A883F)
16	AKT3 (G171R)	68	c-Kit (T670I)	120	EGFR (T790M/C797S/L858R)	172	RET (E762Q)
17	ALK (C1156Y)	69	c-Kit (V559A)	121	EGFR (T790M, L858R)	173	RET (G691S)
18	ALK (L1152R)	70	c-Kit (V559D)	122	ERBB2 (D769H)	174	RET (L790F)
19	ALK (L1196M)	71	c-Kit (V559D/V654A)	123	ERBB2 (D769Y)	175	RET (M918T)
20	ALK (F1174L)	72	c-Kit (V559D/T670I)	124	ERBB2 (P780_Y781insGSP)	176	RET (R749T)
21	ALK (F1174L)-NPM1	73	c-Kit (V560G)	125	ERBB2 (R896C)	177	RET (R813Q)
22	ALK (F1174S)	74	c-Kit (V560G/D816V)	126	ERBB2 (V777L)	178	RET (S891A)
23	ALK (G1202R)	75	c-Kit (V560G/N822K)	127	ERBB2 (V777_G778insCG)	179	RET (S904F)
24	ALK (G1269A)	76	c-Kit (V654A)	128	FGFR1 (V561M)	180	RET (S904A)
25	ALK (G1269S)	77	c-Kit (Y823D)	129	FGFR1OP-FGFR1	181	RET (V778I)
26	ALK (R1275Q)	78	c-MER (A708S)	130	FGFR2 (E565G)	182	RET (V804E)
27	ALK (S1206R)	79	c-MET (D1228H)	131	FGFR2 (K526E)	183	RET (V804L)
28	ALK (T1151M)	80	c-MET (D1228N)	132	FGFR2 (K641R)	184	RET (V804M)
29	ALK (T1151-L1152insT)	81	c-MET (F1200I)	133	FGFR2 (K659N)	185	RET (Y791F)
30	ALK (F1174L)-EML4	82	c-MET (M1250T)	134	FGFR2 (N549H)	186	RET (Y806H)
31	ALK-NPM1	83	c-MET (P991S)	135	FGFR2 (R612T)	187	RET-BCR
32	ALK-TFG	84	c-MET (T992I)	136	FGFR2 (V564F)	188	RET-CCDC6 (PTC1)
33	ALK-TPM3	85	c-MET (T1173I)	137	FGFR3 (V555M)	189	RET-PRKAR1A (PTC2)
34	ALK2 (Q207D)	86	c-MET (V1092I)	138	FGFR3 (G697C)	190	RET-NCOA4 (PTC3)
35	ALK2 (R206H)	87	c-MET (Y1230A)	139	FGFR3 (K650E)	191	ROS1 (G2032R)
36	AXL (R499C)	88	c-MET (Y1230C)	140	FGFR3 (K650M)	192	ROS1-GOPC
37	BRAF (d485-489/P490Y)	89	c-MET (Y1230D)	141	FGFR3 (K650Q)	193	ROS1-TPM3
38	BRAF (G464V)	90	c-MET (Y1230H)	142	FGFR4 (N535K)	194	RSK2 (I416V)
39	BRAF (G469A)	91	c-MET (Y1235D)	143	FGFR4 (V550E)	195	RSK2 (L608F)
40	BRAF (K601E)	92	c-Src (T341M)	144	FGFR4 (V550L)	196	TIE2 (A1124V)
41	BRAF (L597V)	93	DDR2 (N456S)	145	FGFR4 (V550M)	197	TIE2 (P883A)
42	BRAF (T599_V600insT)	94	DDR2 (T654M)	146	FLT3 (D835Y)	198	TIE2 (R849W)
43	BRAF (V599E)	95	EGFR (A763_Y764insFHEA)	147	FLT3 (ITD)	199	TIE2 (Y897C)
44	BRAF (V600A)	96	EGFR (C797A)	148	FLT3 (ITD)-NPOS	200	TIE2 (Y897S)
45	BRAF (V600D)	97	EGFR (C797S)	149	FLT3 (ITD)-W51	201	TIE2 (Y1108F)
46	BRAF (V600K)	98	EGFR (C797S/L858R)	150	FLT3 (F594_R595insR)	202	TRKA (G595R)
47	BRAF (R506_K507insVLR)	99	EGFR (d746)	151	FLT3 (F594_R595insREY)	203	TRKA (G667C)
48	BRAF-FAM131B (Fex2Bex9)	100	EGFR (d746-750)	152	FLT3 (R595_E596insEY)	204	TRKA-TFG (TRK-T3)
49	BRAF-KIAA1549 (Kex15Bex9)	101	EGFR (d746-750/C797A)	153	FLT3 (Y591_V592insVDFREYED)	205	TRKA-TPM3
50	BRAF-KIAA1549 (Kex16Bex9)	102	EGFR (d746-750/C797S)	154	FYN (Y531F)	206	TRKA-TPR
51	BRAF-SRGAP3 (Sex12Bex9)	103	EGFR (d746-750/T790M)	155	JAK2 (V617F)	207	YES1 (T348I)
52	BTK (C481S)	104	EGFR (d746-750/T790M/C797S)	156	KSR1 (A635F)	208	ZAP70 (Y319F)