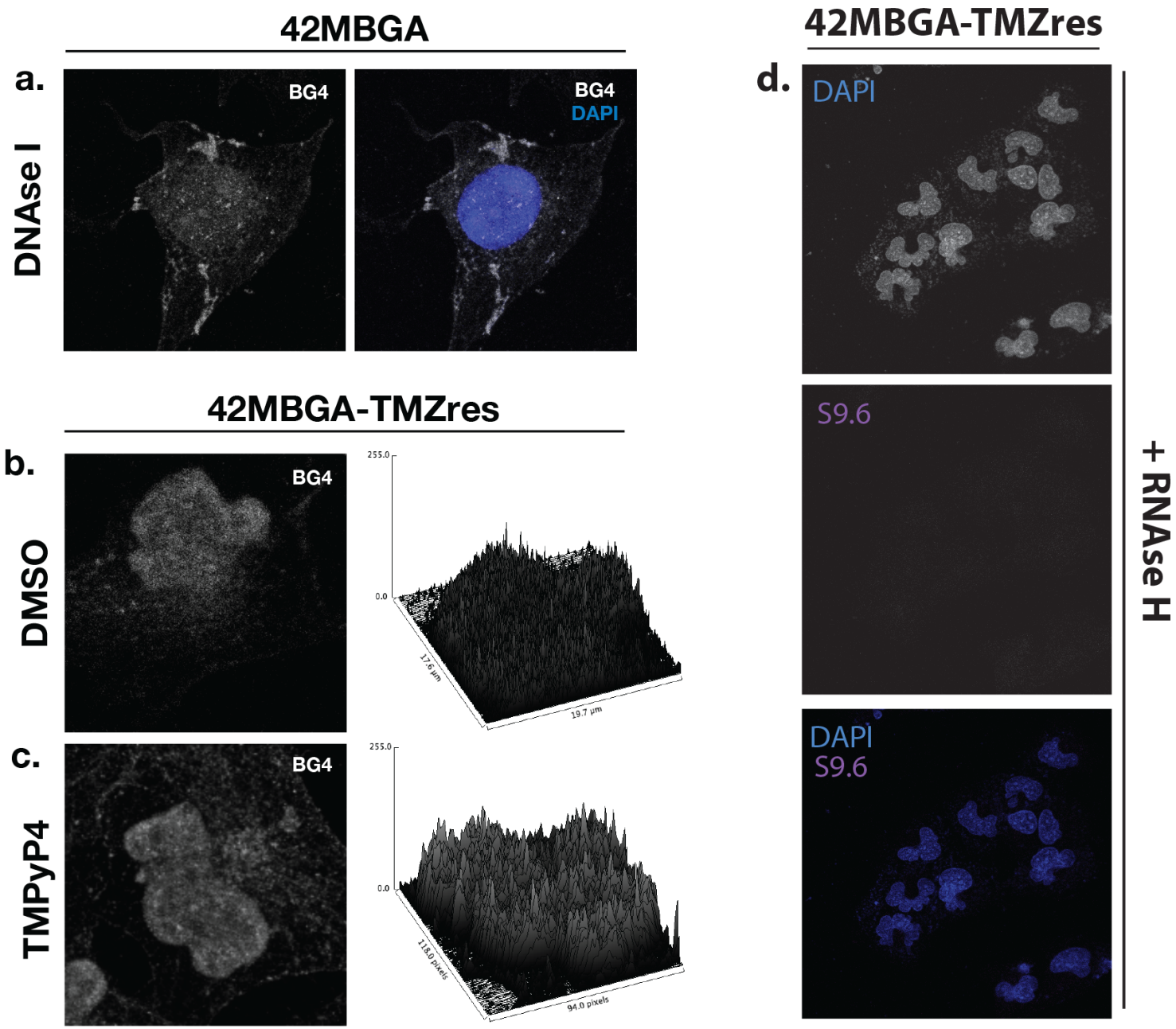
Supplementary Figure 1

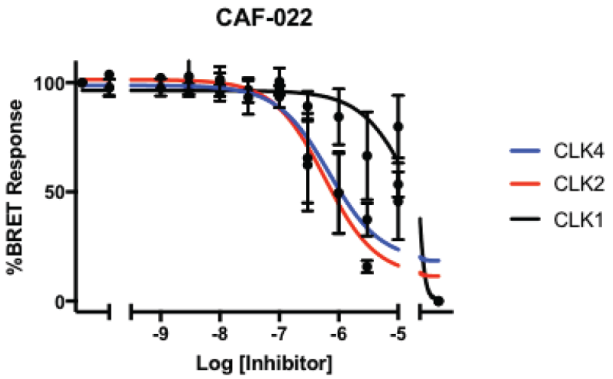


Supplementary Figure 2

a.

Kinase	Nanosyn %I		SGC DSF	DiscoverX		RBC
	100 nM	1.0 µM	ΔT_m / °C	PoC @1µM	K_D	IC_{50}
CLK1				2.90%	26 nM	10 nM
CLK2	**81%**	**96%**		**8.30%**	**4.9 nM**	**0.73 nM**
CLK3	4%	22%	0.4°C	89%	nt	nt
CLK4			5.8°C	27%	140 nM	8.8 nM
DYRK1A	8%	22%	1.8°C	73%	nt	nt
DYRK1B	5%	39%		81%	nt	nt
DYRK2	1%	6%	2.1°C	100%	nt	nt
DYRK3					nt	> 10 µM
DYRK4					nt	> 10 µM
HIPK1	20%	62%		20%	3.6 µM	> 10 µM
HIPK2				27%	530 nM	nt
HIPK3				74%	nt	nt
HIPK4	4%	24%		76%	nt	nt
SRPK1	-1%	-1%	0.4°C	100%	nt	nt
SRPK2			0.1°C	100%	nt	nt
MSSK1	0%	0%		100%	nt	nt
PRP4				100%		
STK16			6.5°C	6.90%	210 nM	100 nM
ERK8				4.40%	35 nM	120 nM
NEK6	0%	2%		11%	84 nM	> 10 µM
NEK7	3%	2%		19%	140 nM	> 10 µM

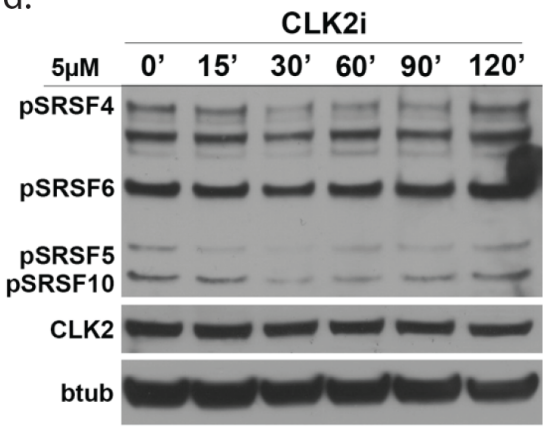
b.



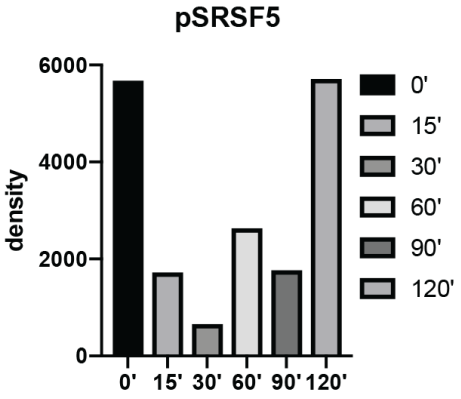
c.

NanoBRET IC50s
CLK1 IC50 = >10,000 nM
CLK2 IC50 = 580 nM
CLK4 IC50 = 690 nM

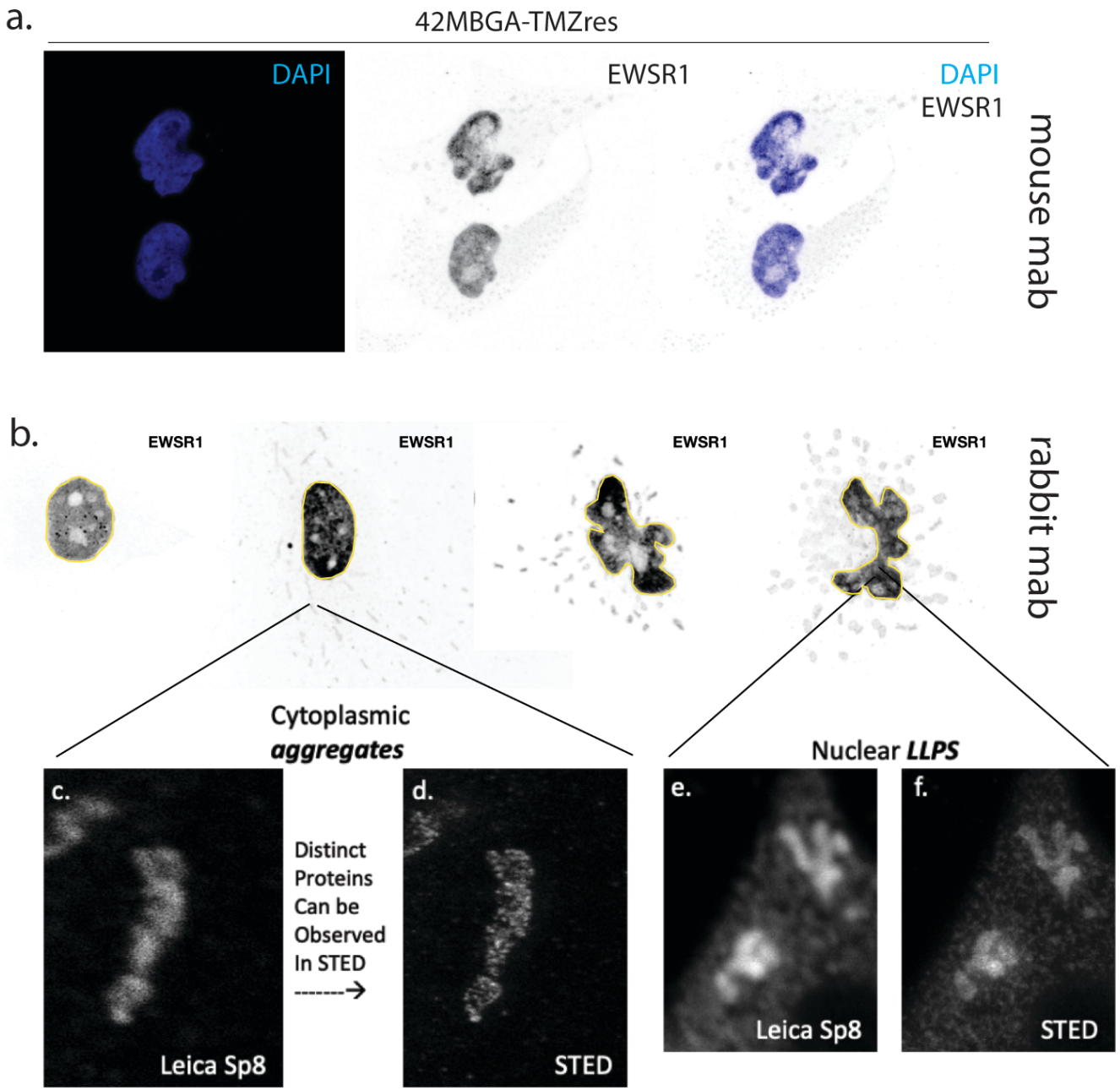
d.



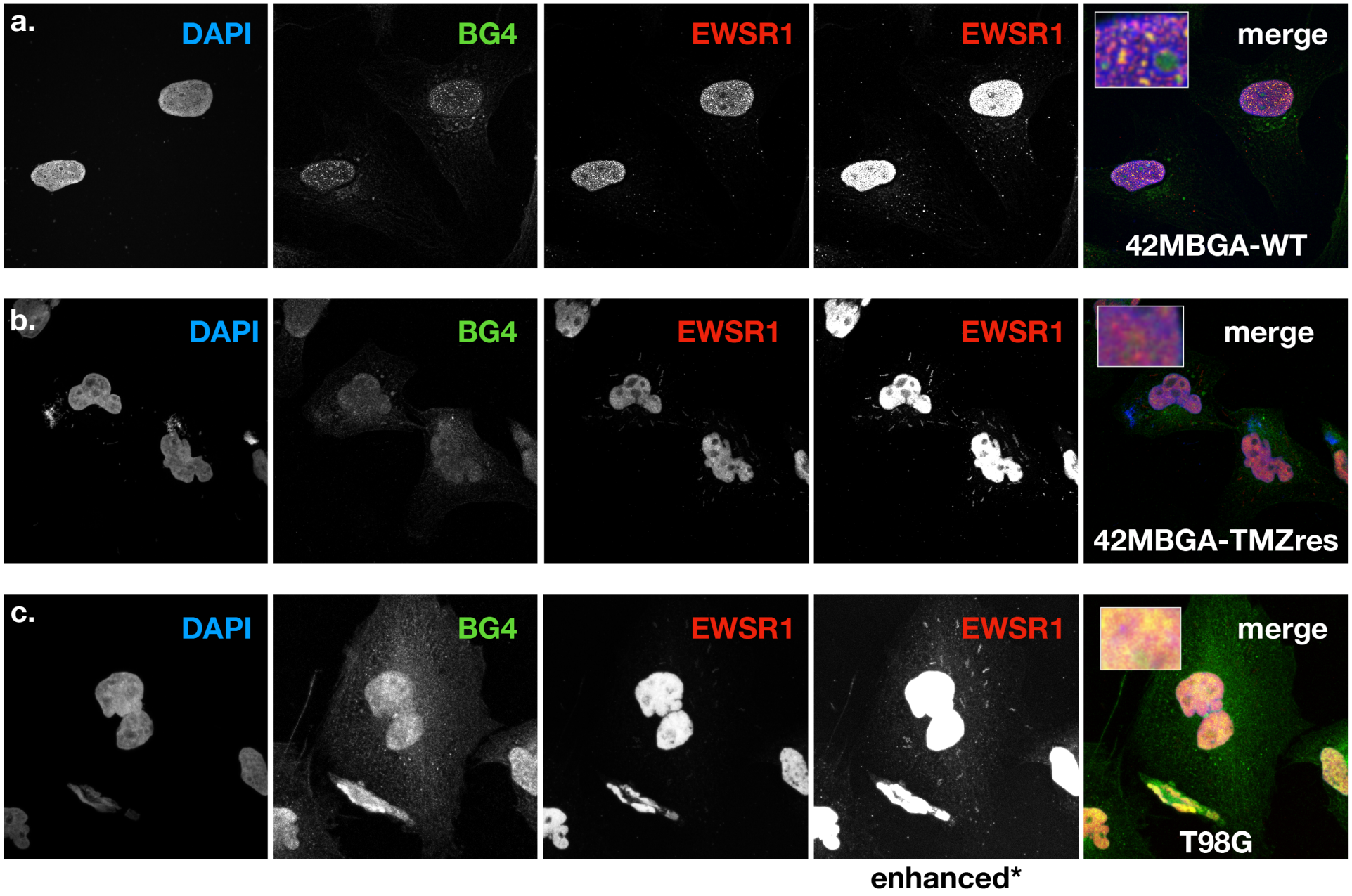
e.



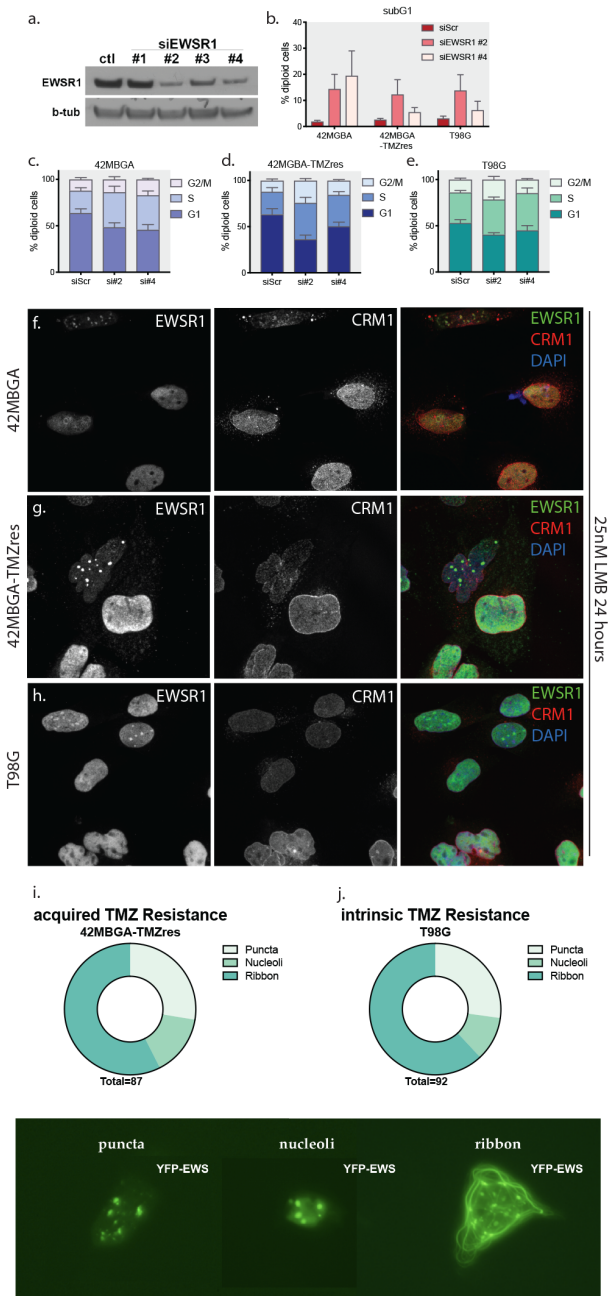
Supplementary Figure 3



Supplementary Figure 4



Supplementary Figure 5



Supplementary Figure 6