

Screening 1

	Mock	0.1% MMS	100mM HU	5µg/ml CPT	2µg/ml Phleo	150J/m ² UV	No. of mutations	Genes mutated
wt							—	
sae2Δ							—	
sup1							4	top1 tip1 dys1 tre2
sup2							2	top1 dys1
sup3							3	top1 vba3 dys1
sup4							3	top1 vtc2 dys1
sup5							3	top1 vba3 dys1
sup6							3	top1 imd2 dys1
wt							—	
sae2Δ							—	
sup7							3	top1 imd2 dys1
sup8							3	top1 urb1 dys1
sup9							2	top1 dnf3
sup10							3	top1 imd2 dnf3
sup11							2	top1 dnf3
sup12							2	top1 dnf3
wt							—	
sae2Δ							—	
sup13							2	top1 dnf3
sup14							1	dnf3
sup15							2	top1 dnf3
sup16							2	top1 dnf3
sup17							1	mre11-H37R
sup18							2	top1 imd2
wt							—	
sae2Δ							—	
sup19							n.d.	
sup20							1	dys1
sup21							n.d.	
sup22							1	top1
sup23							2	top1 coq10
sup24							1	imd2

Screening 2

wt							—	
sae2Δ							—	
sup25							1	ysh1
sup26							3	mre11-H37Y ysh1 rps6a
sup27							3	top1 ysh1 pgi1
sup28							3	mre11-H37Y ysh1 rps6a
sup29							1	mre11-H37R
sup30							1	top1
wt							—	
sae2Δ							—	
sup31							1	top1
sup32							1	top1
sup33							2	mre11-H37Y ysh1
sup34							1	ysh1
sup35							2	top1 dnf3
sup36							2	top1 dnf3
wt							—	
sae2Δ							—	
sup37							1	dnf3
sup38							n.a.	
sup39							3	top1 imd2 ysh1
sup40							2	mre11-H37Y ysh1
sup41							1	top1
sup42							1	ysh1
wt							—	
sae2Δ							—	
sup43							3	mre11-H37Y imd2 ysh1
sup44							3	top1 ysh1 rtc1
sup45							3	mre11-H37Y ysh1 yal063C-A
sup46							3	mre11-H37Y imd2 ysh1
sup47							2	top1 dnf3
sup48							2	mre11-H37Y ysh1