

Patient 2

Gene	Diag	Relapse
BRCA1	0.46 →	0.45
FGFR3	0.45 →	0.46
DNAH11	0.49 →	0.45
RNF213	0.47 →	0.51
<i>PLCE1</i>	0.45 →	0.5
<i>MAP4K4</i>	0/331 →	0.14
<i>DIS3</i>	0.1 →	5/209

Patient 4

Gene	Diag	Relapse
TMEM106C	0.47 →	0.41
COL2A1	0.48 →	0.54
LRP1B	0.51 →	0.47

Patient 5

Gene	Diag	Relapse
WWOX	0.93 →	0.89
NOTCH1	0.33 →	0.29
<i>KRAS</i>	0/375 →	0.47
<i>WHSC1</i>	0/504 →	0.42
<i>DNAH5</i>	0/563 →	0.25

Patient 6

Gene	Diag	Relapse
NRAS	0.46 →	0.49
TMEM106C	0.45 →	0.50
COL2A1	0.45 →	0.46
<i>TP53</i>	0/593 →	0.5
<i>EP300</i>	0/99 →	0.22

Patient 7

Gene	Diag	Relapse
SLAMF8	0.4 →	0.49
KRAS	0.16 →	0.35
USP29	0.44 →	0.82
ATR	0.50 →	0.53
ZFH3	0.47 →	0.5
FAT4	0.42 →	0.46

Patient 8

Gene	Diag	Relapse
ATM	0.14 →	0.13
TCF3	0.5 →	0.53

Patient 9

Gene	Diag	Relapse
RUNX1	0.49 →	0.55
PBRM1	0.54 →	0.5

Patient 10

Gene	Diag	Relapse
FAM46C	0.39 →	0.42
ATM	0.45 →	0.46
DNAH9	0.46 →	0.51
EGFR	0.5 →	0.5
<i>BRCA2</i>	9/108 →	0.14

Patient 11

Gene	Diag	Relapse
LRRK2	0.89 →	0.9
TMEM106C	0.51 →	0.48
COL2A1	0.51 →	0.53
<i>KRAS</i>	0/273 →	0.39
<i>ROBO1</i>	2/378 →	0.24
<i>LRP1B</i>	0/255 →	0.15

Patient 12

Gene	Diag	Relapse
ATM	0.62 →	0.59
KRAS	0.87 →	0.82
FOXA2	0.52 →	0.45
SF3B1	0.34 →	0.33

Patient 13

Gene	Diag	Relapse
NRAS	0.48 →	0.43
IRF4	0.5 →	0.43
DNAH11	0.5 →	0.5

Patient 14

Gene	Diag	Relapse
APC	0.3 →	0.38
MAP3K1	0.29 →	0.32
HOX19	0.12 →	0.13
NOTCH1	0.71 →	0.7
PTPRT	0.54 →	0.48
<i>KRAS</i>	1/370 →	0.17
<i>FGFR3</i>	0.13 →	4/498

Patient 15

Gene	Diag	Relapse
FAT4	0.45 →	0.45
KRAS	0.45 →	0.42
DIS3	0.97 →	0.9
<i>CYLD</i>	0.23 →	0.70

Patient 16

Gene	Diag	Relapse
CUL4A	0.67 →	0.95
RUNX1	0.62 →	0.7
SP140	0.34 →	0.28
<i>DNMT3A</i>	0.1 →	2/328

Patient 17

Gene	Diag	Relapse
MRE11A	0.54 →	0.61
ARIDIA	0.55 →	0.44
ROS1	0.59 →	0.51
PTPRZ1	0.66 →	0.64
BRAF	0.22 →	0.23
<i>KRAS</i>	0.1 →	0/350

Patient 18

Gene	Diag	Relapse
NRAS	0.32 →	0.22
TMEM106C	0.38 →	0.44
COL2A1	0.41 →	0.48
MAP3K9	0.39 →	0.42
MAP3K1	0.27 →	0.32
BRAF	0.24 →	0.29
NOTCH1	0.26 →	0.34
KMT2C	0.26 →	0.38

Patient 19

Gene	Diag	Relapse
KRAS	0.49 →	0.57
<i>CREBBP</i>	0/295 →	0.39
<i>ZFH3</i>	0/224 →	0.13
<i>EPHA3</i>	0/252 →	0.11
<i>PNRC1</i>	0/107 →	0.22

Patient 20

Gene	Diag	Relapse
NRAS	0.44 →	0.48
PRDM1	0.65 →	0.64
PKHD1	0.63 →	0.65

Patient 21

Gene	Diag	Relapse
NRAS	0.48 →	0.49
TRAF3	0.94 →	0.8
NF1	0.51 →	0.4
SF3B1	0.47 →	0.44
EPHA3	0.46 →	0.42
PKHD1	0.48 →	0.49

Patient 22

Gene	Diag	Relapse
NRAS	0.49 →	0.5
ERN1	0.41 →	0.34
ACTG1	0.44 →	0.44
MAGED1	0.97 →	0.98

Patient 23

Gene	Diag	Relapse
KRAS	0.35 →	0.36
DDX1	0.54 →	0.6
WWOX	0.13 →	0.08
BRCA1	0.47 →	0.46
SNX7	0.21 →	0.18
<i>NCOR1</i>	0.37 →	0/252
<i>TP53</i>	0/206 →	0.59

Patient 24

Gene	Diag	Relapse
NRAS	0.47 →	0.45
WWOX	1 →	0.64
IKZF3	0.51 →	0.5
TP53	0.47 →	0.44
RNF213	0.5 →	0.55
CYLD	4/104 →	0.18

Patient 25

Gene	Diag	Relapse
C11orf30	0.31	→ 0.26
WWOX	0.18	→ 0.09
LRPB1	0.49	→ 0.47
NEB	0.55	→ 0.5
SP140	0.47	→ 0.45
KRAS G13D	4/303	→ 0.42
KRAS A146V	0.25	→ 2/283
RAG2	0.17	→ 4/771

Patient 26

Gene	Diag	Relapse
BRCA2	0.42	→ 0.43
DIS3	0.46	→ 0.46
ARID3A	0.63	→ 0.62
LRPB1	0.32	→ 0.2
PI4KA	0.97	→ 0.8
ALK	0.45	→ 0.47
ROBO1	0.44	→ 0.48
APC	0.49	→ 0.53
LRKK2	0/355	→ 0.21

Patient 27

Gene	Diag	Relapse
ARID5B	0.47	→ 0.52
NOTCH2	0.38	→ 0.41
CYLD	0.46	→ 0.48
DNAH9	0.42	→ 0.4
RUNX1	0.66	→ 0.65
LRP1B	0.45	→ 0.44

Patient 28

Gene	Diag	Relapse
ARID2	0.52	→ 0.46
ARID3A	0.29	→ 0.24
EGR1	0.42	→ 0.45
BRAF	0.36	→ 0.4
USP9X	0.42	→ 0.44
DIS3	0.37	→ 0/237

Patient 29

Gene	Diag	Relapse
MGA	0.33	→ 0.49
NEB	0.36	→ 0.41
BRAF	0.44	→ 0.46
TET2	0/657	→ 0.16
DIS3	0.78	→ 0/201
TCF3	0.35	→ 0/304

Patient 30

Gene	Diag	Relapse
KRAS	0.3	→ 0.38
RNF213	0.51	→ 0.47
NFE2L2	0.49	→ 0.49
DNMT3A	0.42	→ 0.47
DNAH11	0.51	→ 0.49

Patient 31

Gene	Diag	Relapse
NRAS	0.41	→ 0.99
EP400	0.5	→ 0.53
DIS3	0.52	→ 0.49
NCOR1	0.33	→ 0.35
USP29	0.47	→ 0.5
ATR (R1082H)	0.35	→ 0.29
ATR (V316I)	0.32	→ 0.28
PCL0	0.35	→ 0.35
KMT2D	0.45	→ 0.55
FAM46C	0.73	→ 0.99

Patient 32

Gene	Diag	Relapse
KRAS	0.48	→ 0.48
KMT2D	0.56	→ 0.50
BRCA1	0.54	→ 0.47
BRCA2	0.49	→ 0.5
TSHZ1	0.6	→ 0.39
PTPRT	0.53	→ 0.51
IRF4	0.51	→ 0.5

Patient 33

Gene	Diag	Relapse
ZFH3	0.37	→ 0.36
FANCD2	0.43	→ 0.42
SETD2	0.49	→ 0.50
TET2	1	→ 1
NOTCH4	0.39	→ 0.30
NOTCH1	0.48	→ 0.39
USP9X	0.95	→ 0.97
FANCA	0.38	→ 0.33
FAT1	0.49	→ 0.61
KRAS	0.22	→ 1/727
TRAF3	0.59	→ 1/445
NRAS	1/461	→ 0.25
WHSC1	0/758	→ 0.16
PRDM1	0/789	→ 0.13
FAM46C	2/620	→ 0.21

Patient 34

Gene	Diag	Relapse
NRAS	0.4	→ 0.42
ADAM29	0.40	→ 0.35
CDKN2A	0.48	→ 0.56
DNAH9	0.48	→ 0.48
LRP1B	0.39	→ 0.4
PTPRK	0/369	→ 0.15

Patient 36

Gene	Diag	Relapse
KDM5B	0/885	→ 0.26

Patient 37

Gene	Diag	Relapse
FAT3	0.35	→ 0.3
DIS3	0.54	→ 0.4
RPL5	0.33	→ 0.35
ATM	0.27	→ 0.23

Patient 39

Gene	Diag	Relapse
KRAS	0.48	→ 0.45
IRF4	0.34	→ 0.1
PIK3C2G	0/436	→ 0.34

Patient 40

Gene	Diag	Relapse
BIRC3	0.26	→ 0.35
KRAS	0.33	→ 0.39
SF3B1	0.14	→ 0.28
IKZF1	0.23	→ 0.28

Patient 44

Gene	Diag	Relapse
TP53	0.45	→ 0.47
PTRD	0.49	→ 0.47
MAP3K4	0.18	→ 0/248

Patient 45

Gene	Diag	Relapse
CCND1	0.39	→ 0.37
DNAH9	0.35	→ 0.39
IRF4	0.38	→ 0.37
NTRK2	0.25	→ 0.38

Patient 46

Gene	Diag	Relapse
KRAS	0.41	→ 0.47
ASAP2	0.46	→ 0.46
DNAH11	0.38	→ 0.47
USP9X	1/202	→ 0.18

Patient 47**Patient 48**

Gene	Diag	Relapse
ACTG1	0.4	→ 0.53
HIST1H1C	0.39	→ 0.32
BRAF	0.28	→ 0.48
NRAS	1/199	→ 0.35
RNF213	0/412	→ 0.14

Patient 51

Gene	Diag	Relapse
NRAS	0.33	→ 0.22
KMT2C	0.26	→ 0.17

Patient 53

Gene	Diag	Relapse
KRAS	0.49	→ 0.45
PTRD	0.14	→ 0/186