

List A							
Wild type Kinases							
1	ABL1	72	CK2a2	143	GRK7	214	MUSK
2	ABL2/ARG	73	c-Kit	144	GSK3a	215	MYLK3
3	ACK1	74	CLK1	145	GSK3b	216	MYO3B
4	AKT1	75	CLK2	146	Haspin	217	NEK1
5	AKT2	76	CLK3	147	HCK	218	NEK2
6	AKT3	77	CLK4	148	HGK/MAP4K4	219	NEK3
7	ALK	78	c-MER	149	HIPK1	220	NEK4
8	ALK1/ACVRL1	79	c-MET	150	HIPK2	221	NEK6
9	ALK2/ACVR1	80	COT1/MAP3K8	151	HIPK3	222	NEK7
10	ALK4/ACVR1B	81	CSK	152	HIPK4	223	NEK9
11	ALK5/TGFBR1	82	c-Src	153	HPK1/MAP4K1	224	NEK11
12	ALK6/BMPR1B	83	CTK/MATK	154	IGF1R	225	NIK/MAP3K14
13	AMPK(A1/B1/G1)	84	DAPK1	155	IKKa/CHUK	226	NLK
14	AMPK(A1/B1/G2)	85	DAPK2	156	IKKb/IKBKB	227	OSR1/OXSR1
15	AMPK(A1/B1/G3)	86	DCAMKL1	157	IKKe/IKBKE	228	P38a/MAPK14
16	AMPK(A1/B2/G1)	87	DCAMKL2	158	IR	229	P38b/MAPK11
17	AMPK(A2/B1/G1)	88	DDR1	159	IRAK1	230	P38d/MAPK13
18	AMPK(A2/B2/G1)	89	DDR2	160	IRAK4	231	P38g/MAPK12
19	AMPK(A2/B2/G2)	90	DLK/MAP3K12	161	IRR/INSRR	232	p70S6K/RPS6KB1
20	ARAF	91	DMPK	162	ITK	233	p70S6Kb/RPS6KB2
21	ARK5/NUAK1	92	DMPK2/CDC42BPG	163	JAK1	234	PAK1
22	ASK1/MAP3K5	93	DRAK1/STK17A	164	JAK2	235	PAK2
23	Aurora A	94	DYRK1/DYRK1A	165	JAK3	236	PAK3
24	Aurora B	95	DYRK1B	166	JNK1	237	PAK4
25	Aurora C	96	DYRK2	167	JNK2	238	PAK5
26	AXL	97	DYRK3	168	JNK3	239	PAK6
27	BLK	98	DYRK4	169	KDR/VEGFR2	240	PASK
28	BMPR2	99	EEF2K	170	KHS/MAP4K5	241	PBK/TOPK
29	BMX/ETK	100	EGFR	171	LATS1	242	PDGFRa
30	BRAF	101	EIF2AK1/HRI	172	LATS2	243	PDGFRb
31	BRK	102	EIF2AK2	173	LCK	244	PDK1/PDHK1
32	BRSK1	103	EIF2AK3/PERK	174	LCK2/ICK	245	PDK2/PDHK2
33	BRSK2	104	EIF2AK4/GCN2	175	LIMK1	246	PDK3/PDHK3
34	BTK	105	EPHA1	176	LKB1	247	PDK4/PDHK4
35	CAMK1a	106	EPHA2	177	LOK/STK10	248	PDK1/PDPK1
36	CAMK1b	107	EPHA3	178	LRRK2	249	PHKg1
37	CAMK1d	108	EPHA4	179	LYN	250	PHKg2
38	CAMK1g	109	EPHA5	180	LYN B	251	PIM1
39	CAMK2a	110	EPHA6	181	MAPKAPK2	252	PIM2
40	CAMK2b	111	EPHA7	182	MAPKAPK3	253	PIM3
41	CAMK2d	112	EPHA8	183	MAPKAPK5/PRAK	254	PKA
42	CAMK2g	113	EPHB1	184	MARK1	255	PKAcb
43	CAMK4	114	EPHB2	185	MARK2/PAR-1Ba	256	PKAcg
44	CAMKK1	115	EPHB3	186	MARK3	257	PKCa
45	CAMKK2	116	EPHB4	187	MARK4	258	PKCb1
46	CDC7/DBF4	117	ERBB2/HER2	188	MEK1	259	PKCb2
47	CDK1/cyclin A	118	ERBB4/HER4	189	MEK2	260	PKCd
48	CDK2/cyclin A1	119	ERK1/MAPK3	190	MEKK1	261	PKCepsilon
49	CDK1/cyclin B	120	ERK2/MAPK1	191	MEKK2	262	PKCeta
50	CDK1/cyclin E	121	ERK5/MAPK7	192	MEKK3	263	PKCg
51	CDK2/cyclin A	122	FAK/PTK2	193	MELK	264	PKCiota
52	CDK2/cyclin E	123	FER	194	MINK/MINK1	265	PKCmu/PRKD1
53	CDK3/cyclin E	124	FES/FPS	195	MKK4	266	PKCnu/PRKD3
54	CDK4/cyclin D1	125	FGFR1	196	MKK6	267	PKCtheta
55	CDK4/cyclin D3	126	FGFR2	197	MLCK/MYLK	268	PKCzeta
56	CDK5/p25	127	FGFR3	198	MLCK2/MYLK2	269	PKD2/PRKD2
57	CDK5/p35	128	FGFR4	199	MLK1/MAP3K9	270	PKG1a
58	CDK6/cyclin D1	129	FGR	200	MLK2/MAP3K10	271	PKG1b
59	CDK6/cyclin D3	130	FLT1/VEGFR1	201	MLK3/MAP3K11	272	PKG2/PRKG2
60	CDK7/cyclin H	131	FLT3	202	MNK1	273	PKN1/PRK1
61	CDK9/cyclin K	132	FLT4/VEGFR3	203	MNK2	274	PKN2/PRK2
62	CDK9/cyclin T1	133	FMS	204	MRCKa/CDC42BPA	275	PKN3/PRK3
63	CHK1	134	FRK/PTK5	205	MRCKb/CDC42BPB	276	PLK1
64	CHK2	135	FYN	206	MSK1/RPS6KA5	277	PLK2
65	CK1a1	136	GCK/MAP4K2	207	MSK2/RPS6KA4	278	PLK3
66	CK1d	137	GRK1	208	MSSK1/STK23	279	PLK4/SAK
67	CK1epsilon	138	GRK2	209	MST1/STK4	280	PRKX
68	CK1g1	139	GRK3	210	MST2/STK3	281	PYK2
69	CK1g2	140	GRK4	211	MST3/STK24	282	RAF1
70	CK1g3	141	GRK5	212	MST4	283	RET
71	CK2a	142	GRK6	213	mTOR/FRAP1	284	RIPK2

List A	
Wild type Kinases	
285	RIPK3
286	RIPK5
287	ROCK1
288	ROCK2
289	RON/MST1R
290	ROS/ROS1
291	RSK1
292	RSK2
293	RSK3
294	RSK4
295	SGK1
296	SGK2
297	SGK3/SGKL
298	SIK1
299	SIK2
300	SLK/STK2
301	SNARK/NUAK2
302	SRMS
303	SRPK1
304	SRPK2
305	SSTK/TSSK6
306	STK16
307	STK22D/TSSK1
308	STK25/YSK1
309	STK32B/YANK2
310	STK32C/YANK3
311	STK33
312	STK38/NDR1
313	STK38L/NDR2
314	STK39/STLK3
315	SYK
316	TAK1
317	TAOK1
318	TAOK2
319	TAOK3/JIK
320	TBK1
321	TEC
322	TESK1
323	TGFBR2
324	TIE2/TEK
325	TLK1
326	TLK2
327	TNK1
328	TRKA
329	TRKB
330	TRKC
331	TRPM7/CHAK1
332	TSSK2
333	TSSK3/STK22C
334	TTBK1
335	TTBK2
336	TTK
337	TXK
338	TYK1/LTK
339	TYK2
340	TYRO3/SKY
341	ULK1
342	ULK2
343	ULK3
344	VRK1
345	VRK2
346	WEE1
347	WNK1
348	WNK2
349	WNK3
350	YES/YES1
351	ZAK/MLTK
352	ZAP70
353	ZIPK/DAPK3

List B			
Mutant Kinases			
1	ABL1 (E255K)	41	EGFR (T790M, L858R)
2	ABL1 (F317I)	42	EGFR (d746-750/T790M)
3	ABL1 (G250E)	43	EGFR (d746-750)
4	ABL1 (H396P)	44	EGFR (d747-749/A750P)
5	ABL1 (M351T)	45	EGFR (d747-752/P753S)
6	ABL1 (Q252H)	46	EGFR (d752-759)
7	ABL1 (T315I)	47	FGFR1 (V561M)
8	ABL1 (Y253F)	48	FGFR2 (N549H)
9	ALK (C1156Y)	49	FGFR3 (G697C)
10	ALK (L1196M)	50	FGFR3 (K650E)
11	ALK (F1174L)	51	FGFR3 (K650M)
12	ALK (R1275Q)	52	FGFR4 (N535K)
13	BRAF (V599E)	53	FGFR4 (V550E)
14	BTK (E41K)	54	FGFR4 (V550L)
15	CHK2 (I157T)	55	FLT3 (D835Y)
16	c-Kit (A829P)	56	FLT3 (ITD)
17	c-Kit (D816H)	57	JAK2 (V647F)
18	c-Kit (D816V)	58	LRRK2 (G2019S)
19	c-Kit (D820E)	59	LRRK2 (I2020T)
20	c-Kit (N822K)	60	LRRK2 (R1441C)
21	c-Kit (T670I)	61	p38a (T106M)
22	c-Kit (V559D)	62	PDGFRa (D842V)
23	c-Kit (V559D/V654A)	63	PDGFRa (T674I)
24	c-Kit (V559D/T670I)	64	PDGFRa (V561D)
25	c-Kit (V560G)	65	RET (E762Q)
26	c-Kit (V654A)	66	RET (G691S)
27	c-MET (D1228H)	67	RET (M918T)
28	c-MET (D1228N)	68	RET (R749T)
29	c-MET (F1200I)	69	RET (R813Q)
30	c-MET (M1250T)	70	RET (V804L)
31	c-MET (Y1230A)	71	RET (V804M)
32	c-MET (Y1230C)	72	RET (Y791F)
33	c-MET (Y1230D)	73	TIE2 (R849W)
34	c-MET (Y1230H)	74	TIE2 (Y897S)
35	c-Src (T341M)	75	TIE2 (Y1108F)
36	EGFR (G719C)		
37	EGFR (G719S)		
38	EGFR (L858R)		
39	EGFR (L861Q)		
40	EGFR (T790M)		

List C	
Special Kinases	
1	DNA-PK
2	TNIK

List D		
Lipid Kinases		Assay
1	PI3Ka (p110a/p85a)	HTRF
2	PI3Kb (p110b/p85a)	HTRF
3	PI3Kd (p110d/p85a)	HTRF
4	PI3Kq (p120q)	HTRF
5	PI3KC2a	ADP-Glo
6	PI3KC3	ADP-Glo
7	PI4Ka	ADP-Glo
8	PI4Kb	ADP-Glo
9	SPHK1	ADP-Glo
10	SPHK2	ADP-Glo