

Supplementary Fig. 1

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а						DNA/		
DMSO	DNA 5µm	ACA	Nucleolin	6	ACA/B23	Nuci/B23	0.49	
	8	250	00	•	*0	<b>1</b>	81.3% ±	
CPT	E.		0	0	0	•	85.9% ± 2.2	
			0,0	0.0	20 2			
BMH21					4	a.	93.3% ± 2.6	
BMH21-CPT				1. s		2. s	95.2% ± 0.35	



b



Supplementary Fig. 4

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Primers	DMSO	Etop (Fold change)	]	
GAPDH	1.00	0.93	]	
RPL30	1.00	0.97	1	<u>۲</u>
D1Z5-b	1.00	2.81	Old	ere
D1Z5-c	1.00	10.74	Old 🕂	E E
D1Z7	1.00	71.12	Young	enti
D2Z1	1.00	206.58		0
D3Z1	1.00	20.77	]	
D4Z1	1.00	162.11	]	
D5Z1	1.00	139.47	]	
D6Z1	1.00	196.75	]	2
D7Z1	1.00	63.20	Young	ere
D7Z2	1.00	407.75	Old	E E
D8Z2	1.00	24.88	]	enti
D9Z4	1.00	27.50	]	Ő
D10Z1	1.00	33.83	]	
D11Z1	1.00	261.85	]	
D12Z3	1.00	31.82	]	
D13Z1	1.00	1.17	]	
D13Z2	1.00	99.61	]	
D13Z3	1.00	6.11	]	
D13Z6	1.00	1.27	]	
D13Z7	1.00	18.18	]	
D13Z8	1.00	2.72	]	
D13Z9	1.00	8.28	]	
D14Z1	1.00	36.74		
D14Z2	1.00	55.56		
D14Z3	1.00	35.30	]	
D15Z3	1.00	22.18		
D16Z2	1.00	87.87		17
D17Z1	1.00	128.83	Young	l er
D17Z1-b	1.00	29.20	Old	l o
D18Z1	1.00	30.23		' iui
D18Z2	1.00	12.10		0
D19Z4	1.00	1.71		
D19Z5	1.00	0.55		
D20Z2	1.00	51.70		
D21Z1	1.00	1.15		
D22Z4-1	1.00	95.65		
D22Z4-2	1.00	2.80		
D22Z5	1.00	10.83		
DXZ1	1.00	33.14		





Supplementary Fig. 7









RPE-1 Chromosome 10 (whole chromosome, 134Mb)

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RPE-1 Chromosome 20 (whole chromosome, 65Mb)

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Supplementary Fig. 9

