

a.

MEFs	WT		Rif1-/-	
HU (4mM)	-	+	-	+
%RF, Expt#1	5.5 (72)	49 (82)	5.6 (71)	21 (71)
%RF, Expt#2	7.0 (70)	42.8 (70)	5.7 (70)	24 (70)
%RF, Expt#3	7.0 (70)	44 (70)	8.0 (70)	24 (70)
Mean, SD	6.5, 0.866	45.33, 3.252	6.433, 1.358	22.93, 1.701

b.

MEFs	WT		Rif1-/-	
HU (4mM)	+	+	+	+
siRad51	-	+	-	+
%RF, Expt#1	41.0 (70)	5.7 (70)	25 (70)	4 (71)
%RF, Expt#2	39.0 (71)	8.5 (70)	25.2 (70)	6.49 (77)
%RF, Expt#3	40.28 (72)	8.97 (78)	24.6 (69)	6.58 (76)
Mean, SD	40.09, 1.013	7.723, 1.768	24.93, 0.3055	5.69, 1.464

c.

MEFs	WT		Rif1-/-	
HU (4mM)	+	+	+	+
Dna2i	-	+	-	+
%RF, Expt#1	49 (73)	48 (72)	25.7 (70)	47.8 (71)
%RF, Expt#2	41 (70)	50 (70)	25.7 (70)	42.8 (70)
%RF, Expt#3	41 (70)	47 (70)	22.8 (70)	44.3 (70)
Mean, SD	43.8, 4.508	48.33, 1.528	24.73, 1.674	44.97, 2.566

d.

MEFs	Rif1-/-				
HU (4mM)	+	+	+	+	+
Mutants	-	del C1	del C2	del heat	hRif FL
%RF, Expt#1	25.6 (74)	25.7 (70)	24.3 (70)	50 (70)	50 (70)
%RF, Expt#2	27.0 (70)	26.7 (70)	24.6 (70)	42.8 (70)	41 (70)
%RF, Expt#3	24.8 (70)	23.9 (70)	22.2 (70)	44.5 (70)	43 (70)
Mean, SD	25.8, 1.114	25.43, 1.419	23.7, 1.308	45.77, 3.763	44.67, 4.726

e.

MEFs	WT		Rif1-/-	
HU (4mM)	+	+	+	+
PP1i	-	+	-	+
%RF, Expt#1	40 (70)	21 (70)	23.6 (70)	27.5 (70)
%RF, Expt#2	41 (70)	29 (70)	27.0 (70)	27.5 (70)
%RF, Expt#3	43 (70)	27 (70)	23.5 (70)	28.5 (70)
Mean, SD	41.2, 1.311	24.7, 3.884	25.33, 1.992	27.67, 0.2887