

Fig. 1A

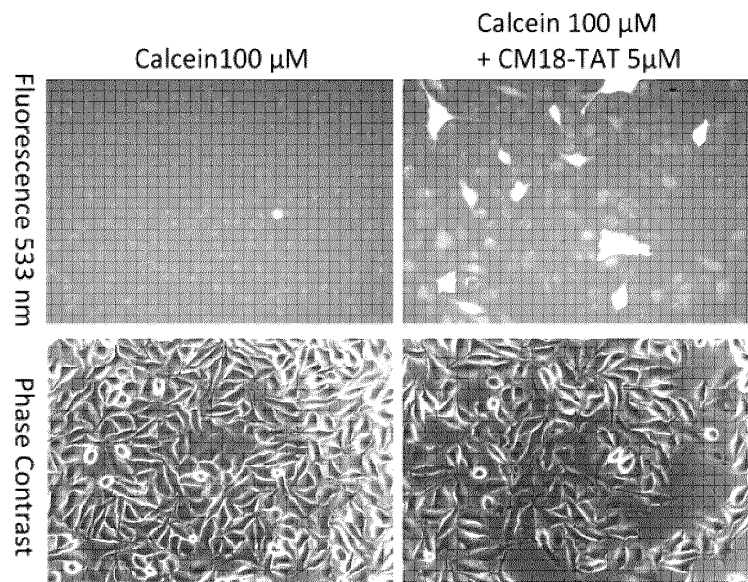


Fig. 1B

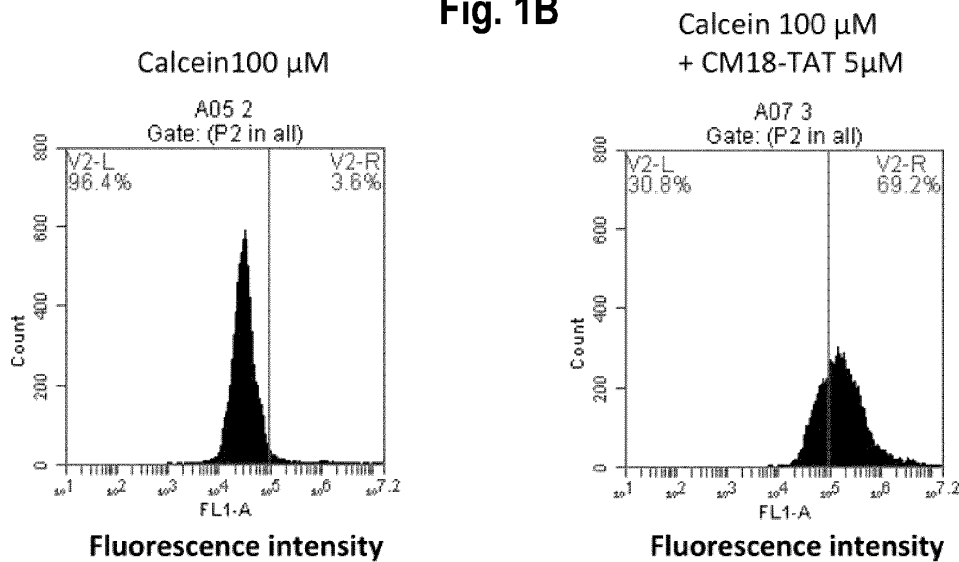


Fig. 2

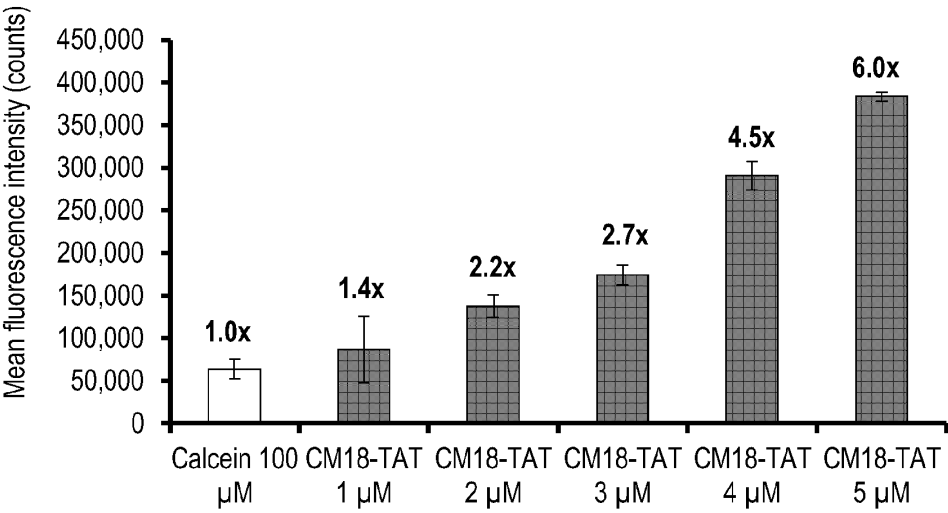


Fig. 3

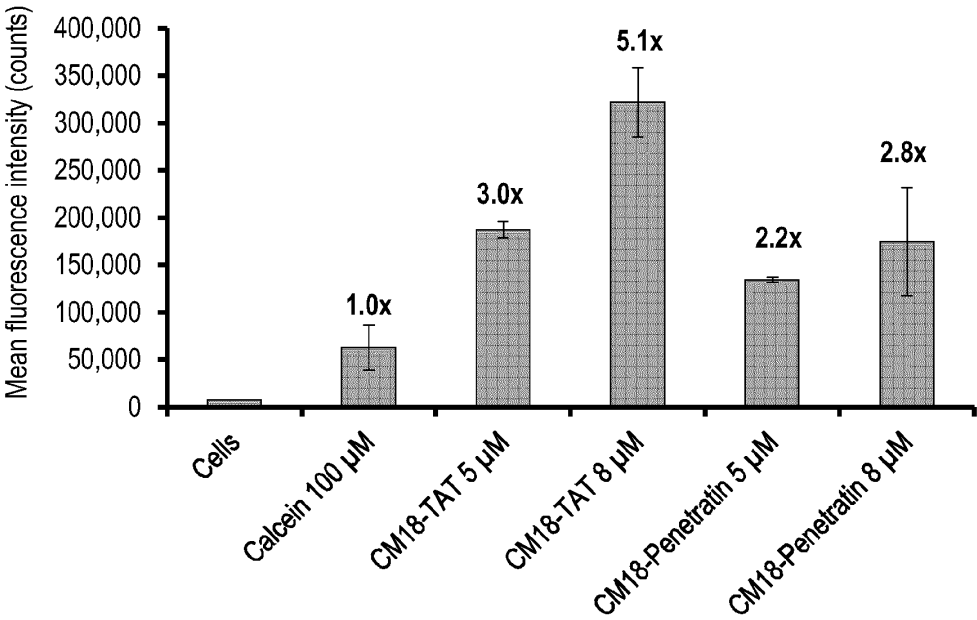


Fig. 4

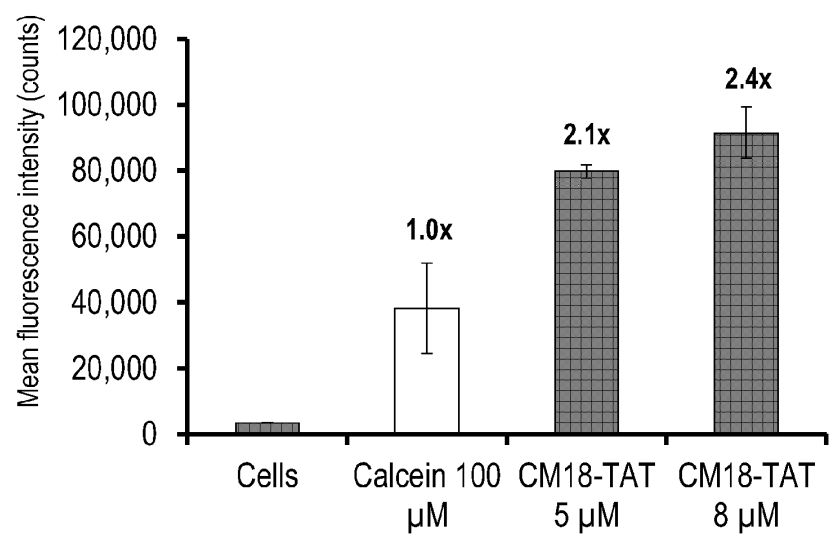


Fig. 5

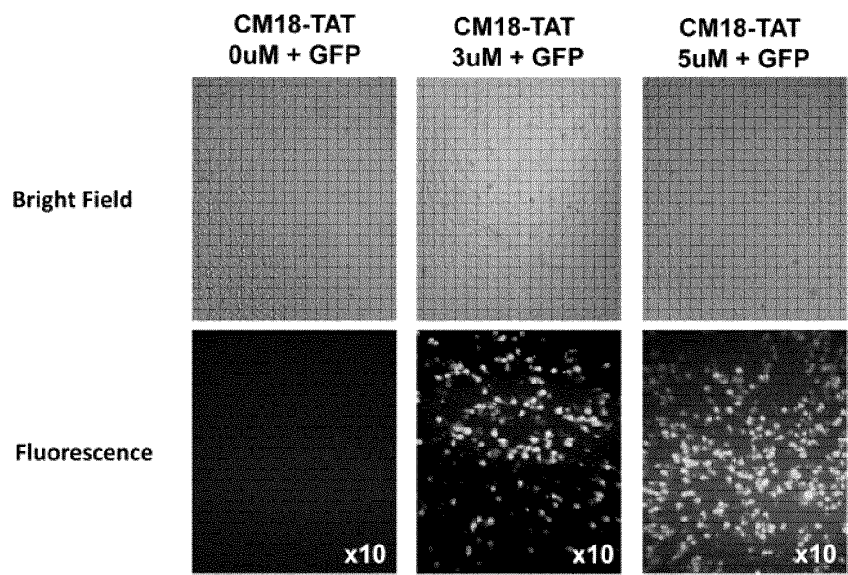


Fig. 6A

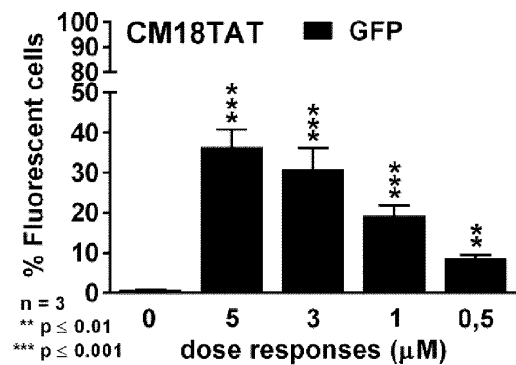


Fig. 6B

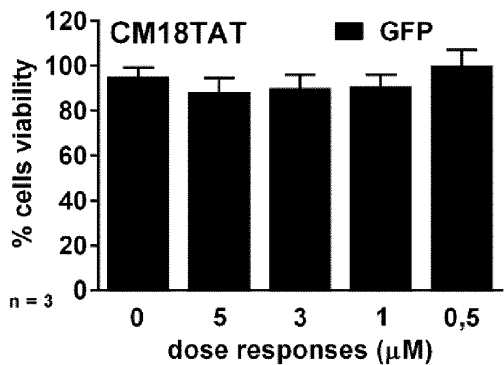


Fig. 7A

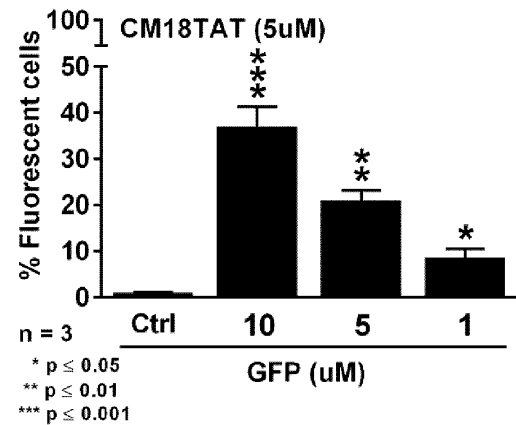


Fig. 7B

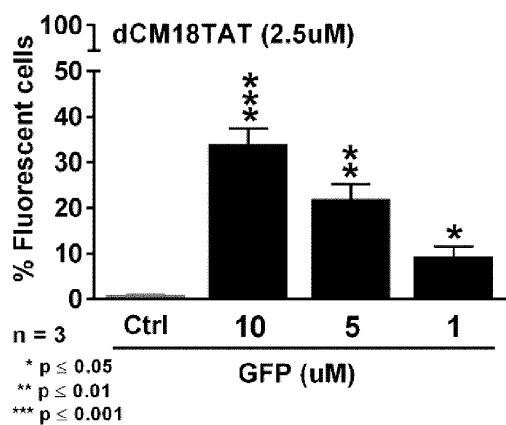


Fig. 8

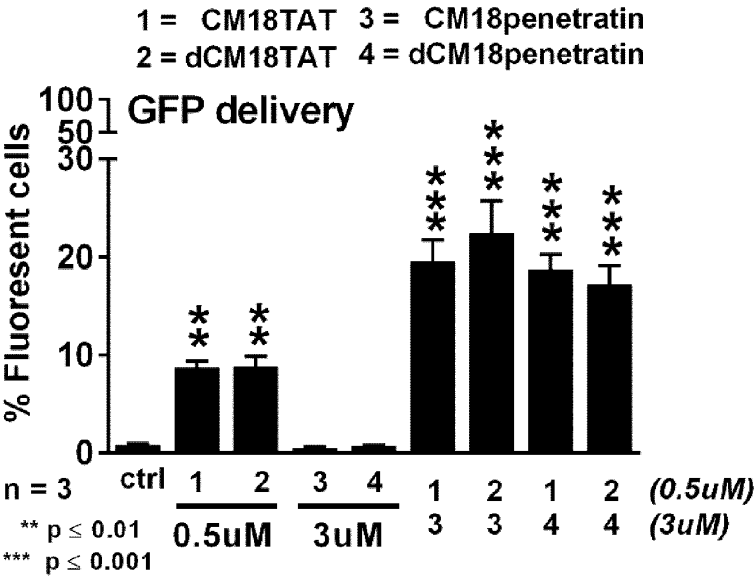


Fig. 9

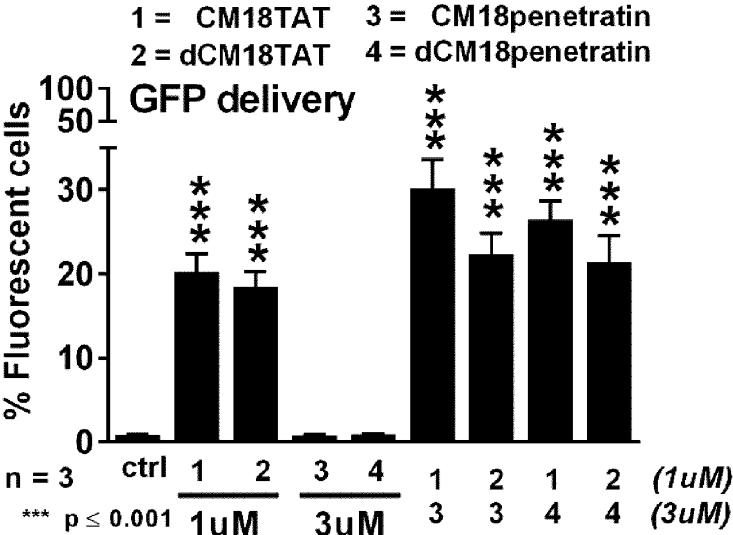


Fig. 10

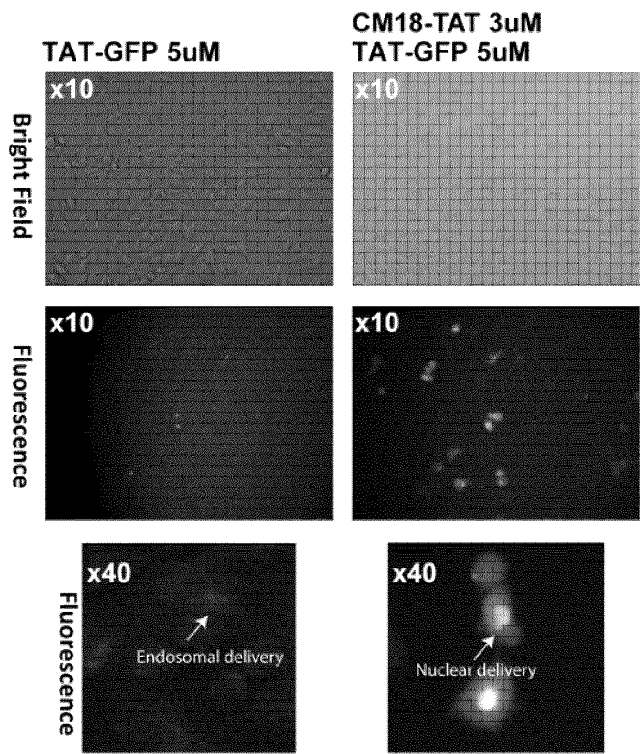


Fig. 11A

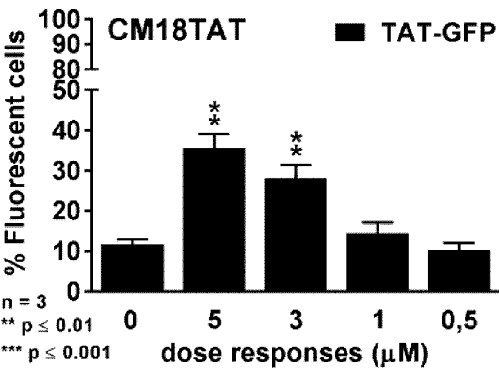


Fig. 11B

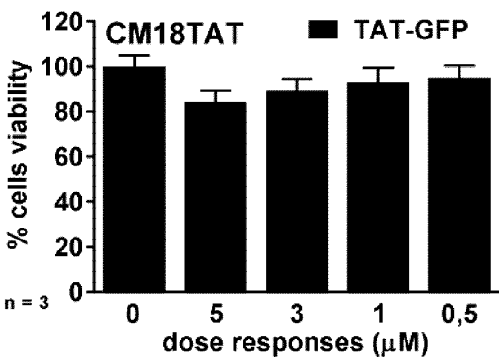


Fig. 12

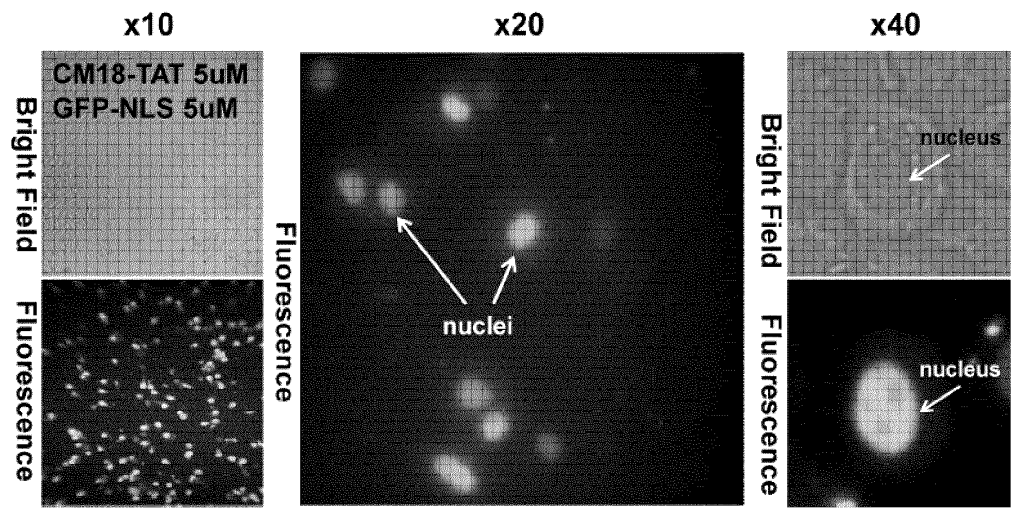


Fig. 13A

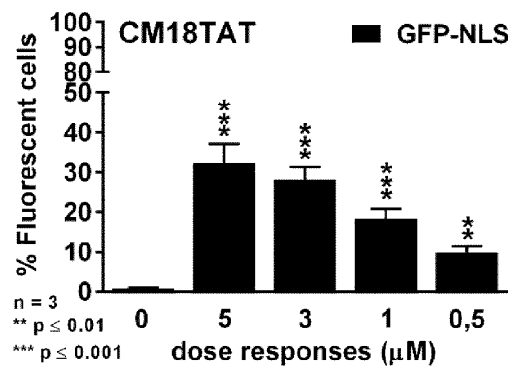


Fig. 13B

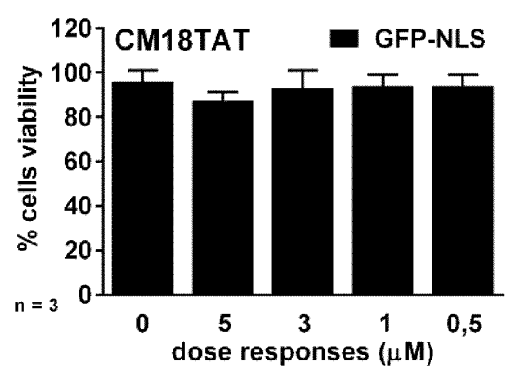


Fig. 14

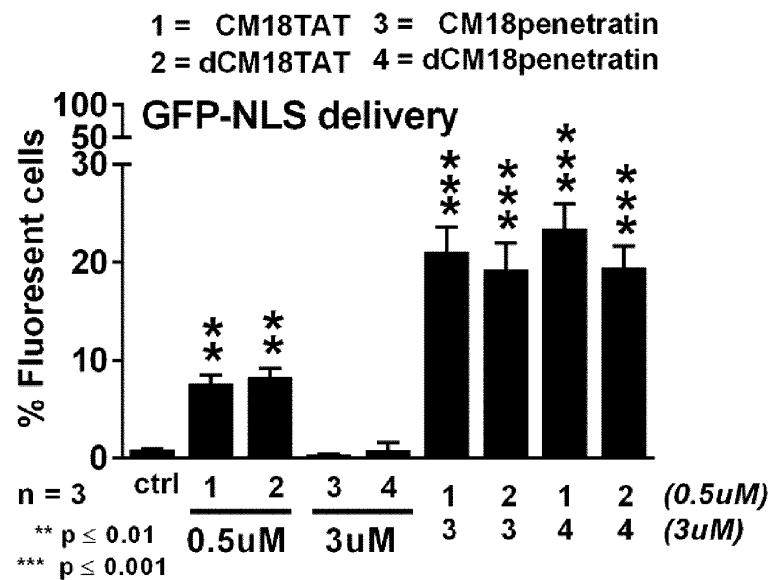


Fig. 15

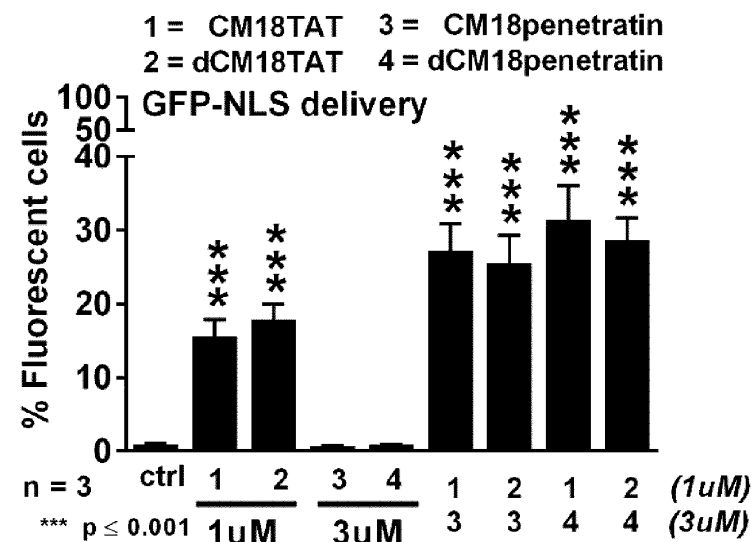


Fig. 16

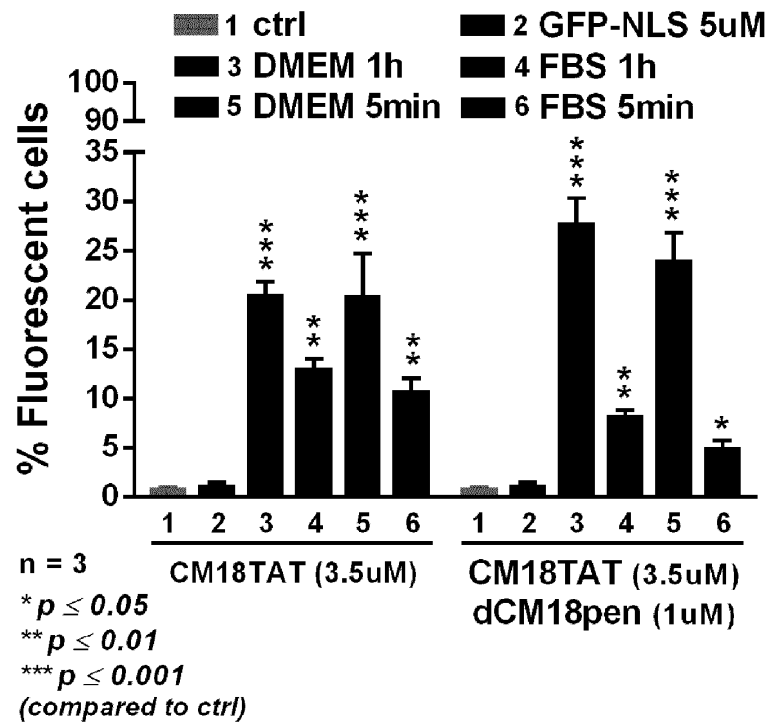


Fig. 17A

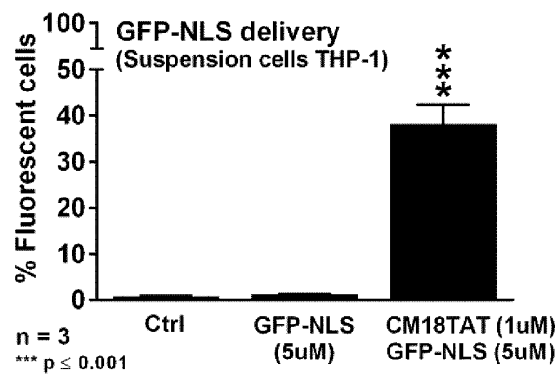


Fig. 17B

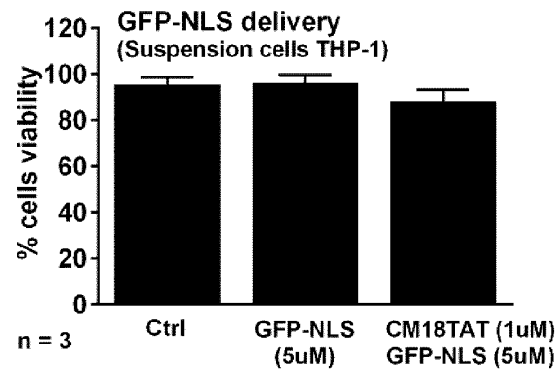


Fig. 18

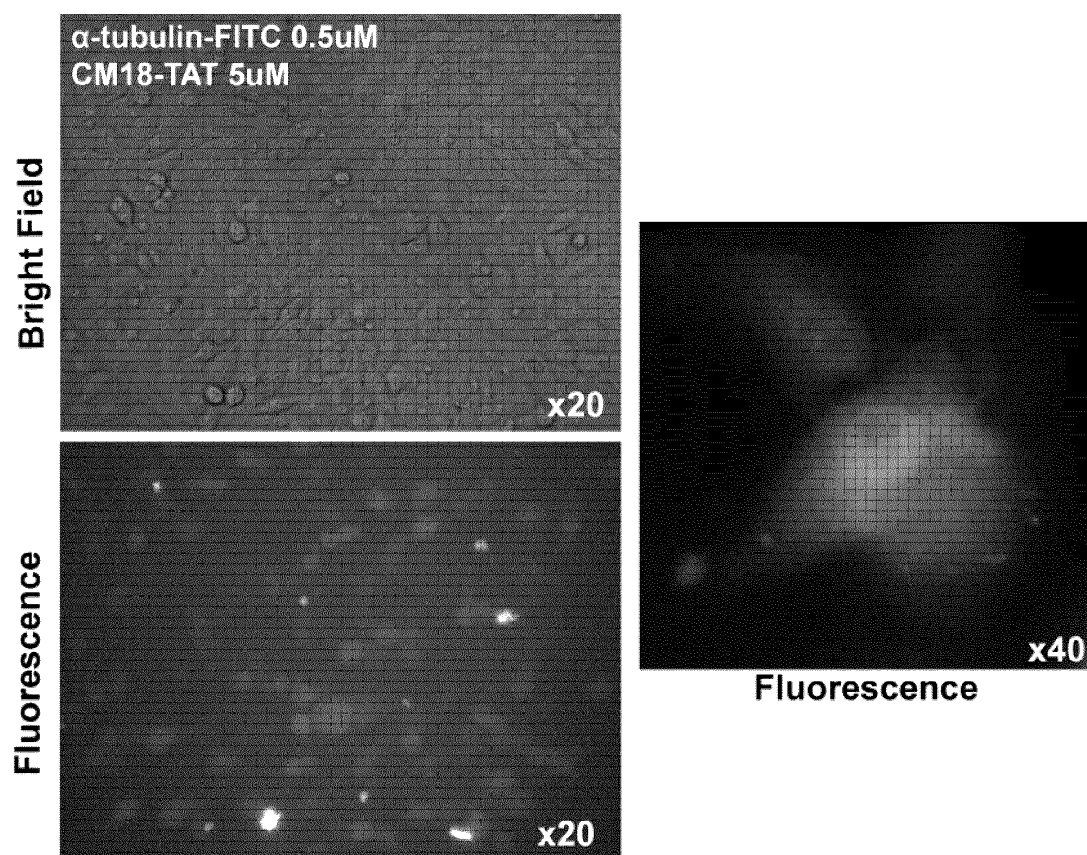


Fig. 19A

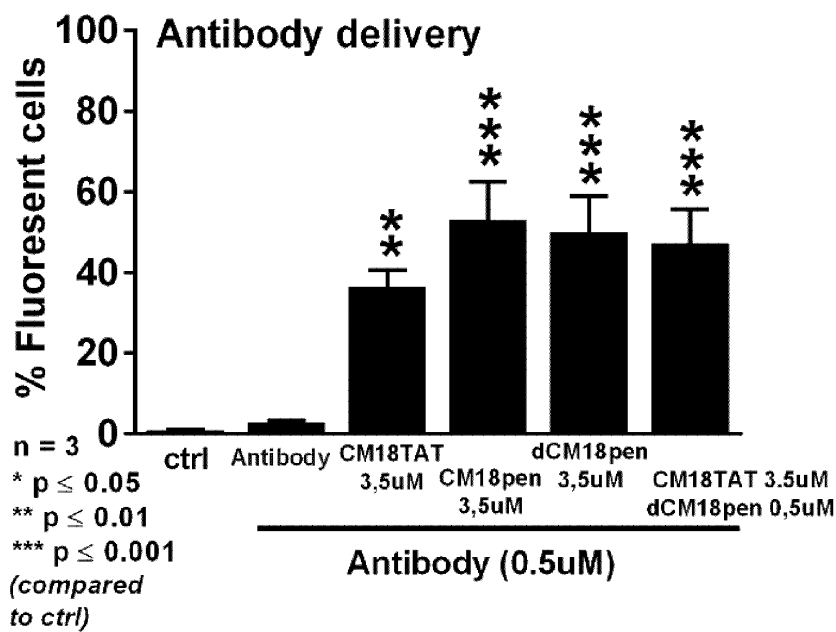


Fig. 19B

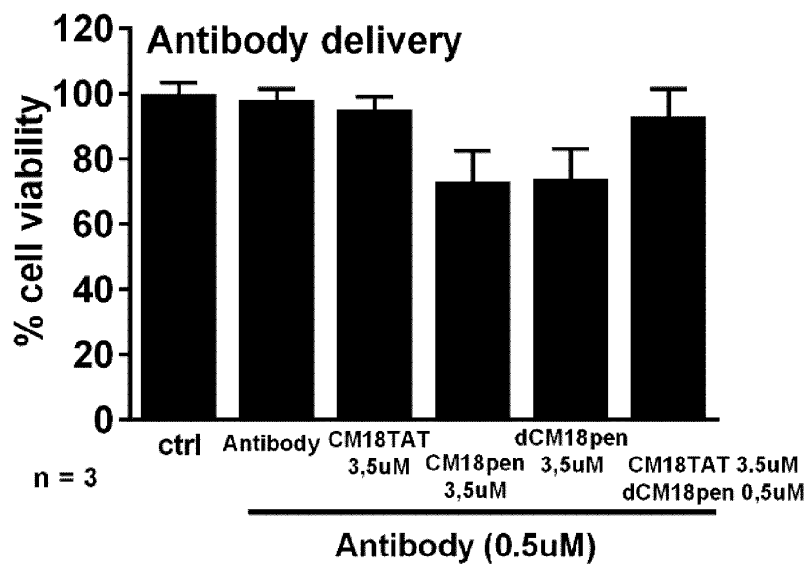


Fig. 20

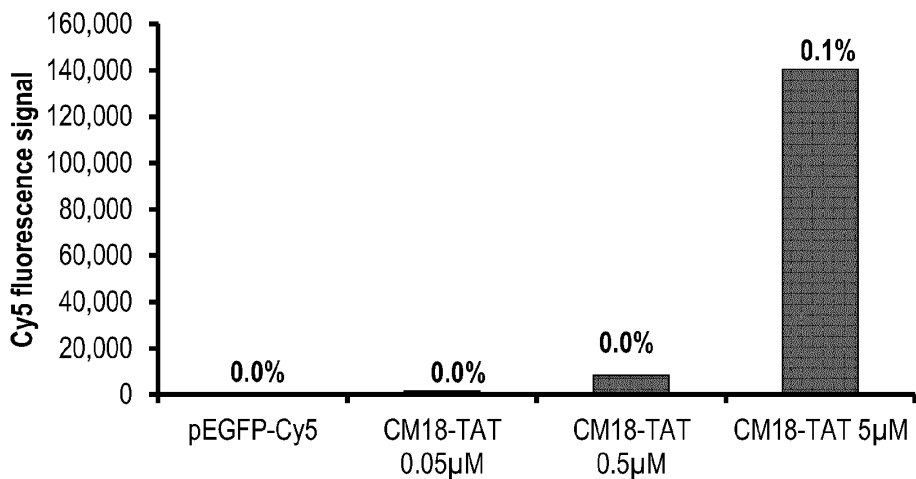


Fig. 21A

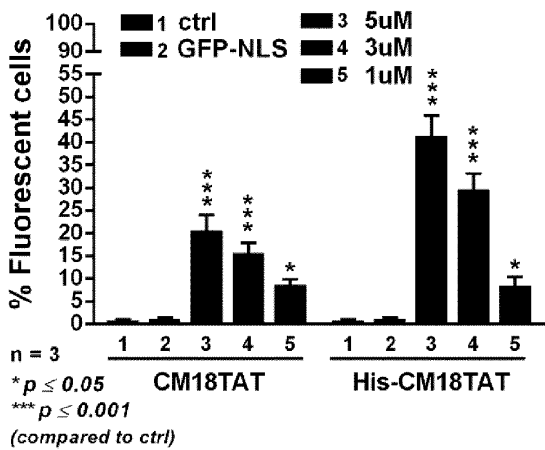


Fig. 21B

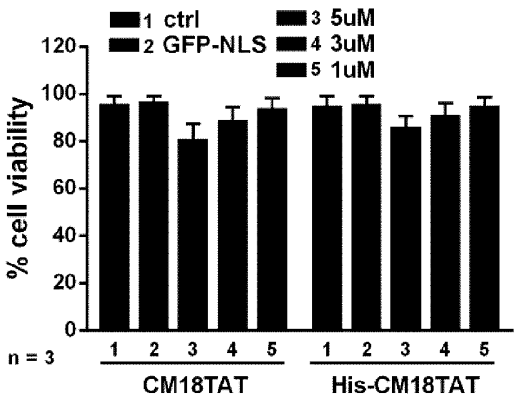


Fig. 22A

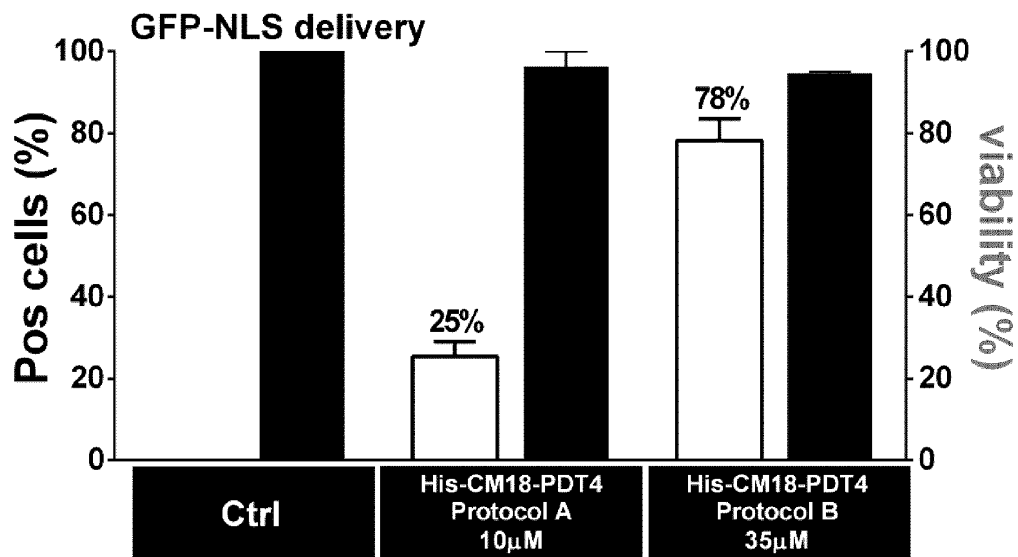


Fig. 22B

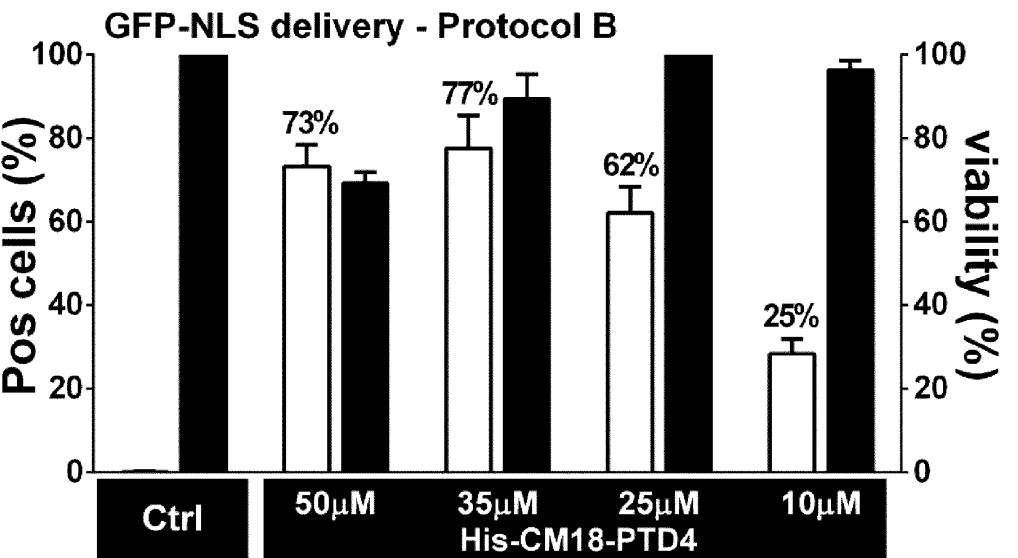


Fig. 23A

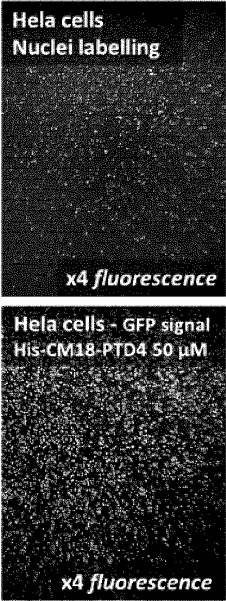


Fig. 23B

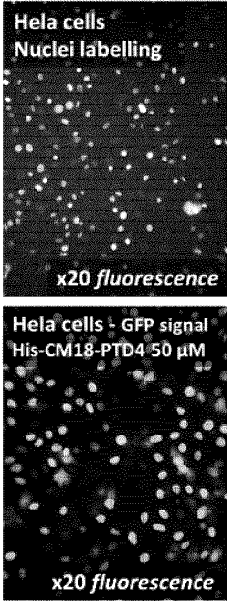


Fig. 23C

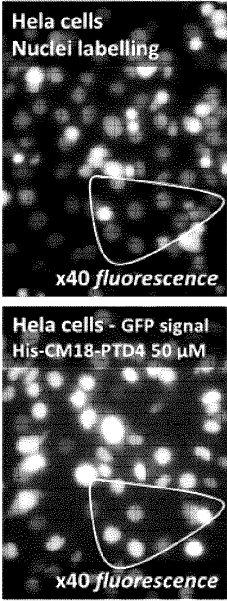


Fig. 23D

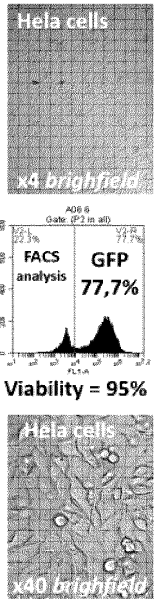


Fig. 24A

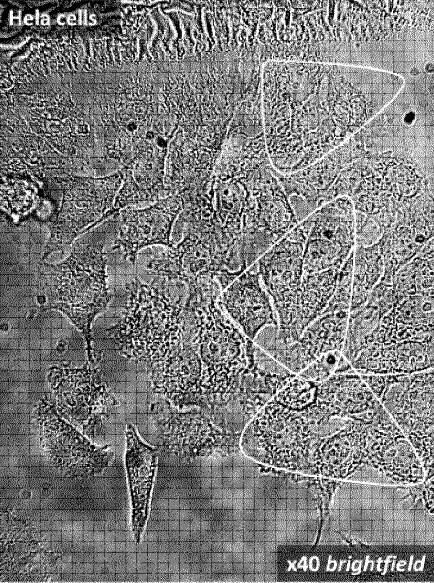


Fig. 24B

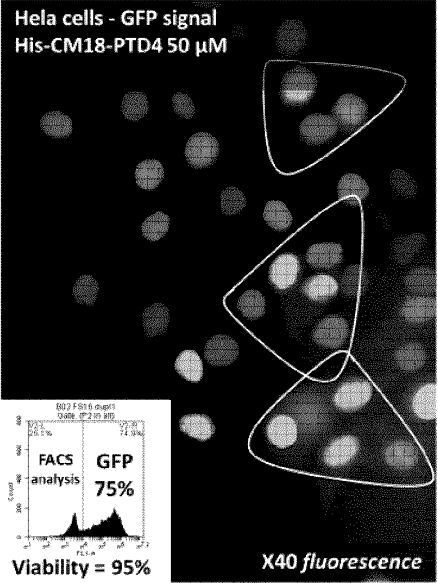


Fig. 24C

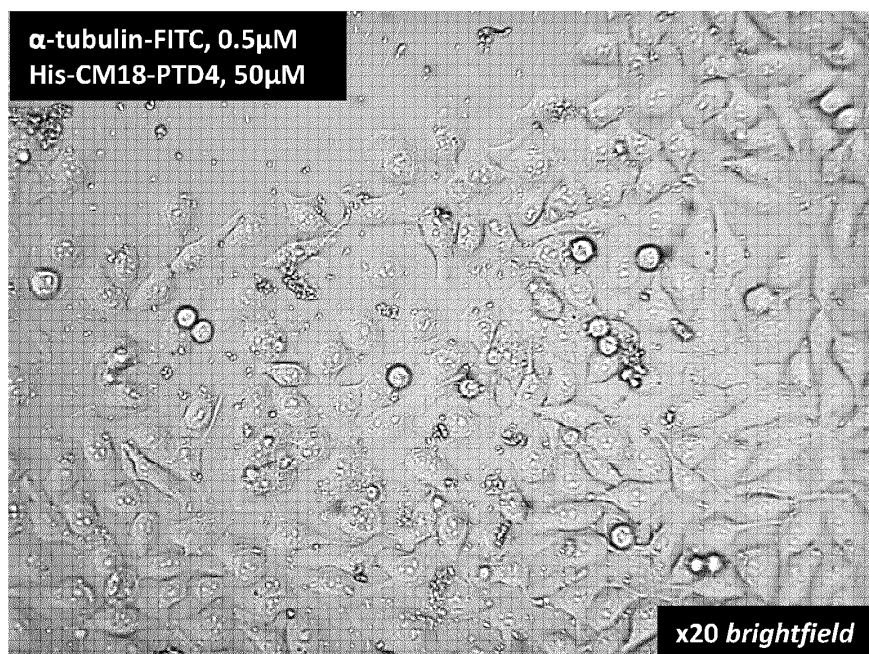


Fig. 24D

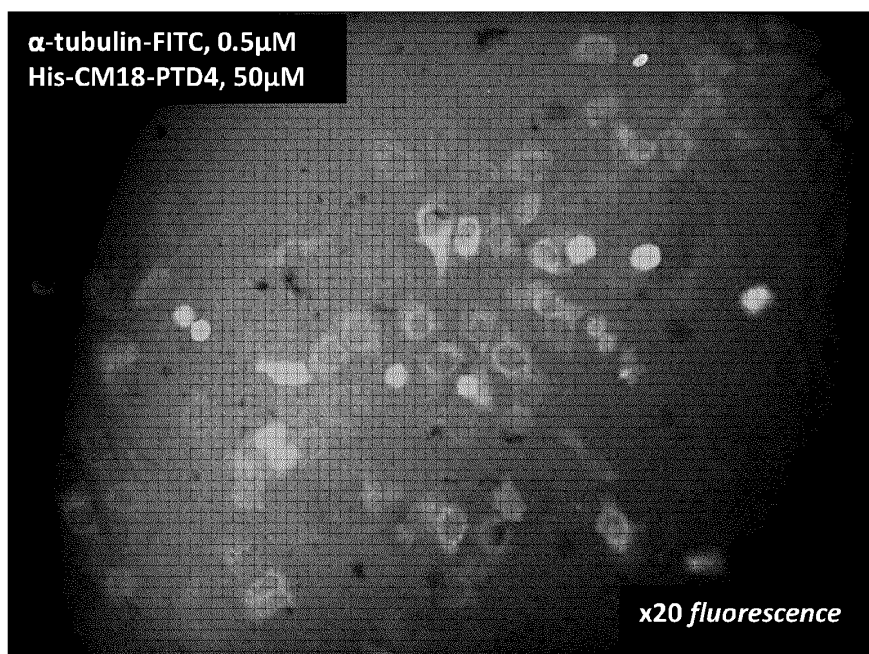


Fig. 25A

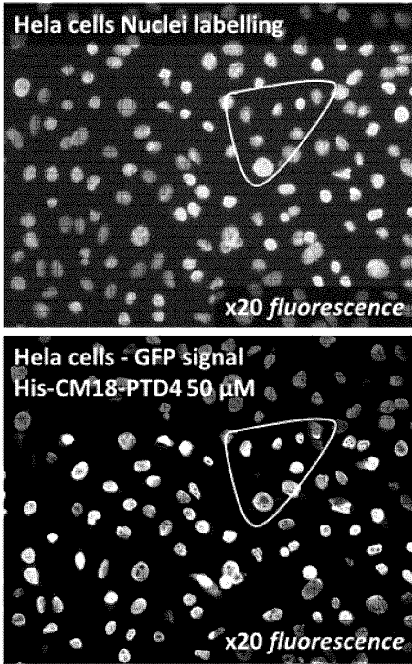


Fig. 25B

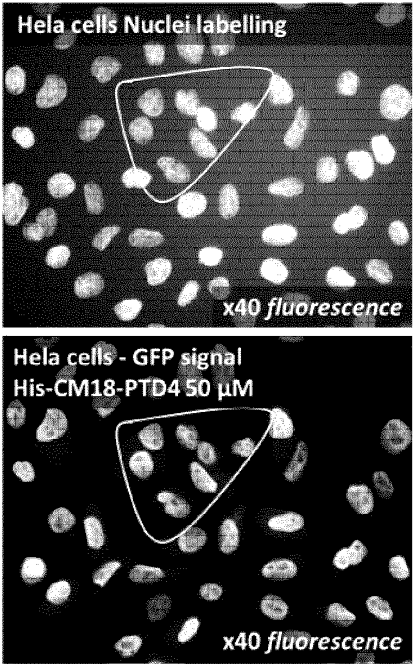


Fig. 26A

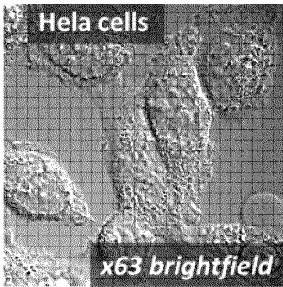


Fig. 26C

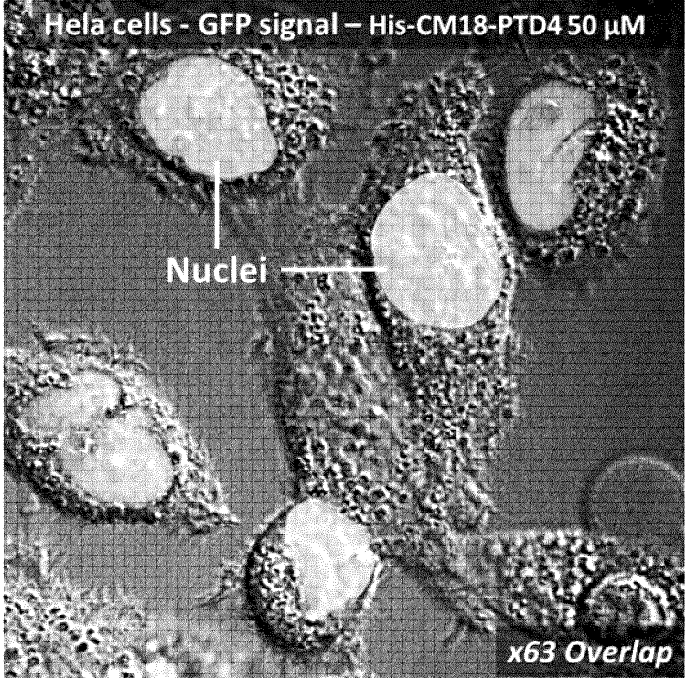


Fig. 26B

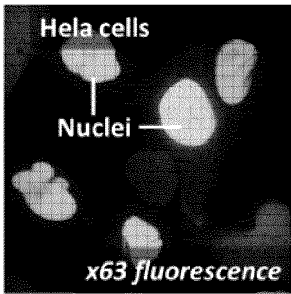


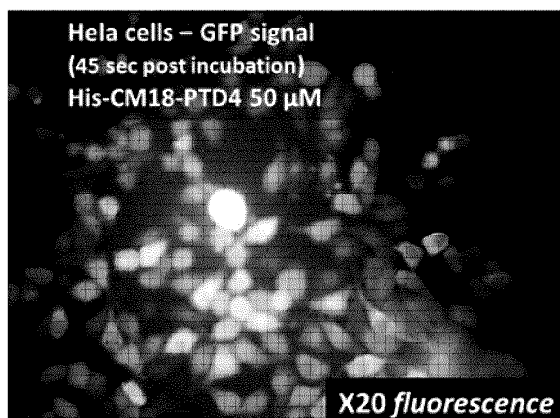
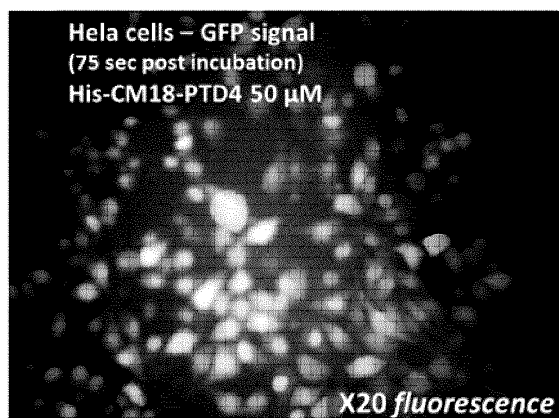
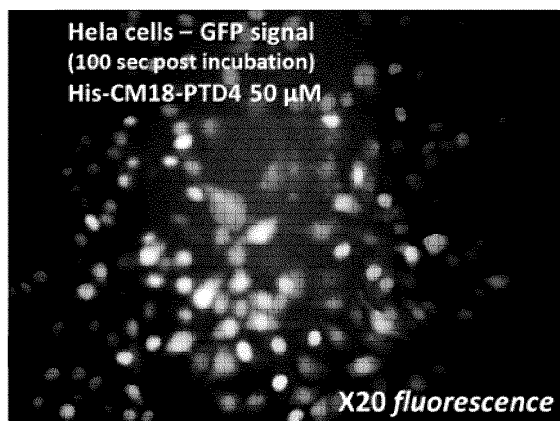
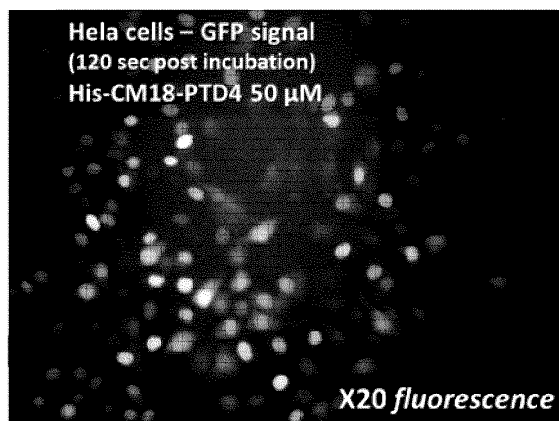
Fig. 27A**Fig. 27B****Fig. 27C****Fig. 27D**

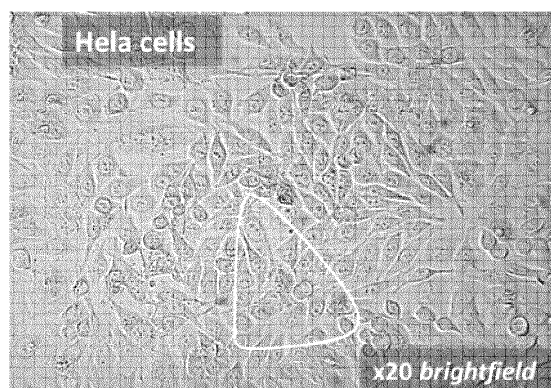
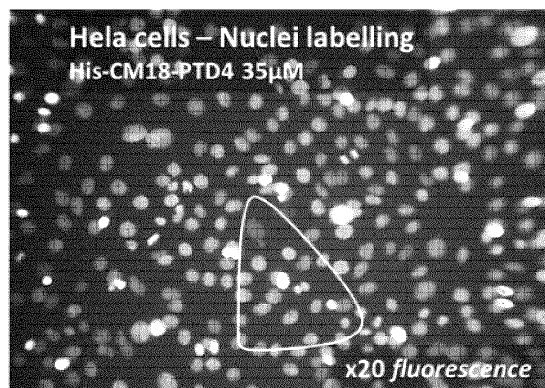
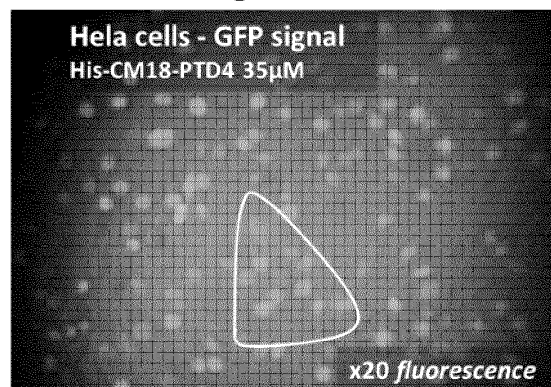
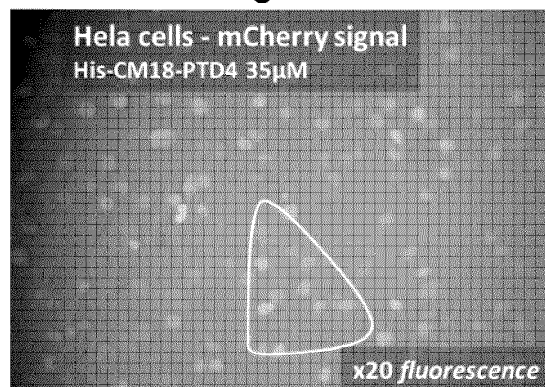
Fig. 28A**Fig. 28B****Fig. 28C****Fig. 28D**

Fig. 29A

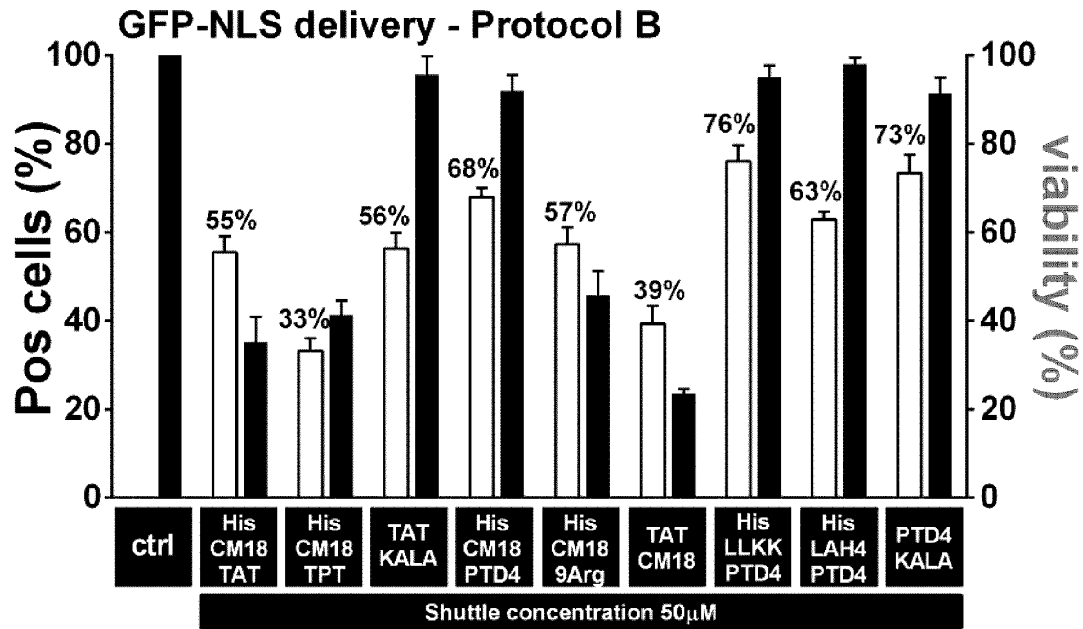


Fig. 29B

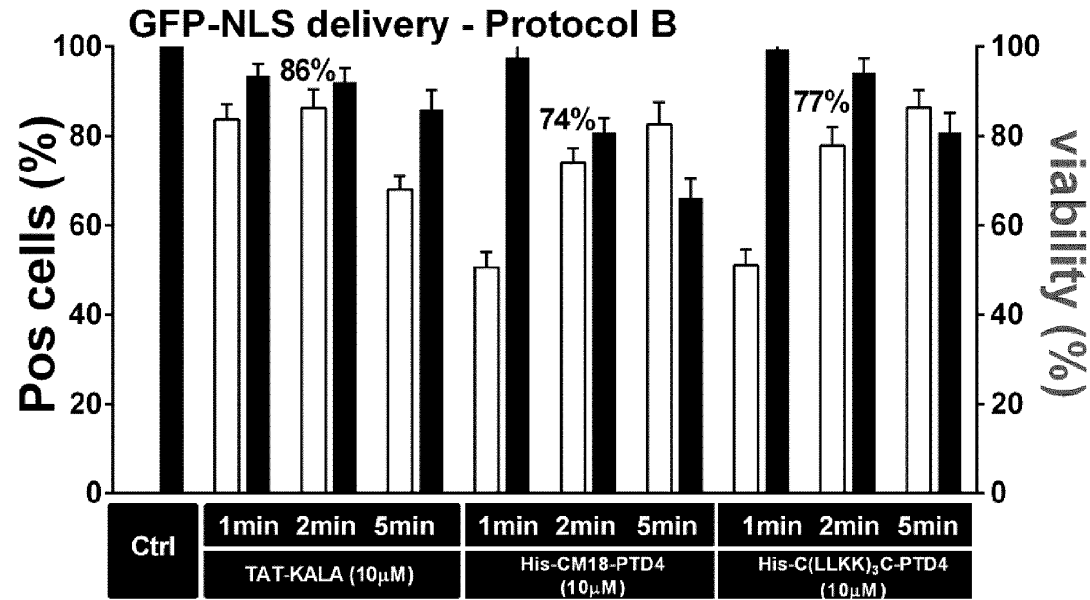


Fig. 29C

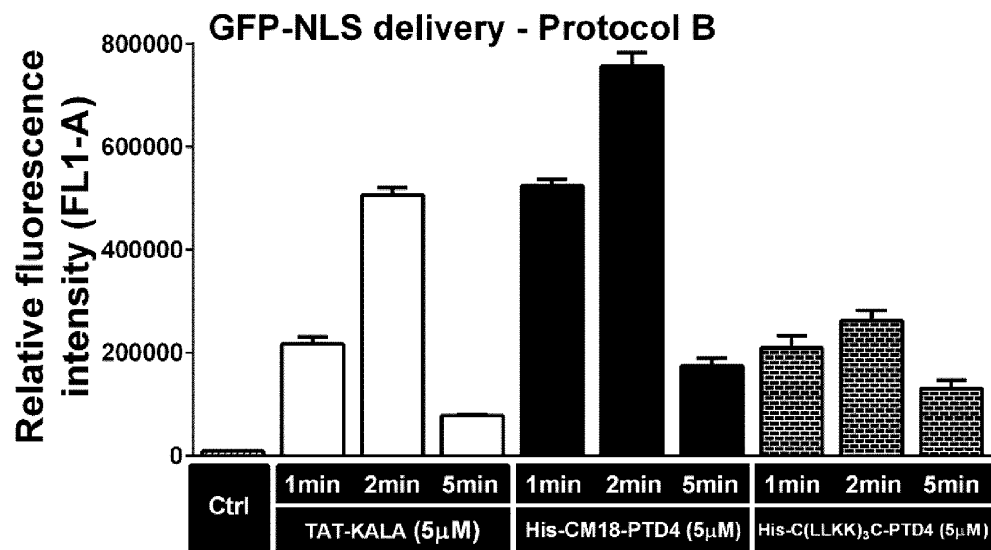


Fig. 29D

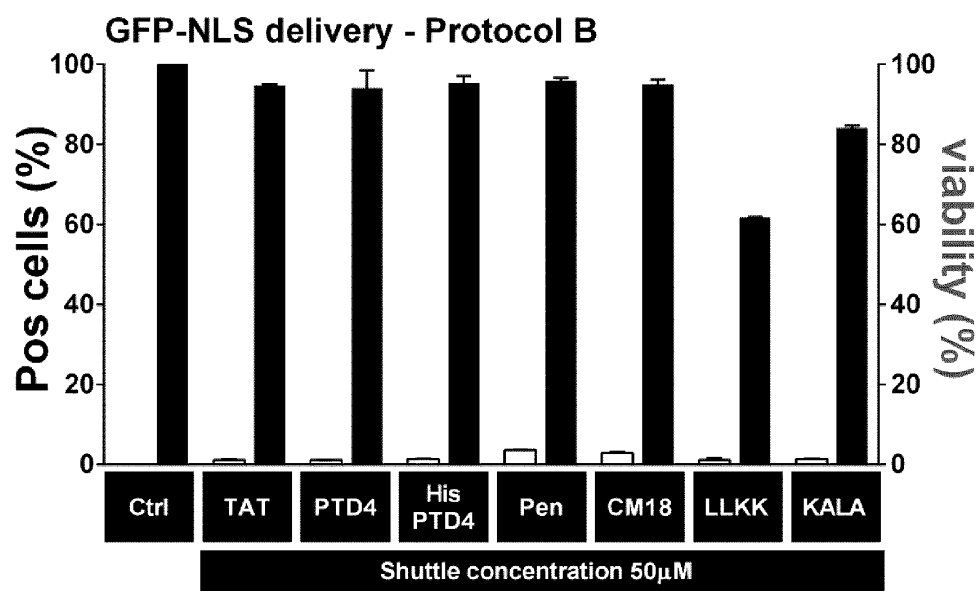


Fig. 29E

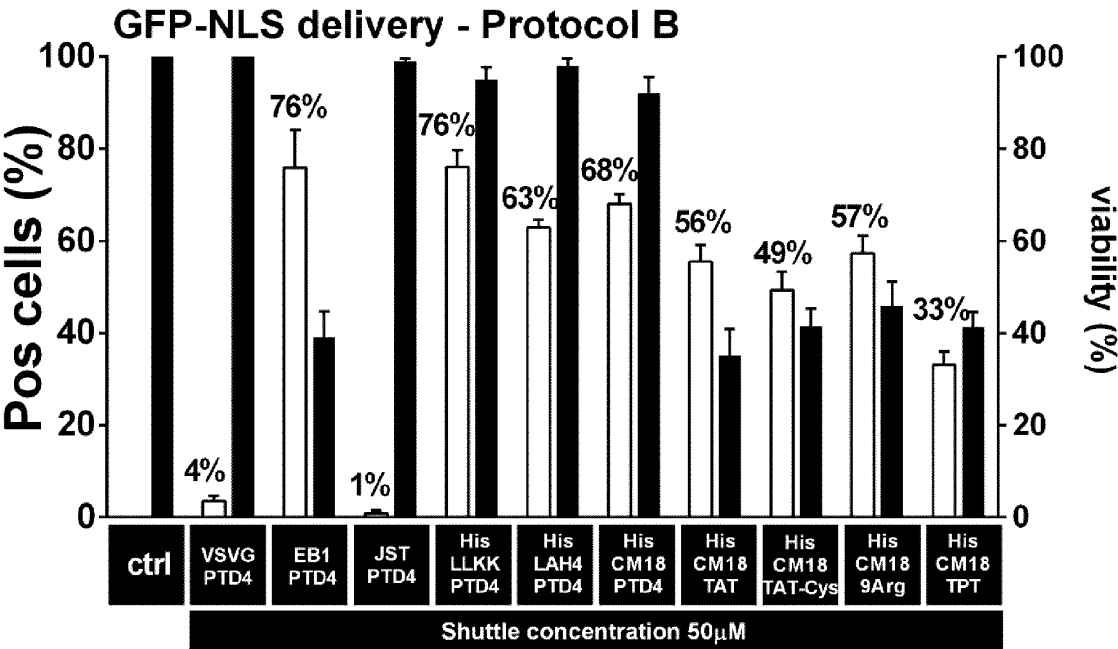


Fig. 29F

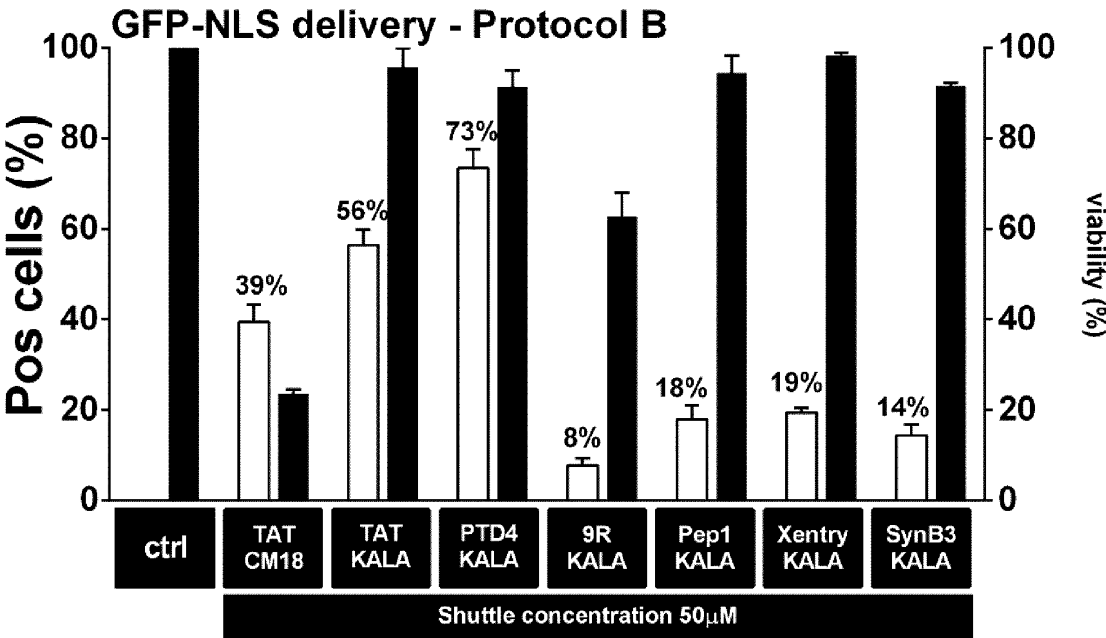


Fig. 29G

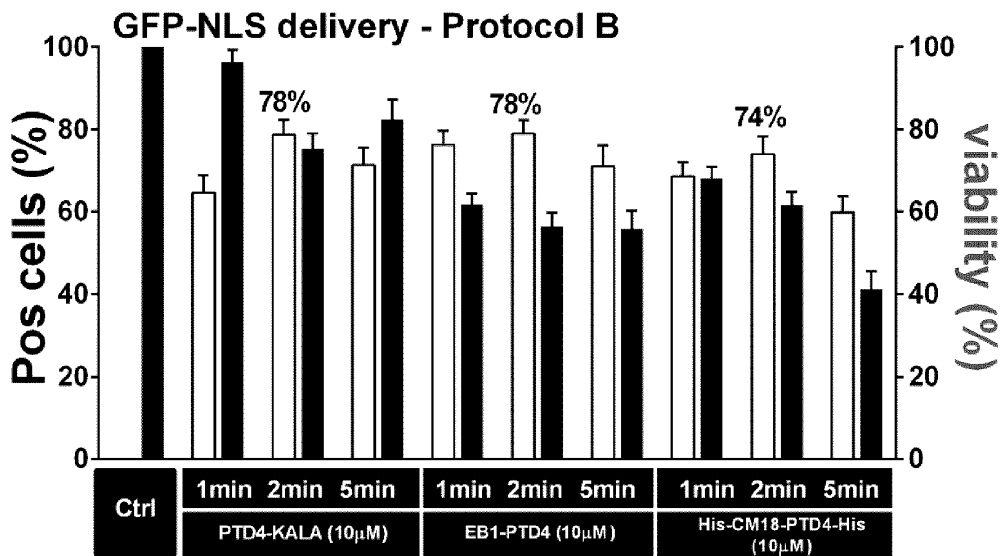
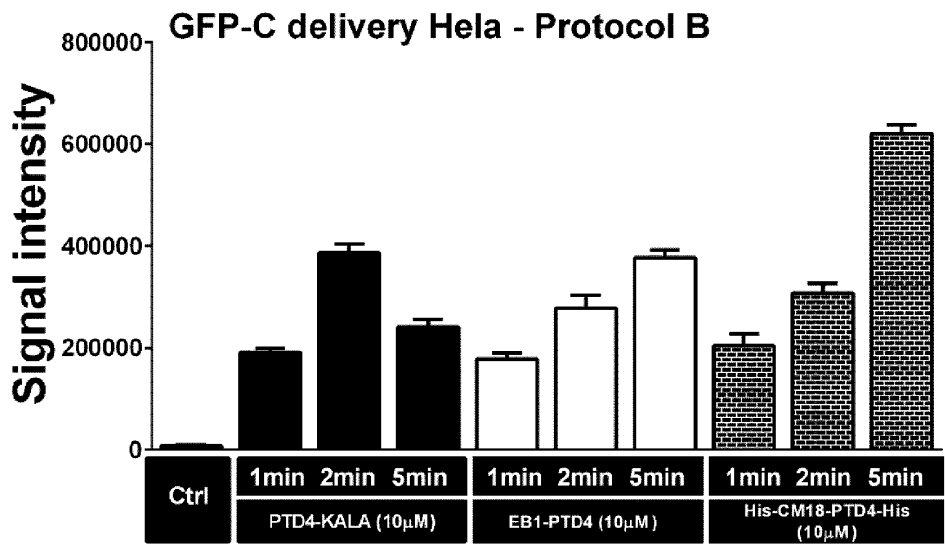


Fig. 29H



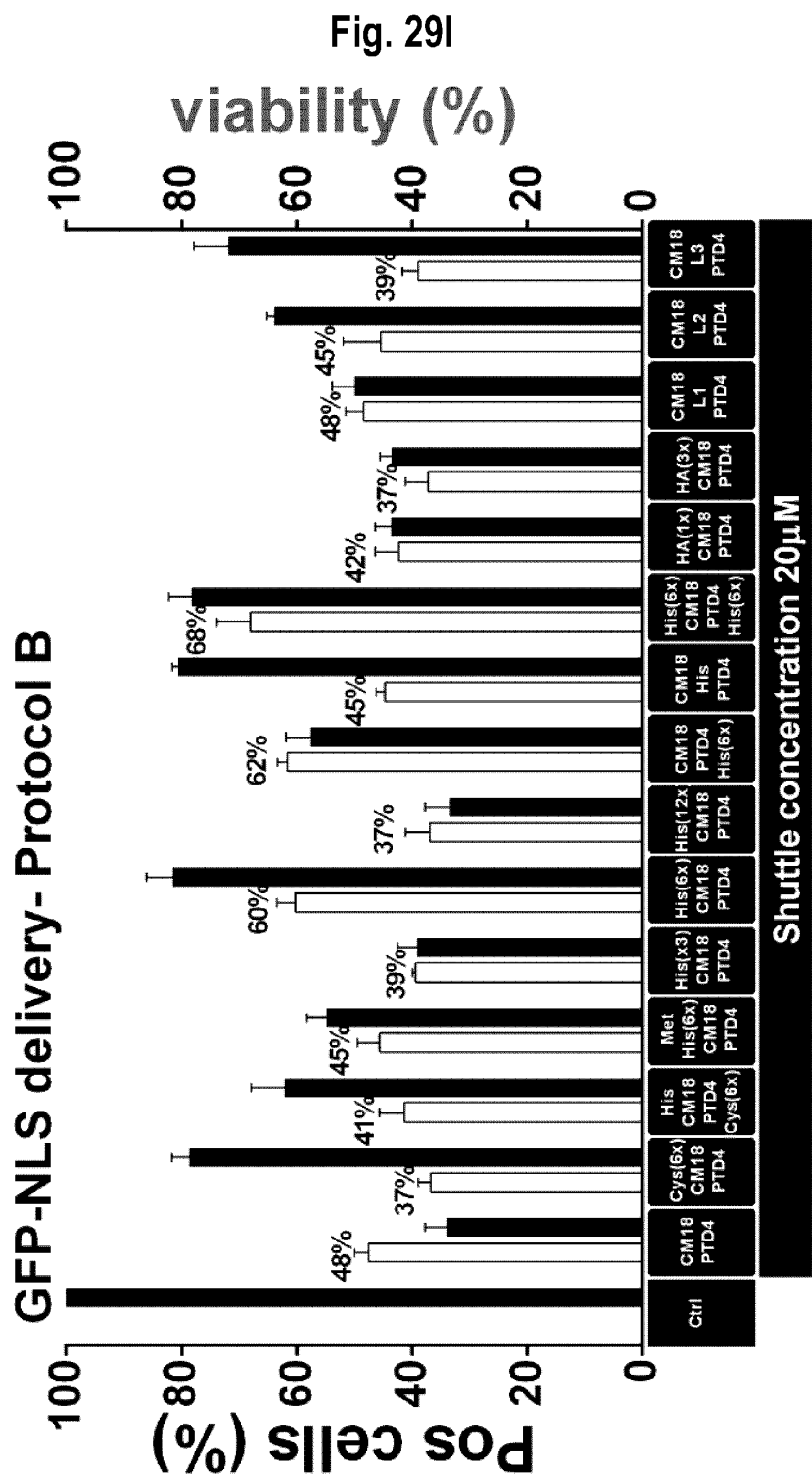


Fig. 30A

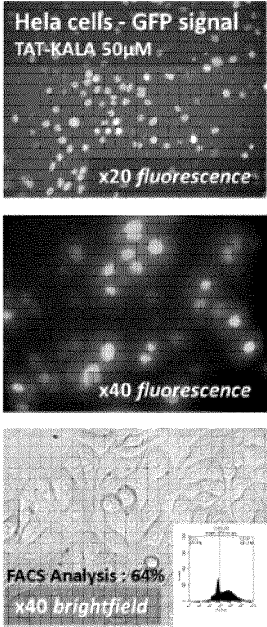


Fig. 30B

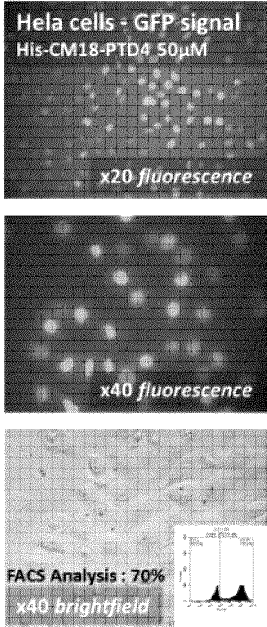


Fig. 30C

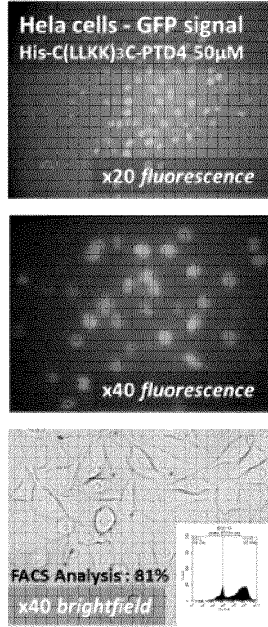


Fig. 30D

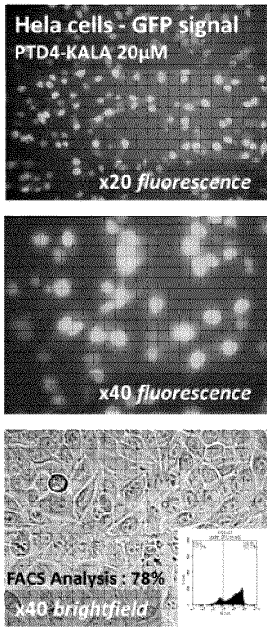


Fig. 30E

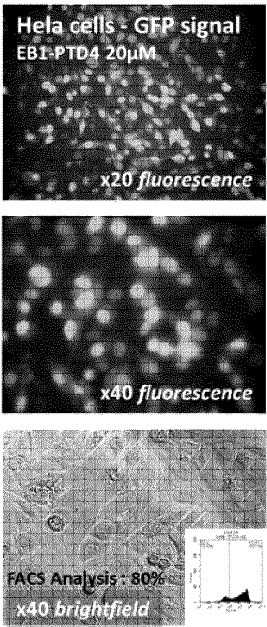


Fig. 30F

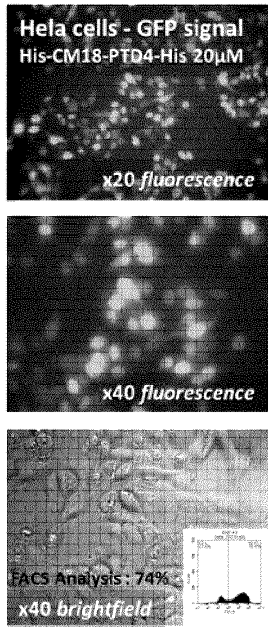


Fig. 31

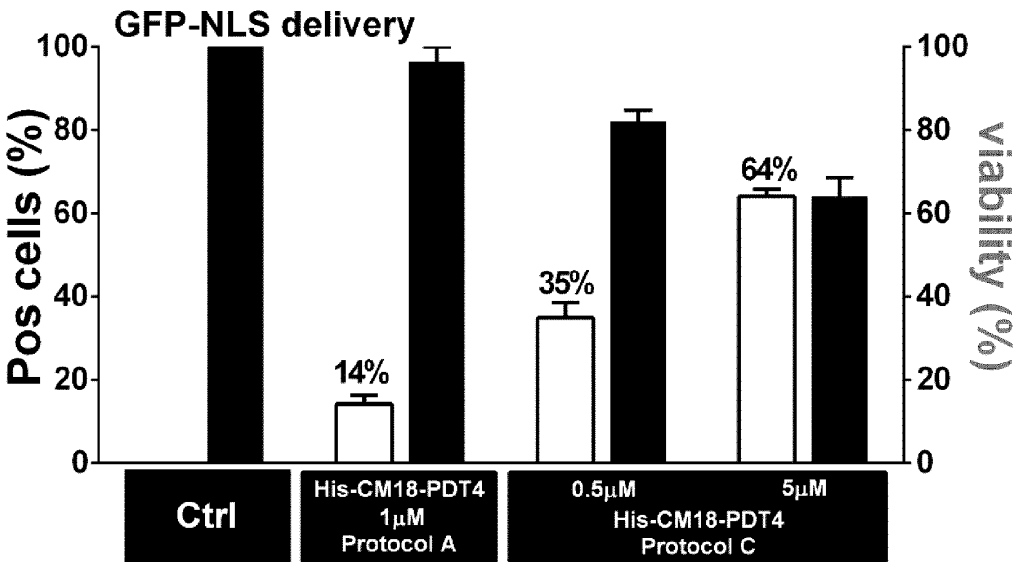


Fig. 32A

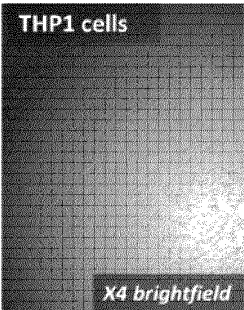
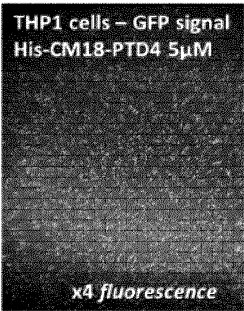


Fig. 32B

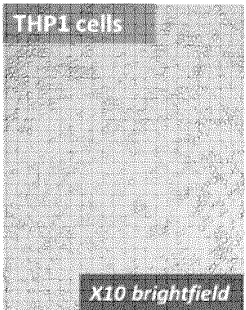
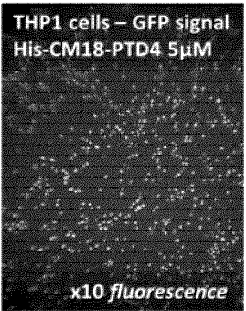


Fig. 32C

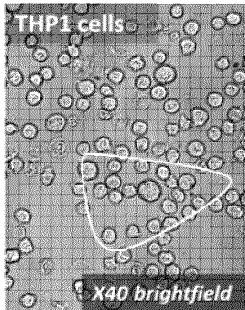
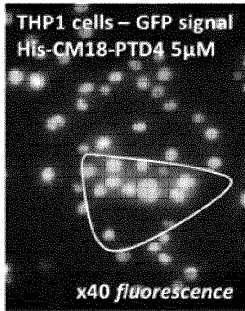


Fig. 32D

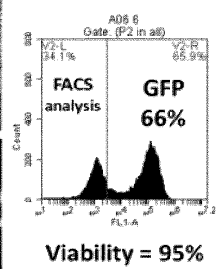


Fig. 33A

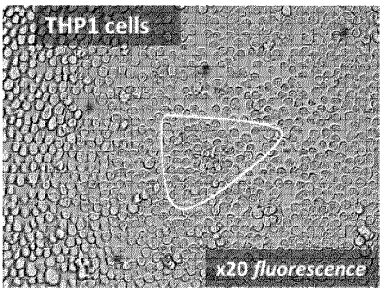


Fig. 33C

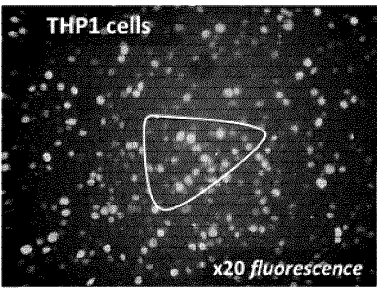


Fig. 33B

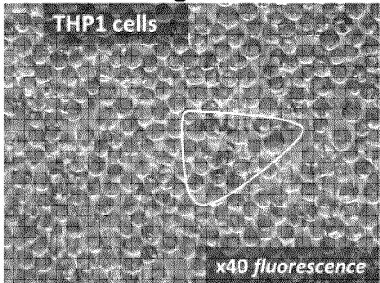


Fig. 33D

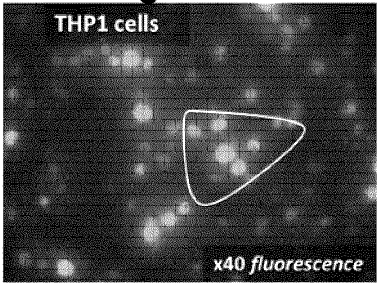
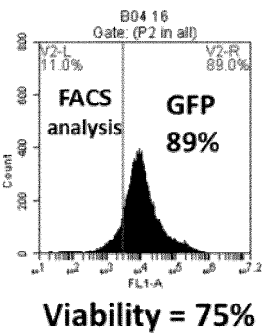


Fig. 34A

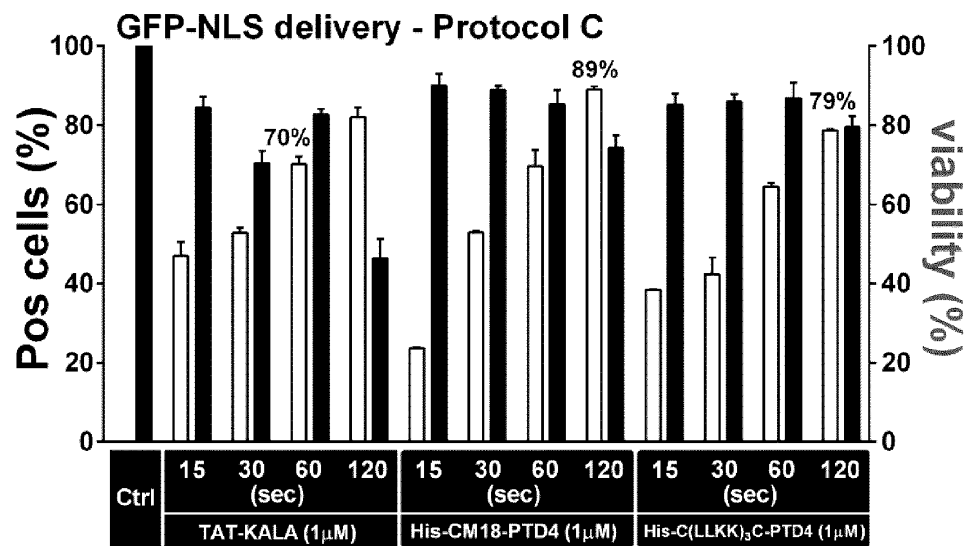


Fig. 34B

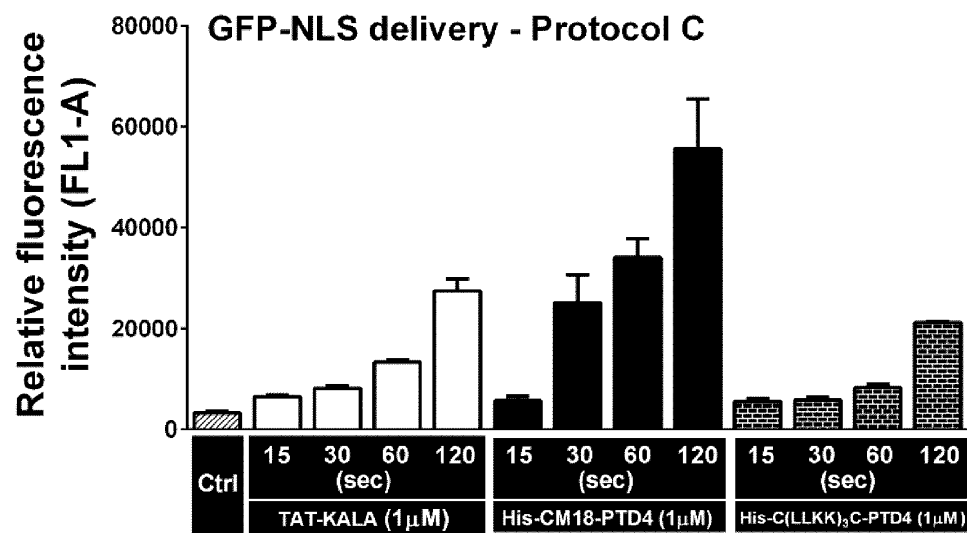


Fig. 35A

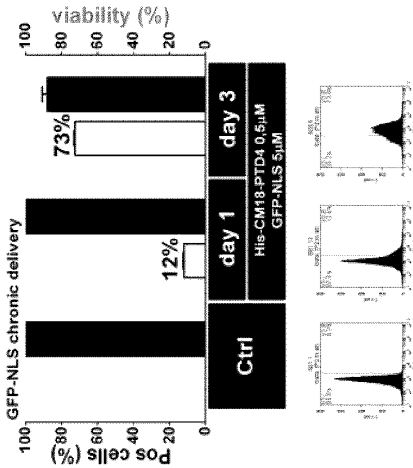


Fig. 35B

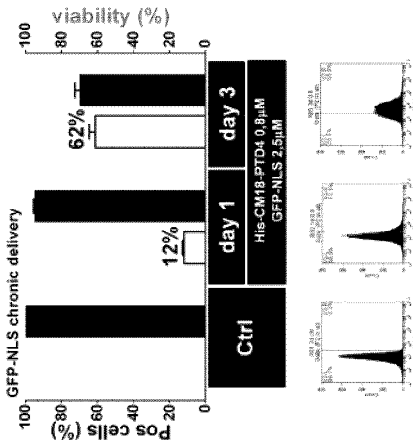


Fig. 35C

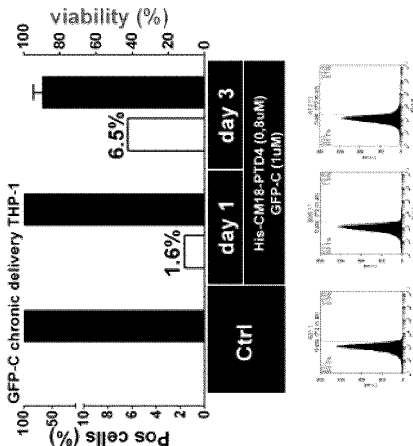


Fig. 35D

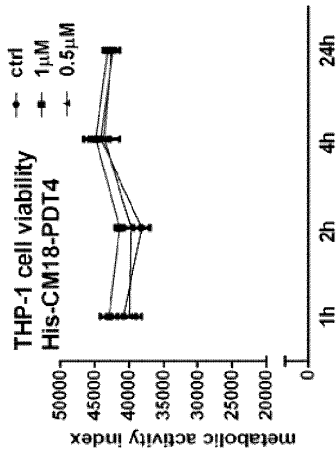


Fig. 35E

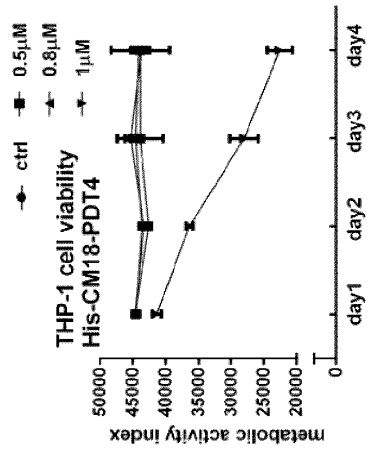


Fig. 35F

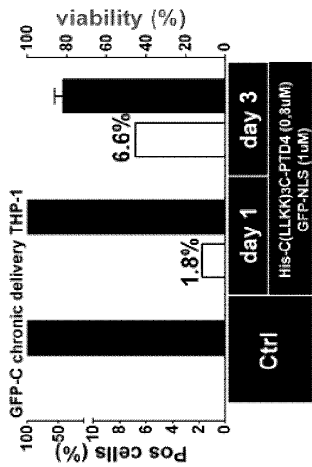


Fig. 36

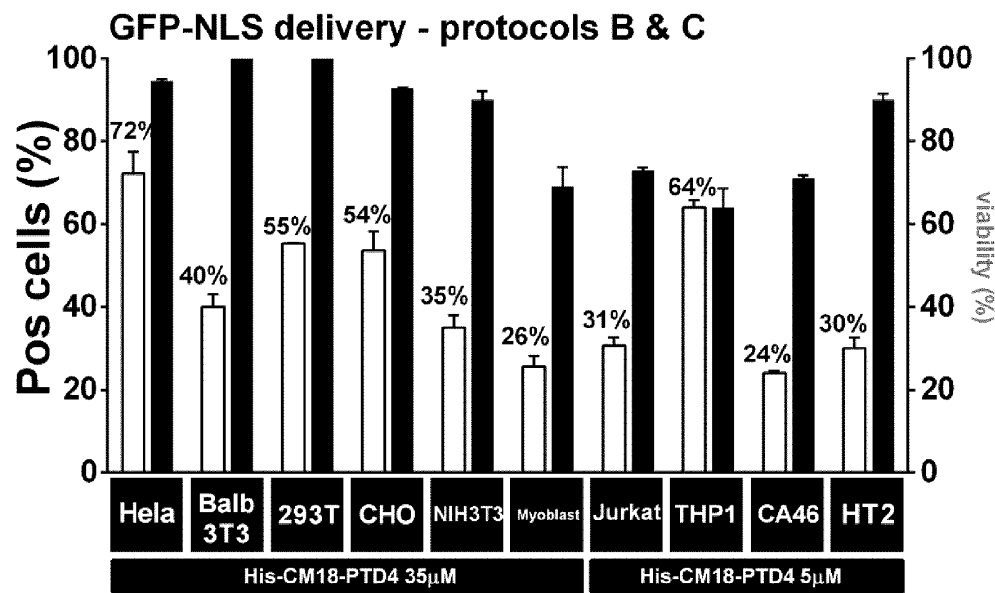


Fig. 37A

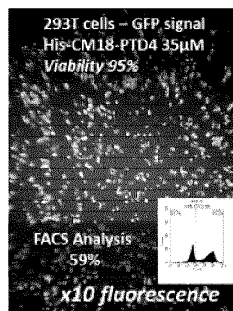


Fig. 37B

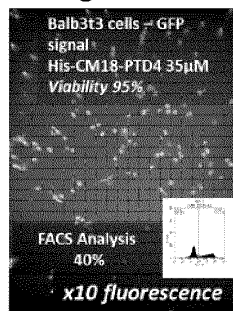


Fig. 37C

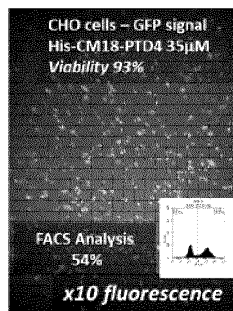


Fig. 37D

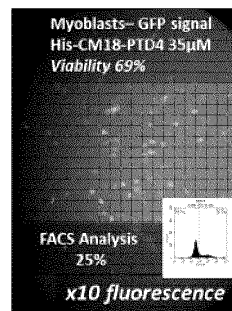


Fig. 37E

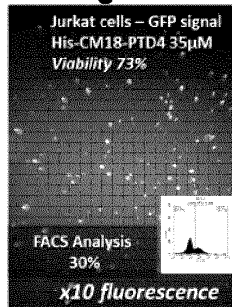


Fig. 37F

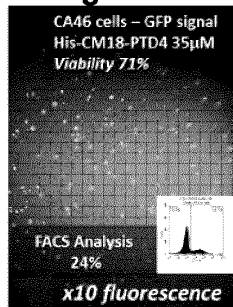


Fig. 37G

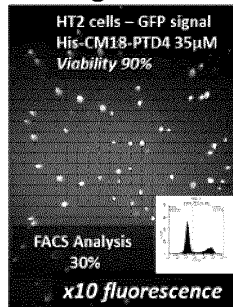


Fig. 37H

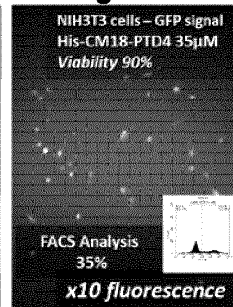


Fig. 38A

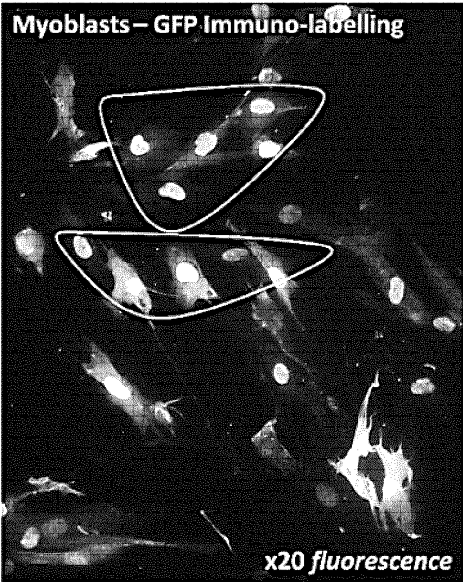


Fig. 38B

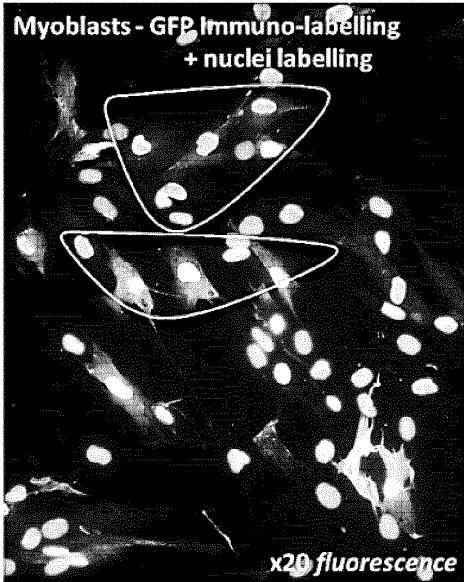


Fig. 39A

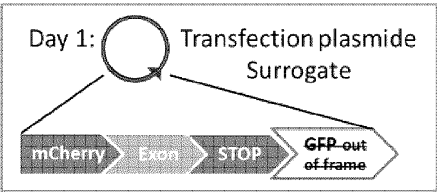


Fig. 39B

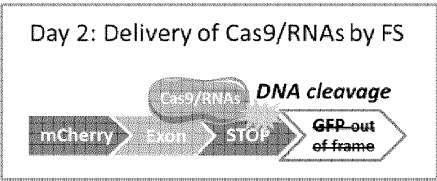


Fig. 39C

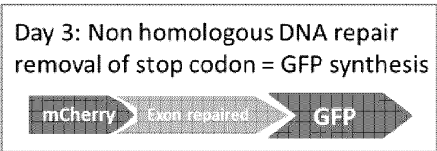


Fig. 39D

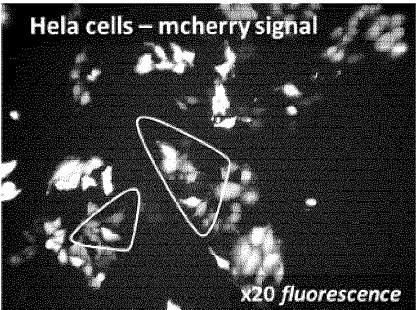
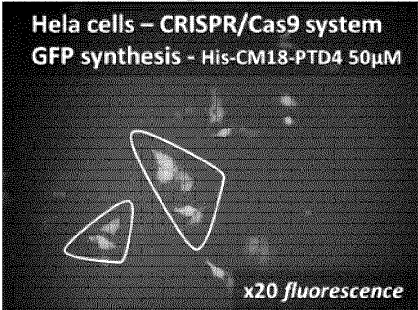


Fig. 39E



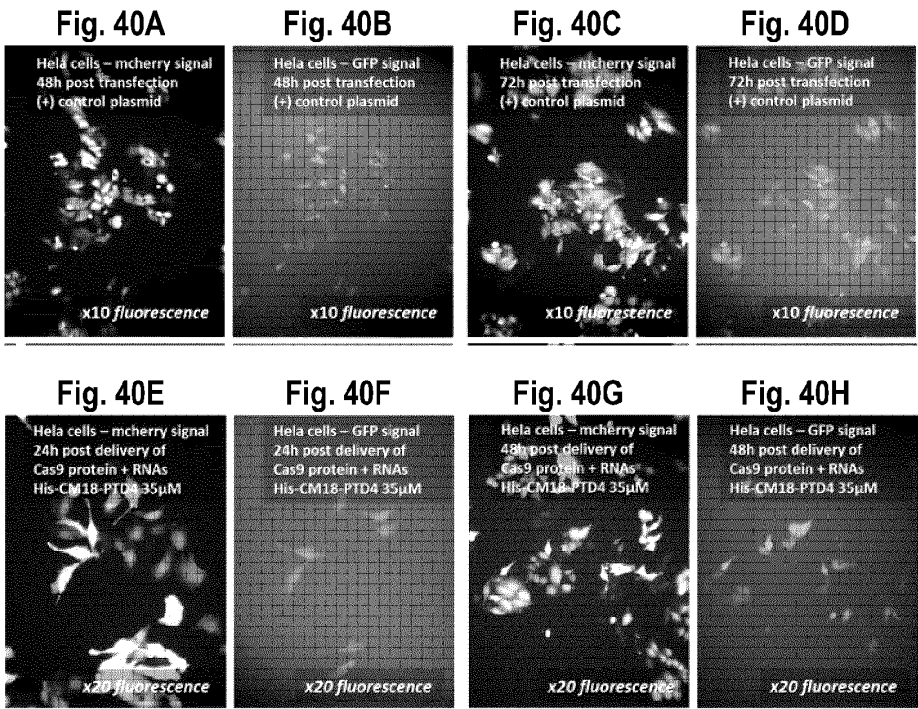
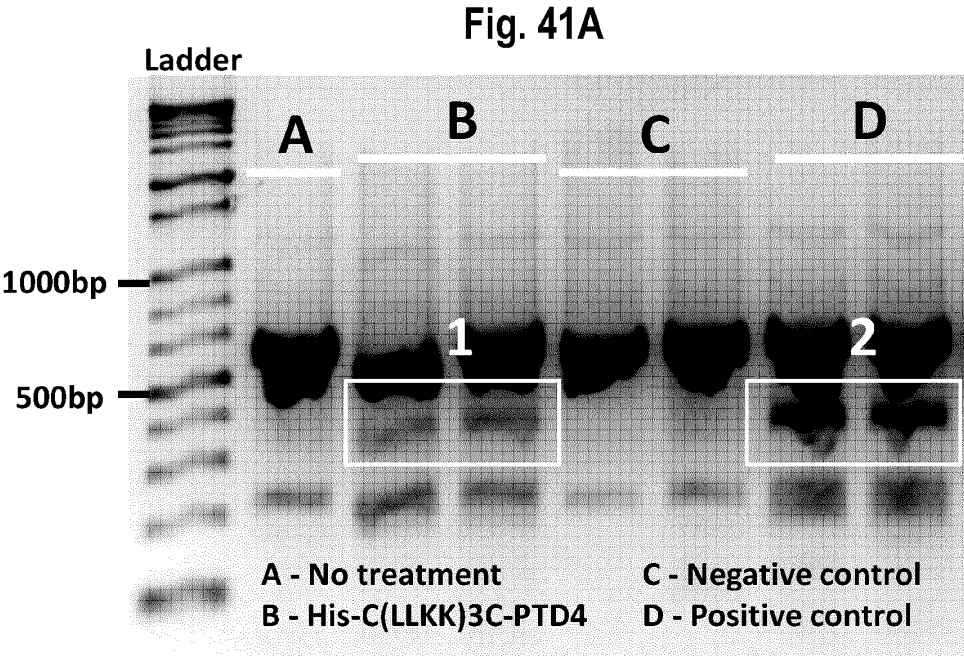


Fig. 41B

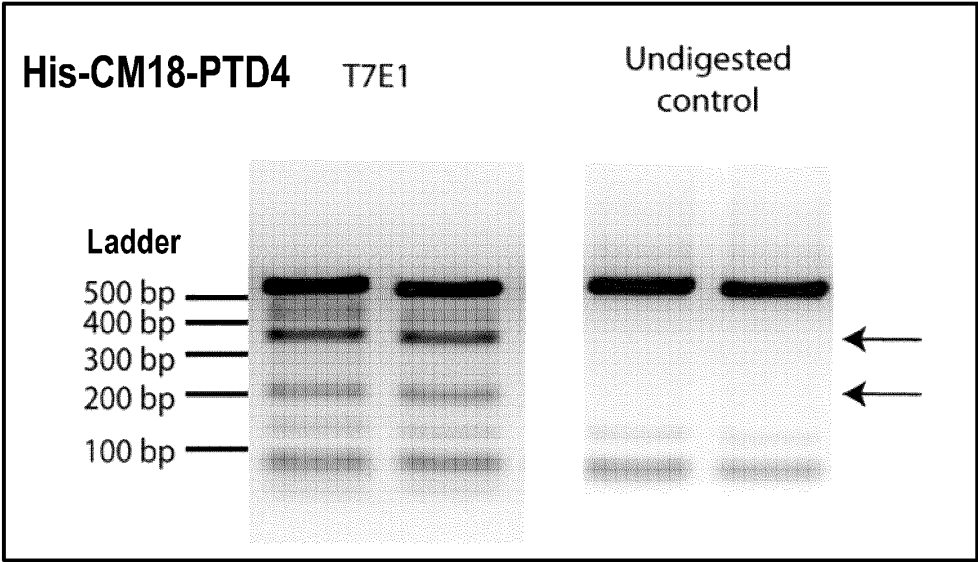


Fig. 41C

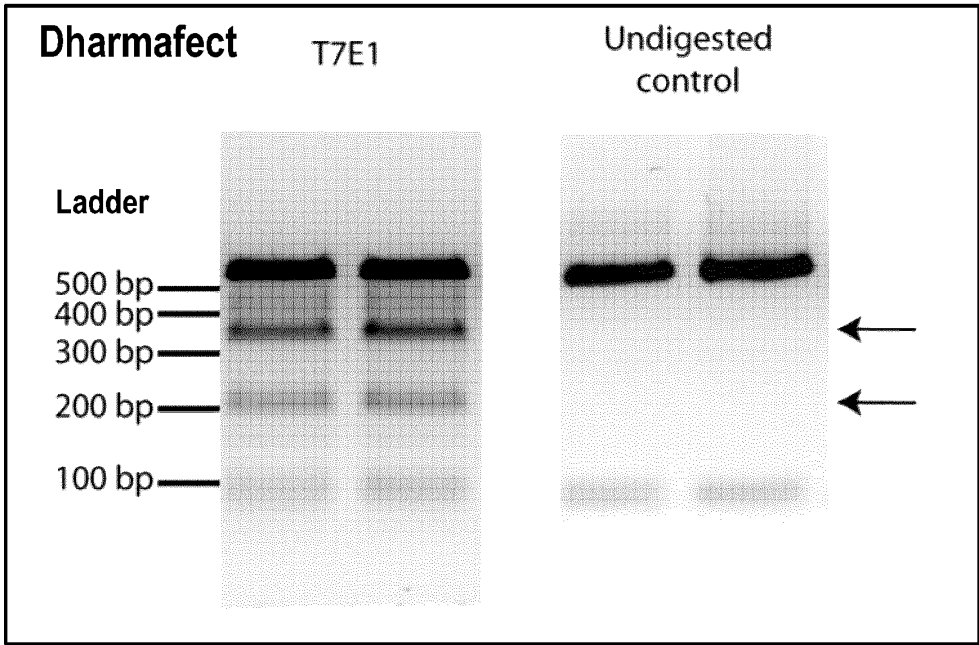


Fig. 42

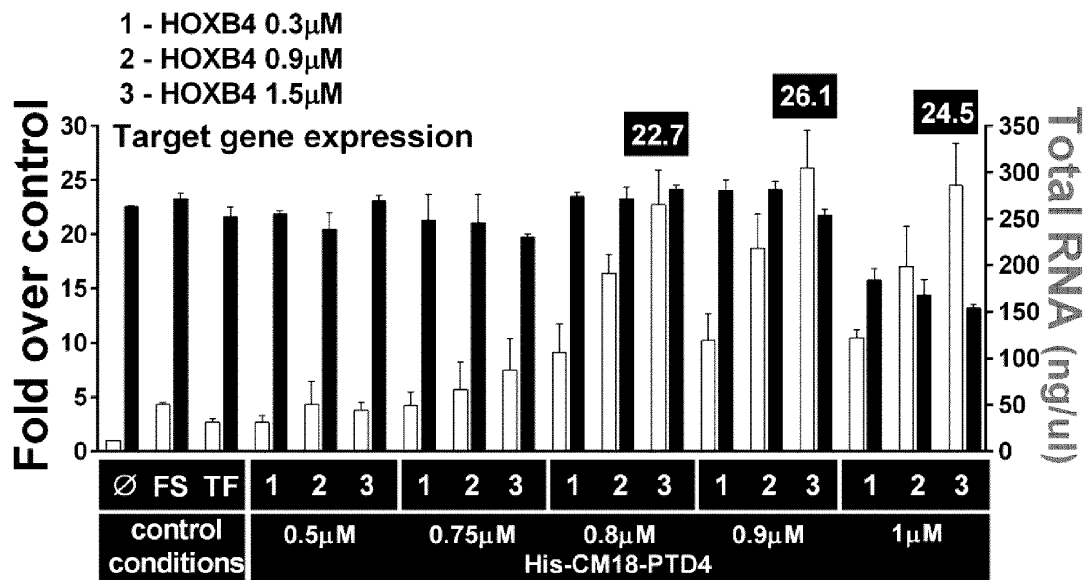


Fig. 43

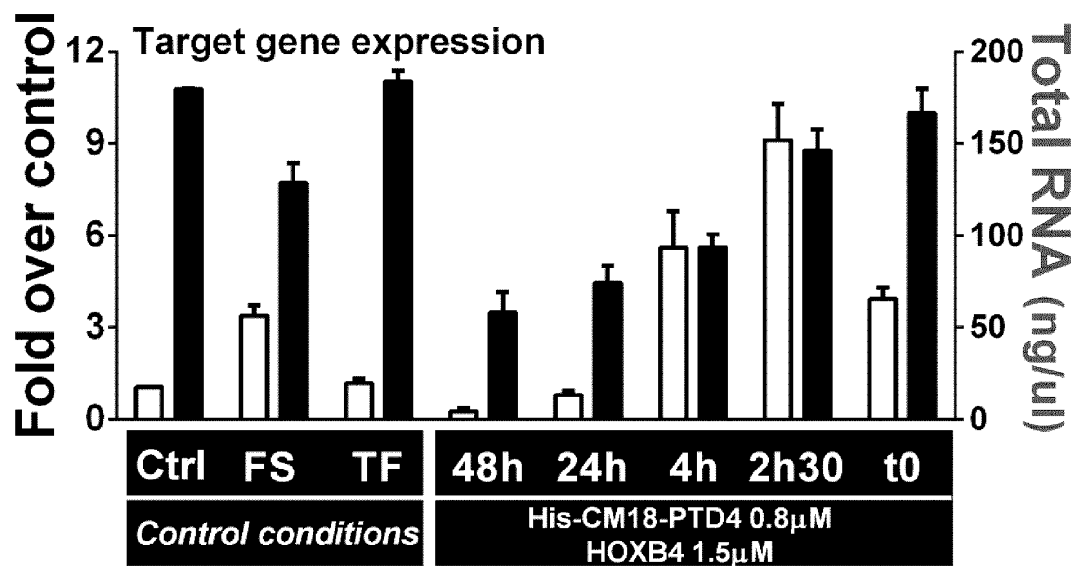


Fig. 44

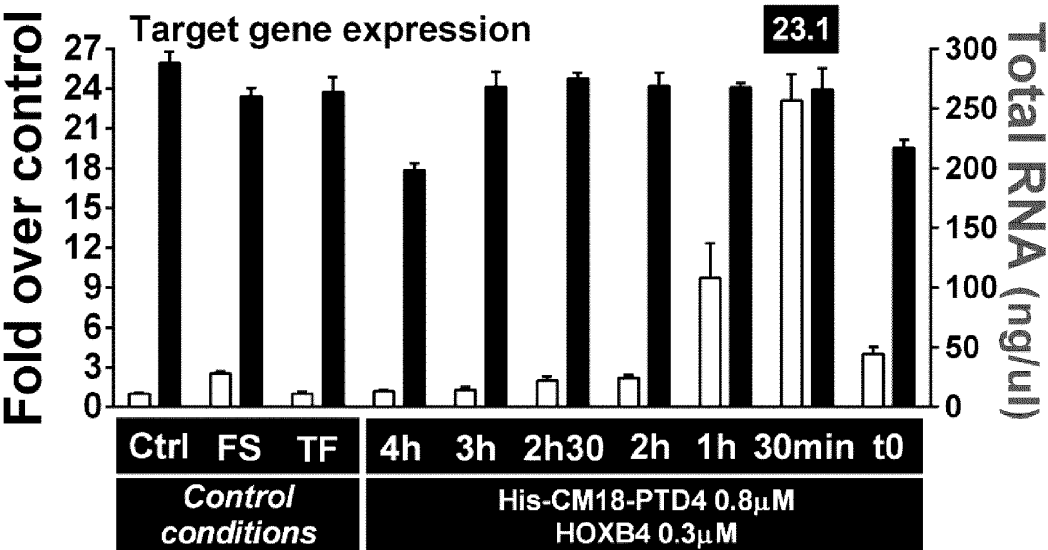


Fig. 45A

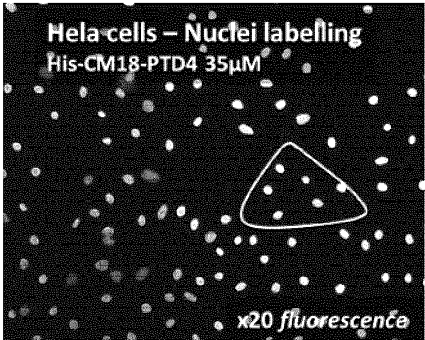


Fig. 45B

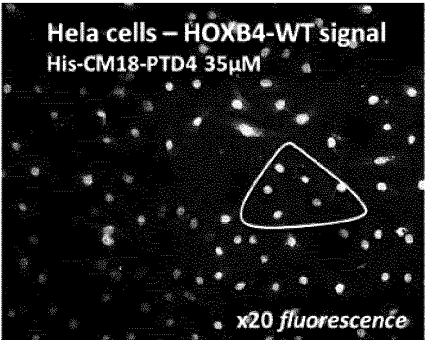


Fig. 45C

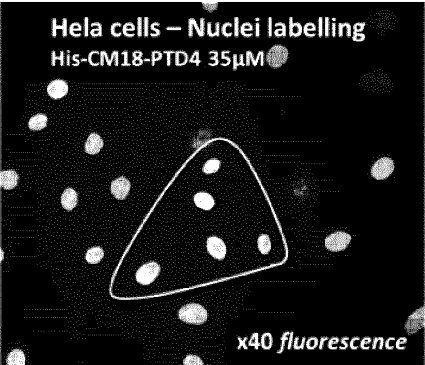


Fig. 45D

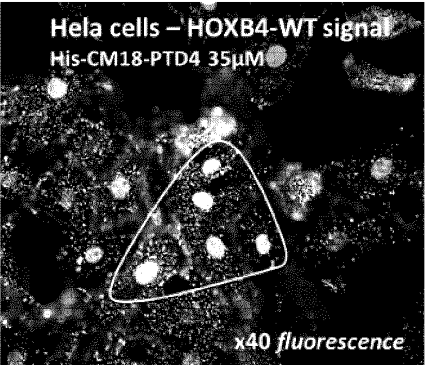


Fig. 46A

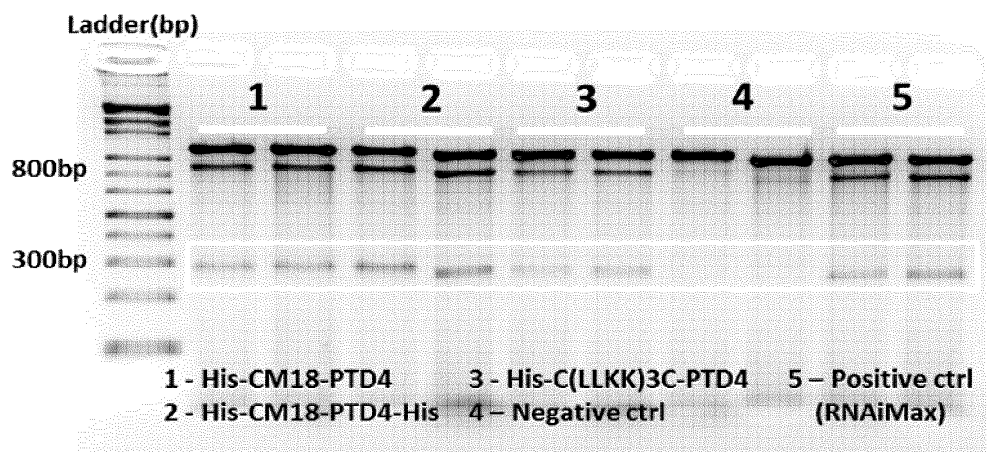


Fig. 46B

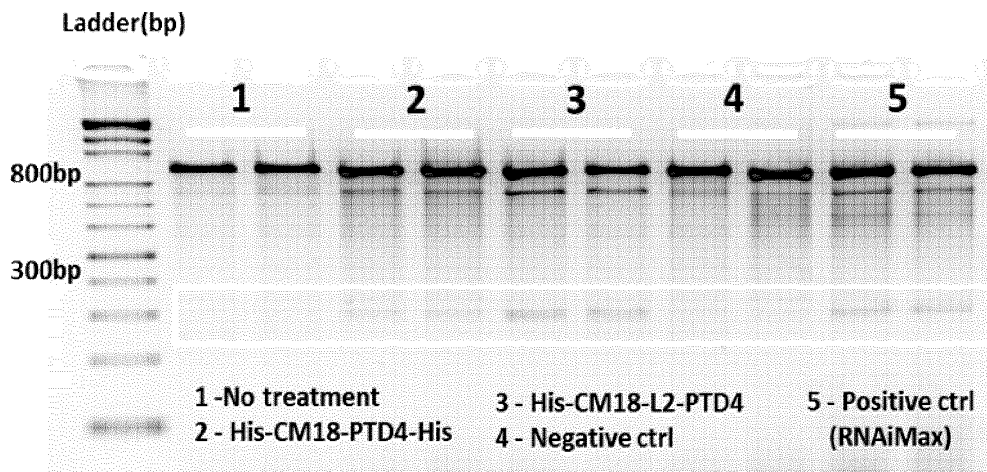


Fig. 47

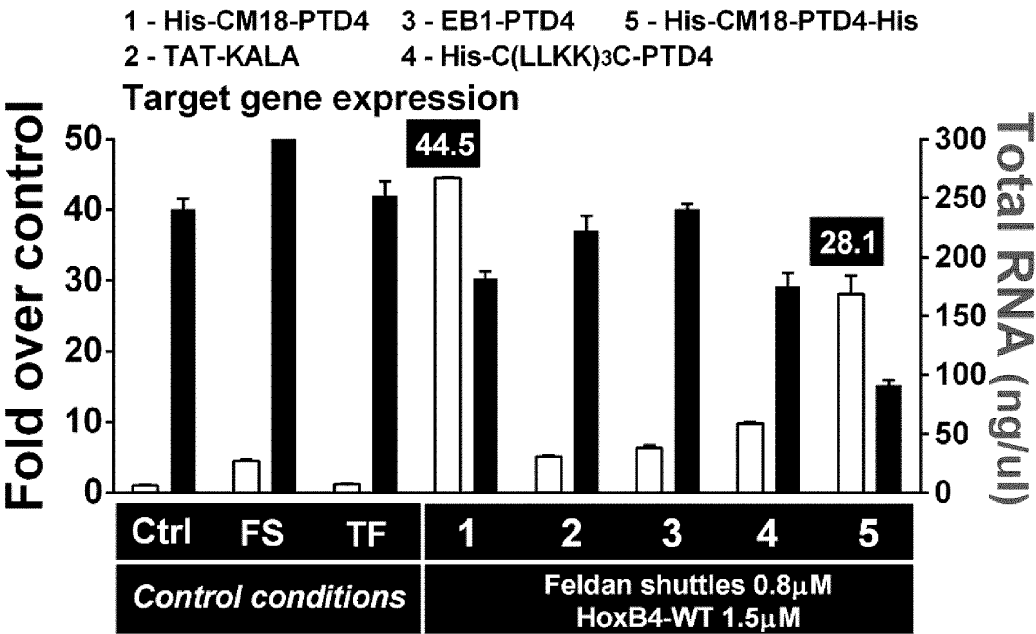


Fig. 48

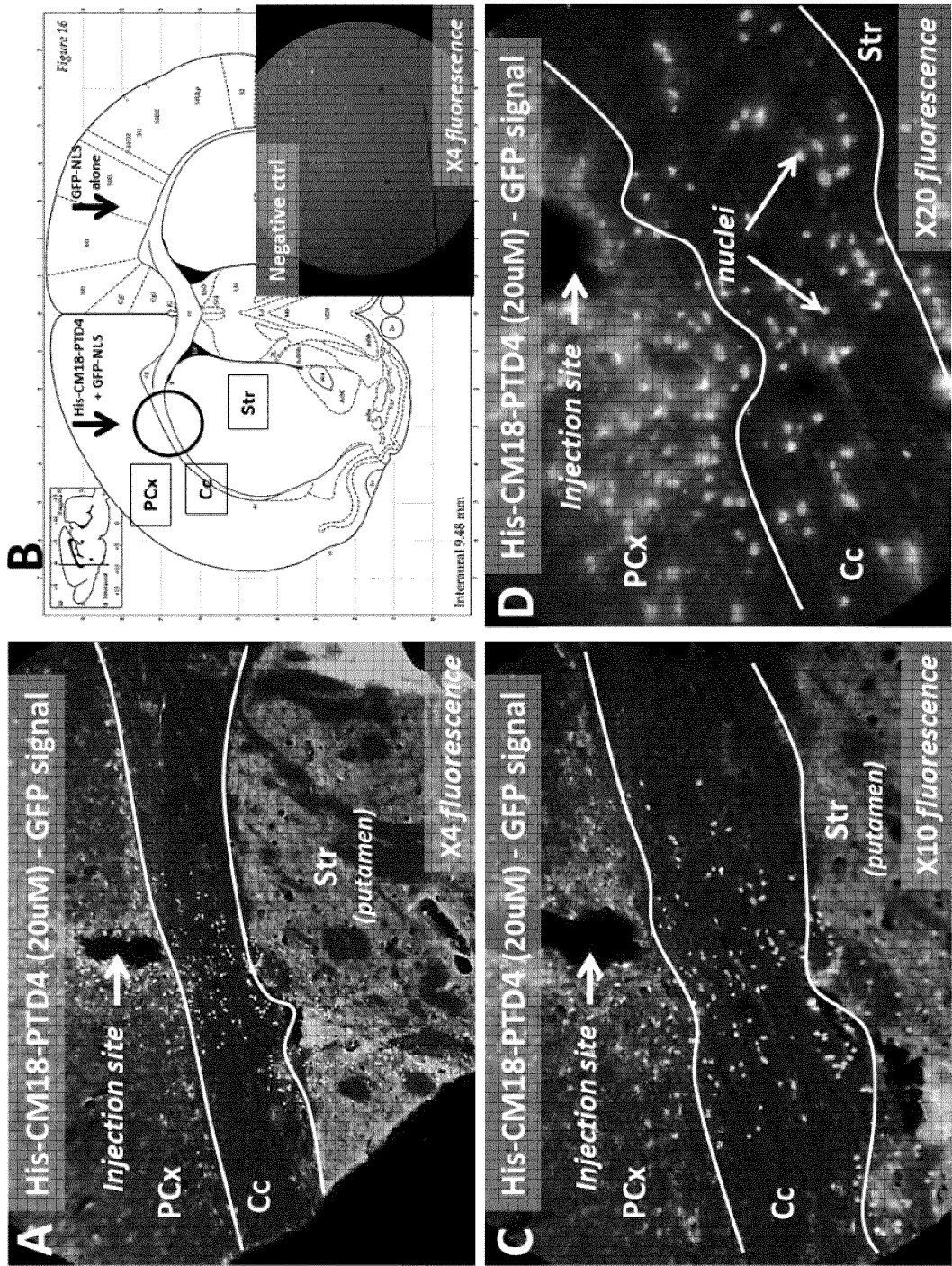


Fig. 49A

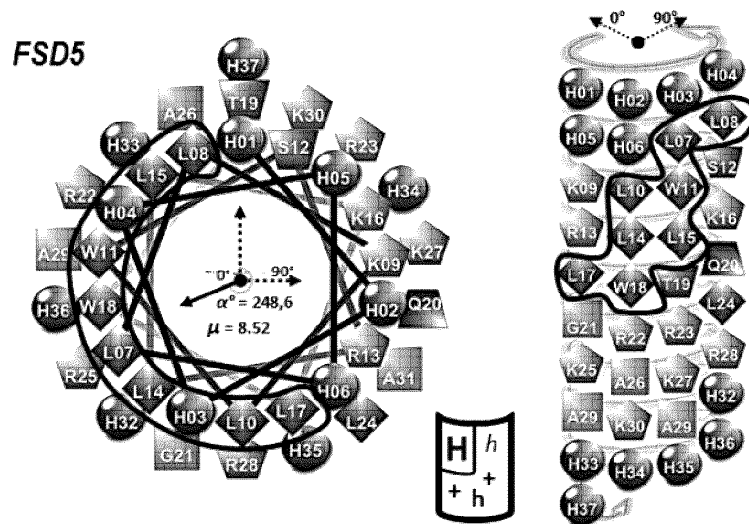


Fig. 49B

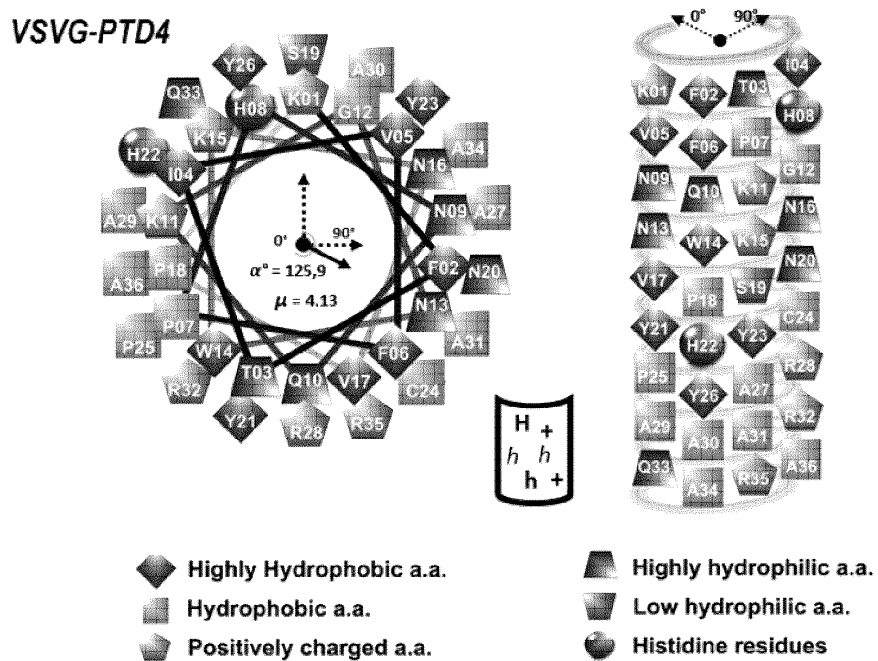


Fig. 49C

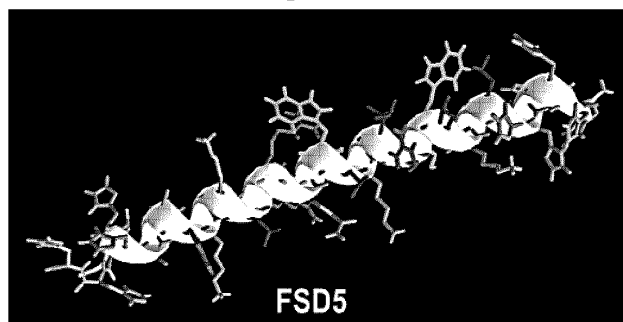


Fig. 49D

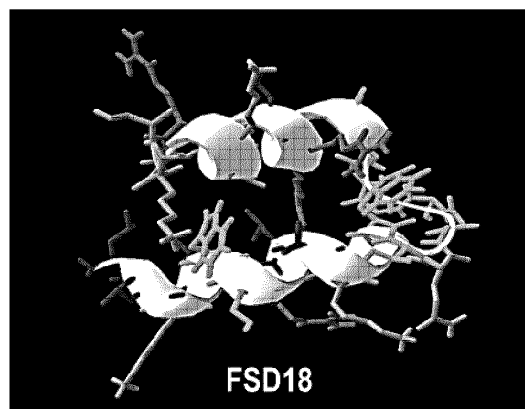


Fig. 49E

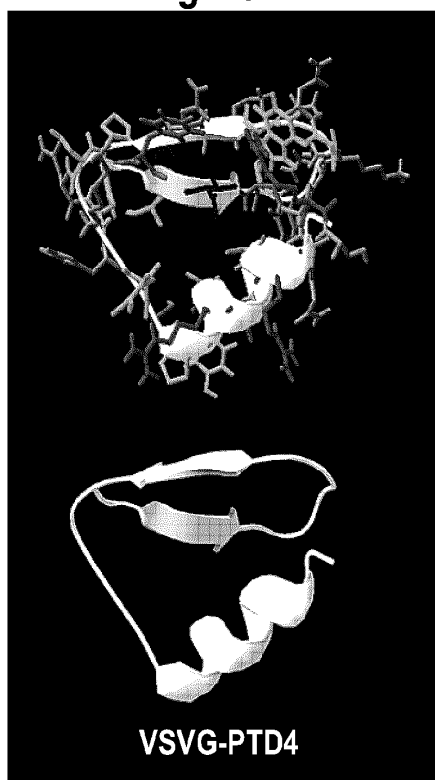


Fig. 49F

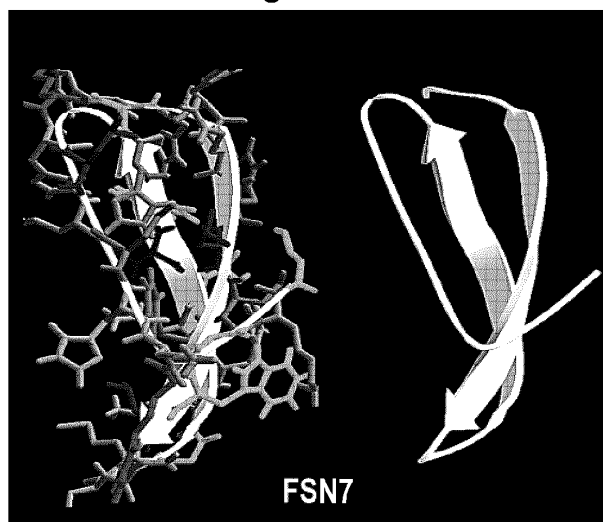


Fig. 49G

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
His-CM18-PTD4	K	W	K	L	F	F	K	K	I	G	A	-	V	L	K	V	L	T	T	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD10	K	W	K	L	A	R	A	F	A	R	-	A	I	K	K	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EB1-PTD4	-	-	-	L	I	R	L	W	S	H	-	L	I	H	I	W	F	Q	N	R	R	L	K	W	K	K	K	Y	A	R	A	A	R	Q	A	R	A	-	-	-	-	-	
FSD5	-	-	-	L	L	K	L	W	S	R	-	L	L	K	L	W	T	Q	G	R	R	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD19	-	-	-	L	L	K	L	W	S	R	-	L	L	K	T	W	T	Q	G	R	R	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD20	-	A	V	L	K	L	W	K	R	-	L	L	K	L	F	R	K	G	R	R	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD21	-	-	-	F	L	K	I	W	S	R	-	L	I	K	I	W	T	Q	G	R	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD44	-	-	-	I	L	K	I	W	S	R	-	L	I	K	I	W	T	Q	G	R	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD46	-	-	-	F	L	K	I	W	S	R	-	L	I	K	I	W	T	Q	G	L	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
His-C(LLKK) ₃ -PTD4	-	C	L	L	K	K	L	L	K	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FSD63	-	W	-	I	-	-	T	W	L	R	K	I	L	K	R	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consistency	0	0	0	7	4	7	5	6	5	7	0	7	8	8	4	5	3	5	2	3	1	0	0	1	0	5	3	10	7	9	4	3	6	1	2	1	0	0	-	-	-	-	

Unconserved012345678910Conserved

Fig. 50A

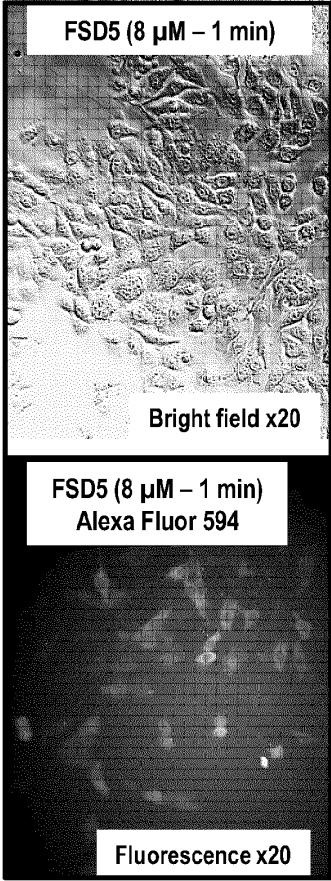


Fig. 50B

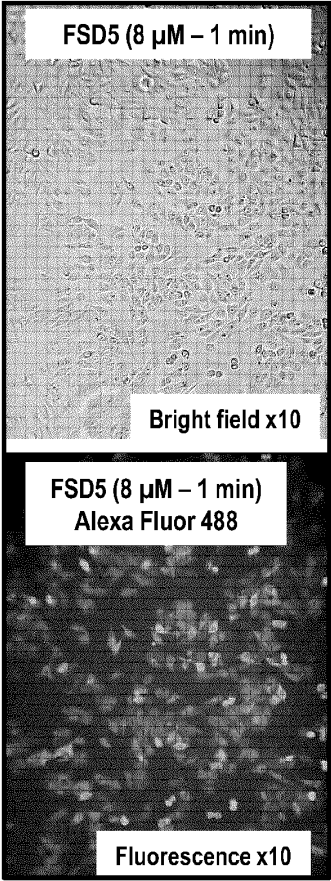


Fig. 50C

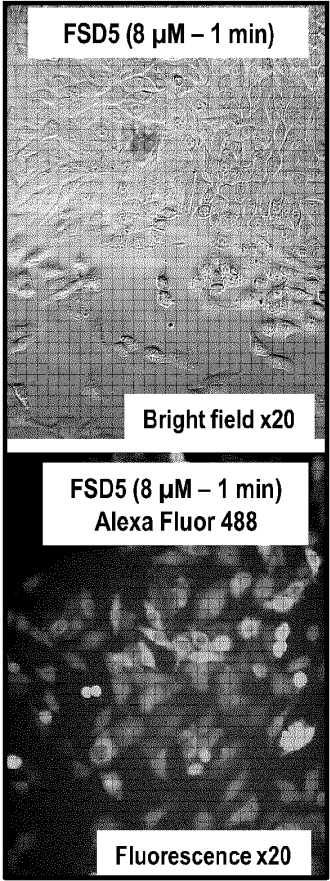
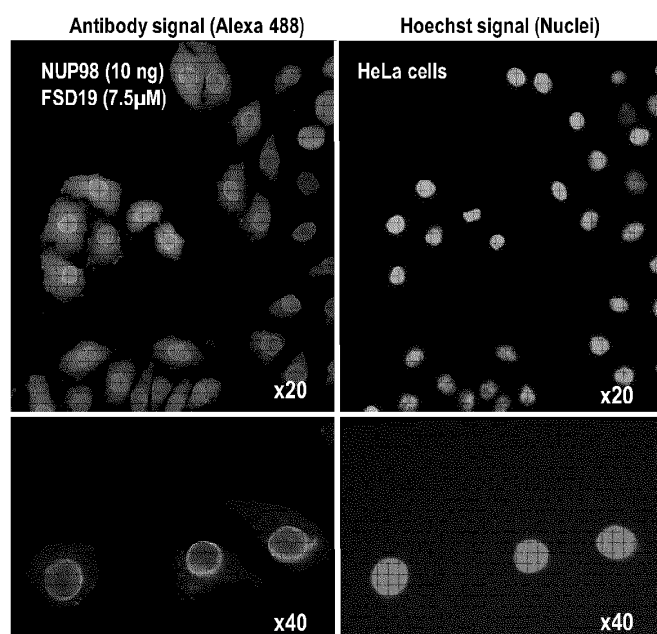


Fig. 50D

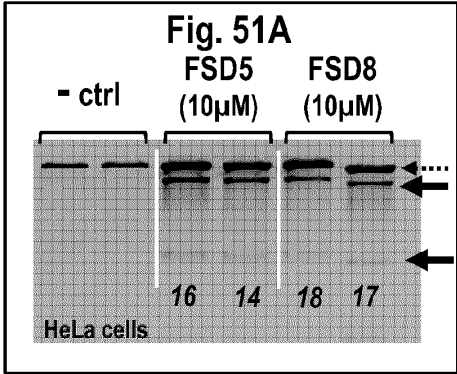
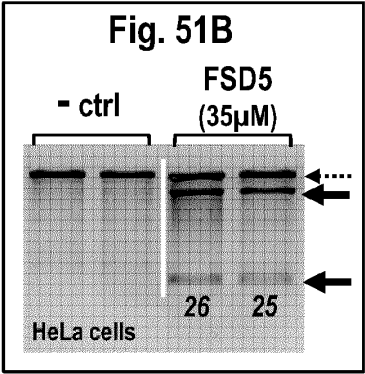
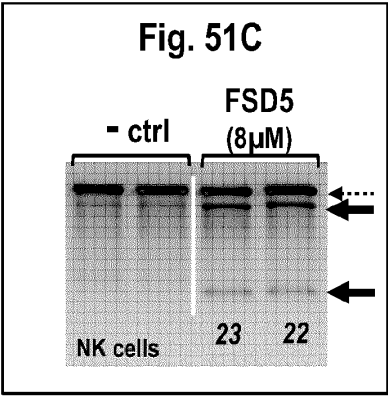
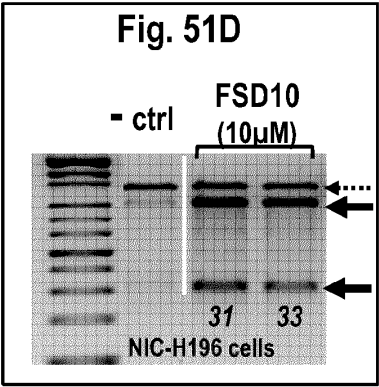
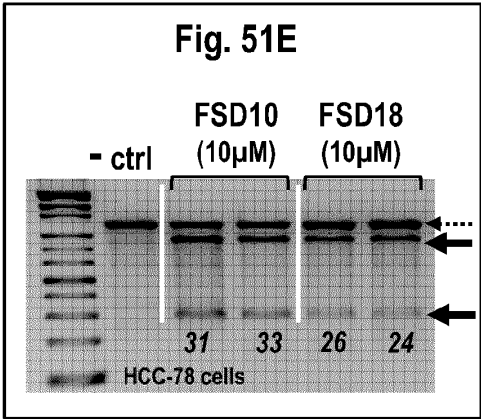
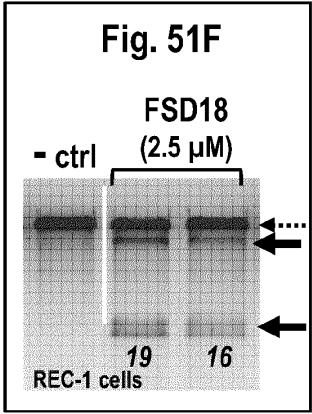


Fig. 51G

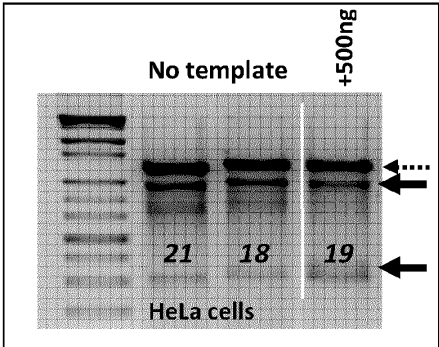


Fig. 51H

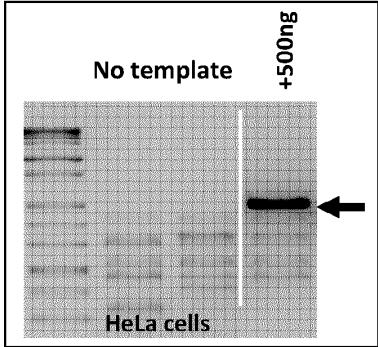


Fig. 51I

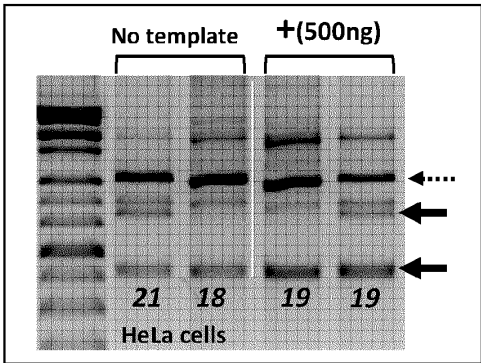


Fig. 51J

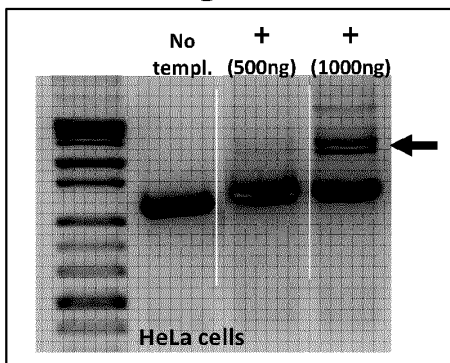


Fig. 51K

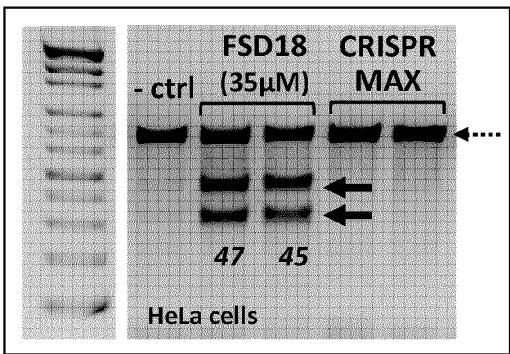
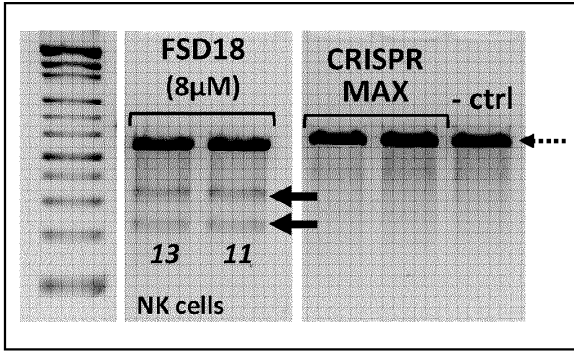
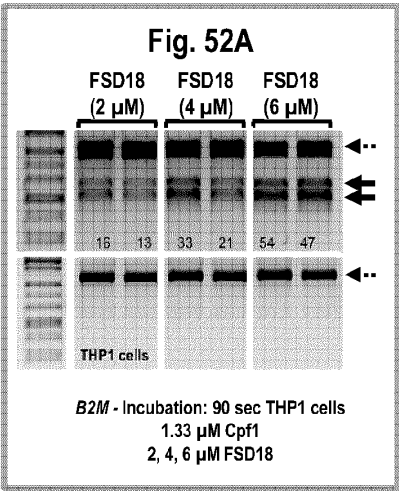
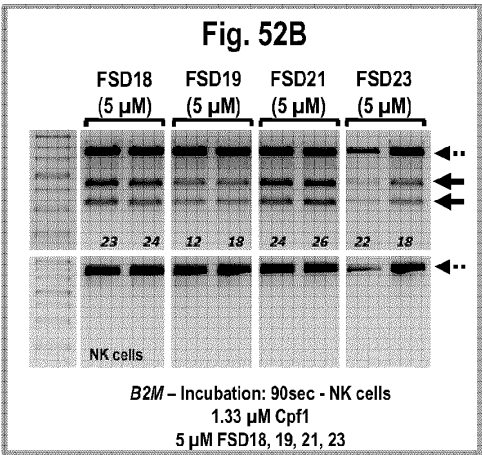
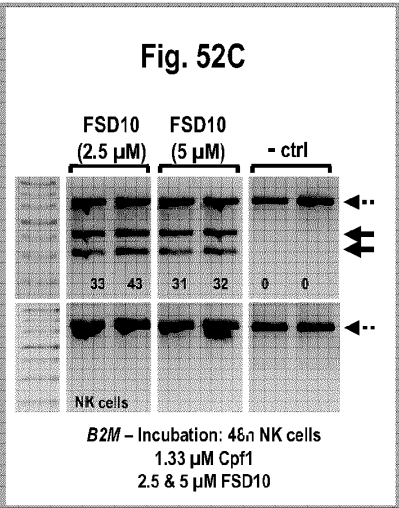
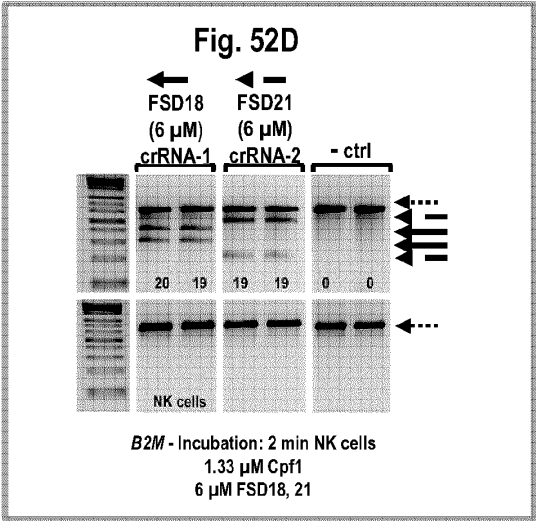
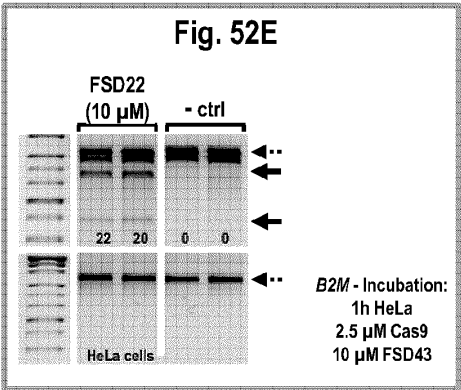
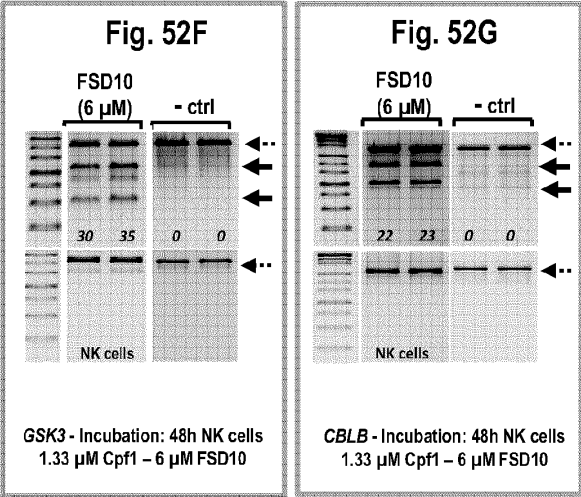
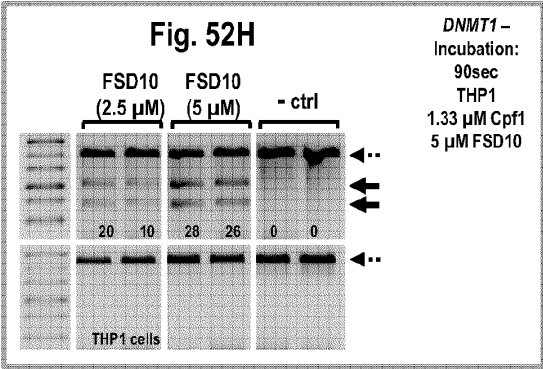
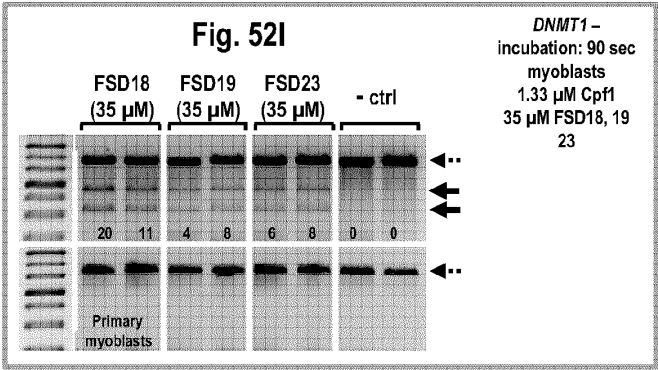
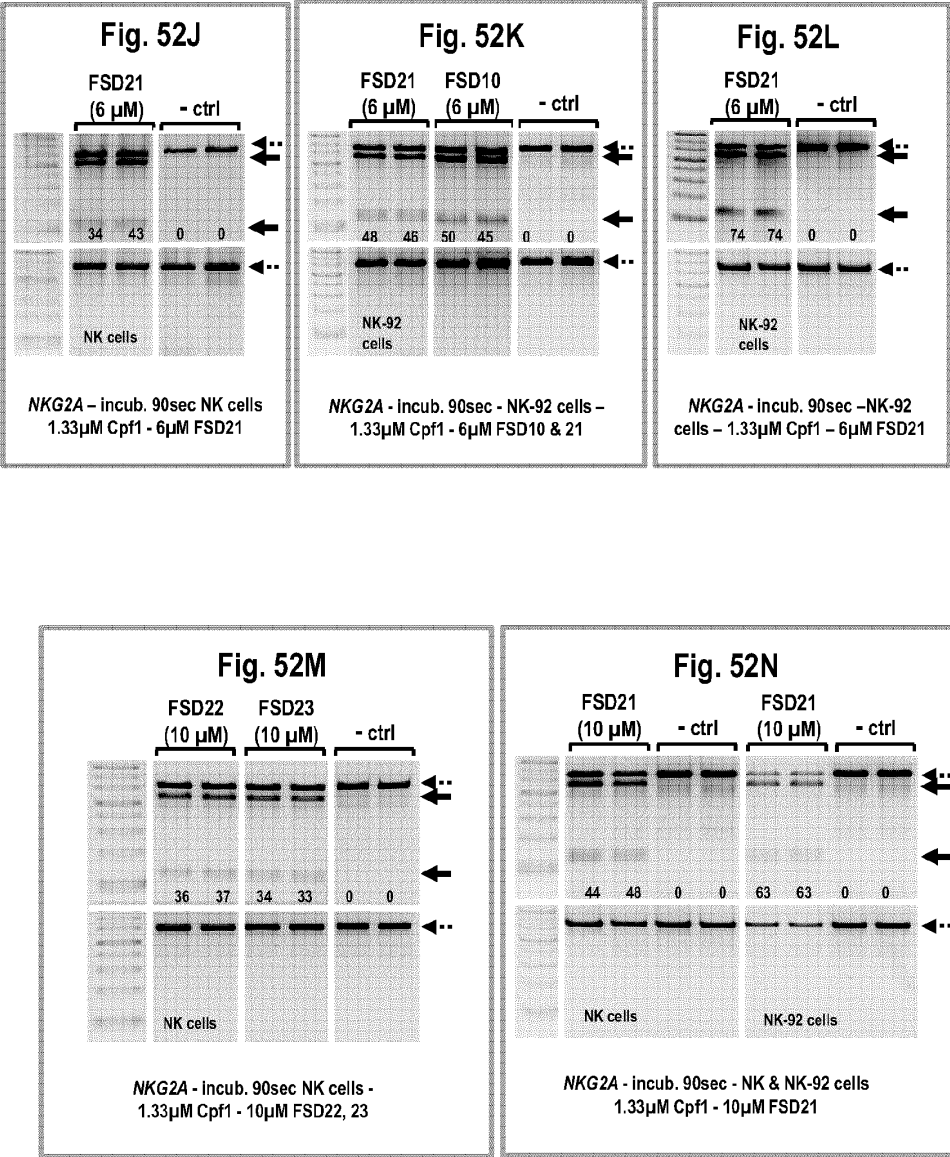


Fig. 51L









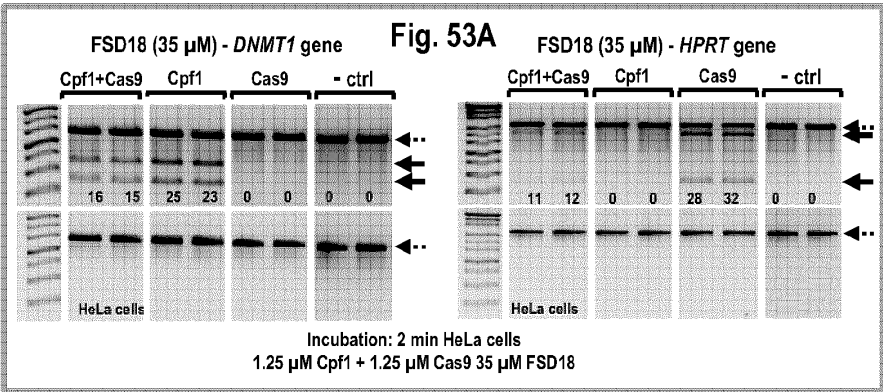
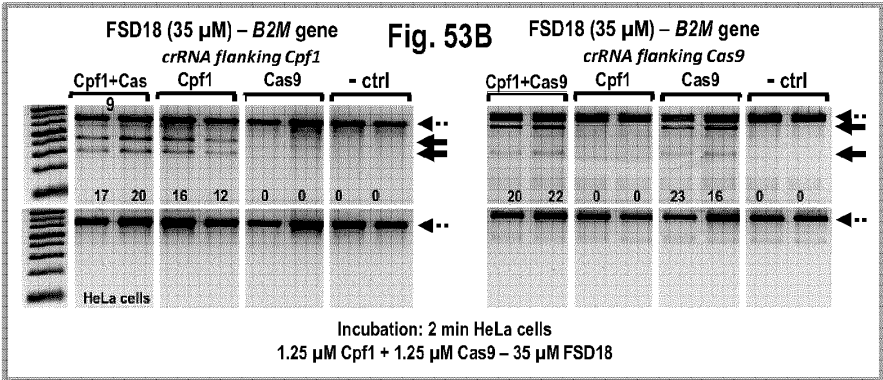
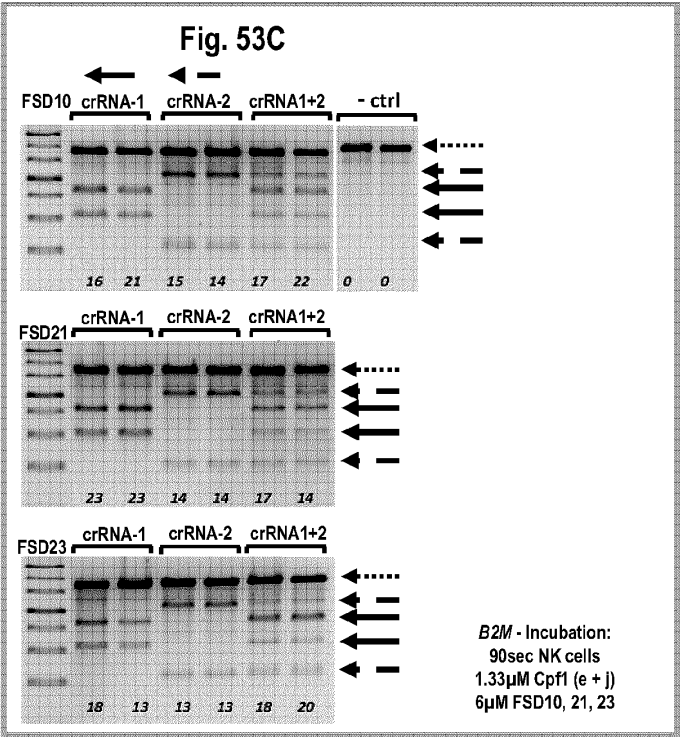


Fig. 54A

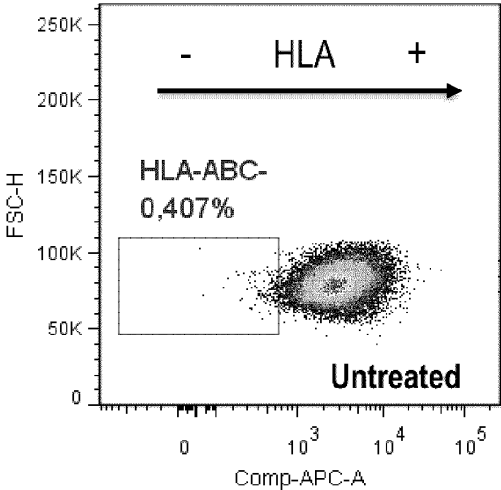


Fig. 54B

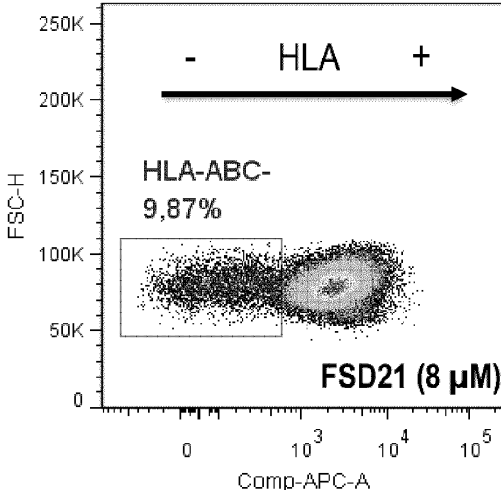


Fig. 54C

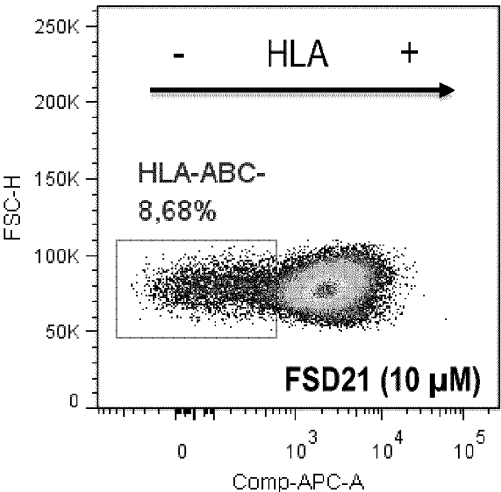


Fig. 54D

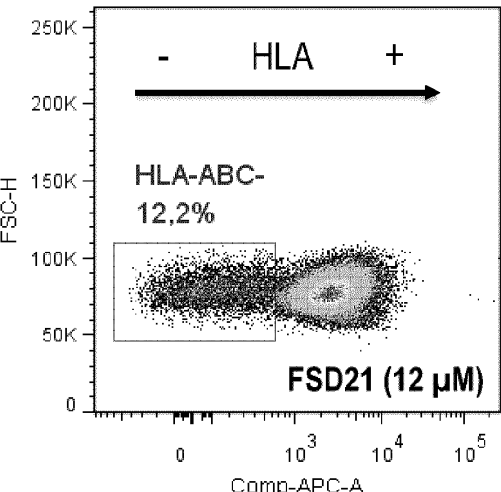


Fig. 55A

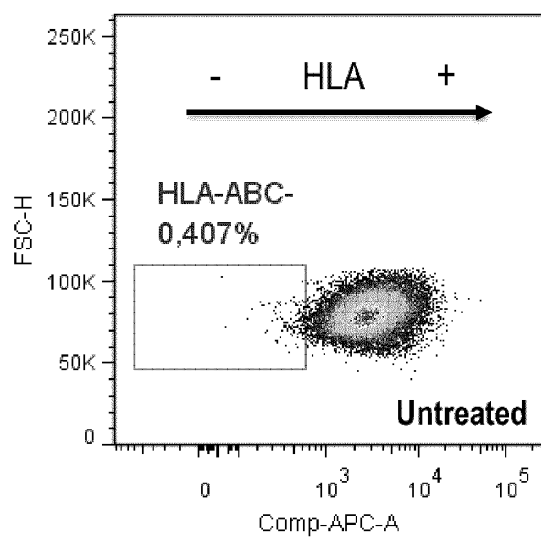


Fig. 55B

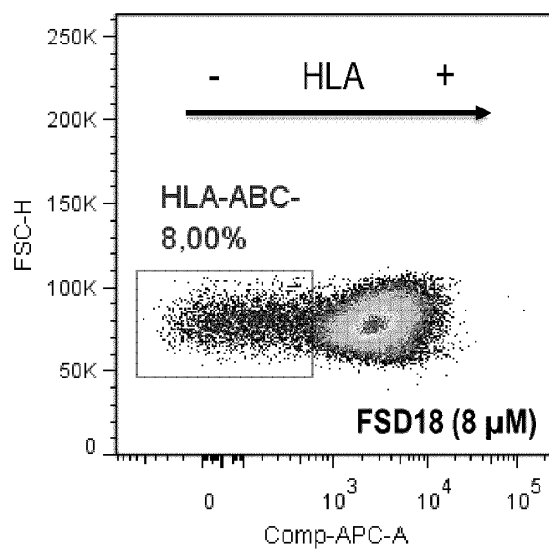


Fig. 55C

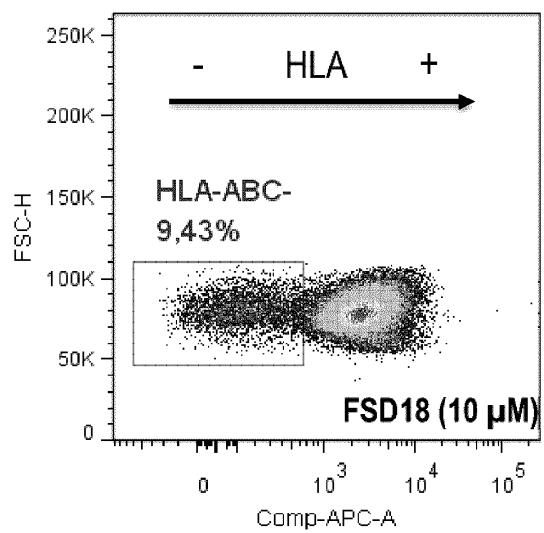


Fig. 55D

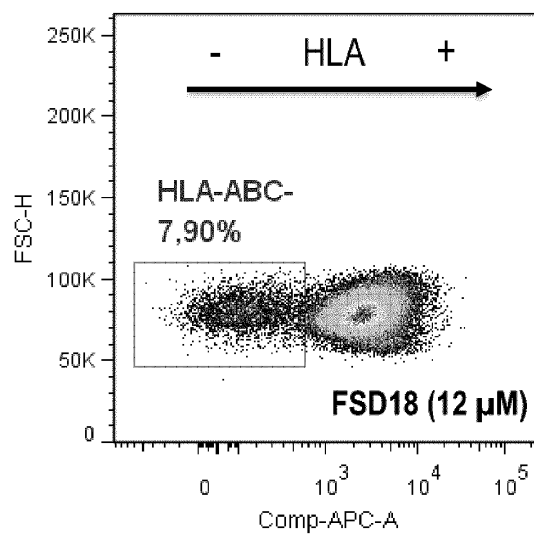


Fig. 56A

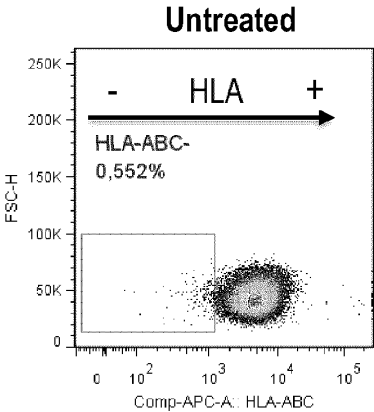


Fig. 56B

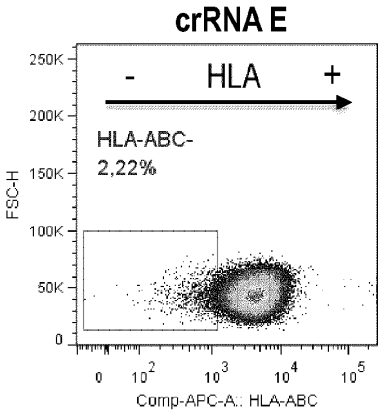


Fig. 56C
crRNA G

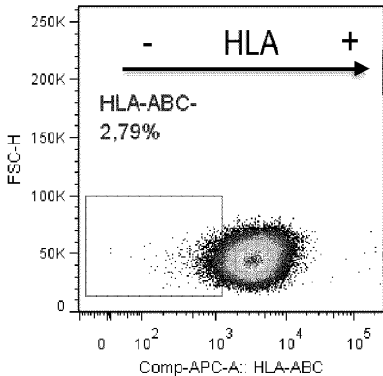


Fig. 56D
crRNA J

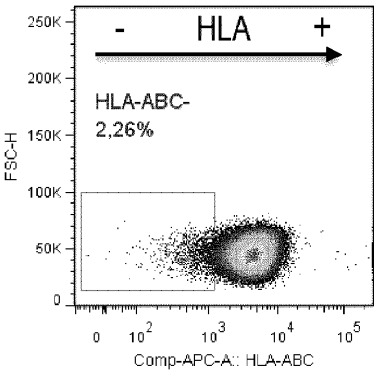


Fig. 56E

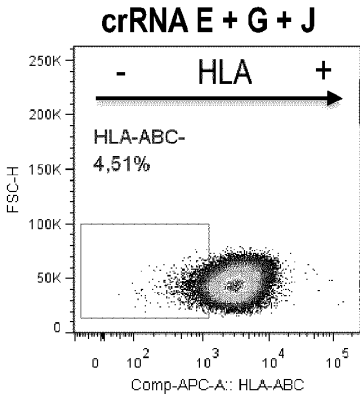


Fig. 57A

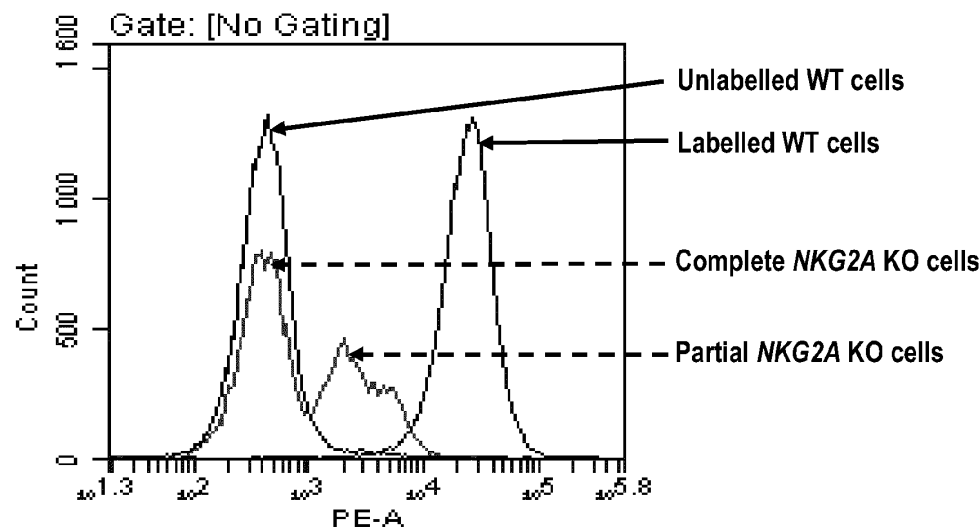


Fig. 57B

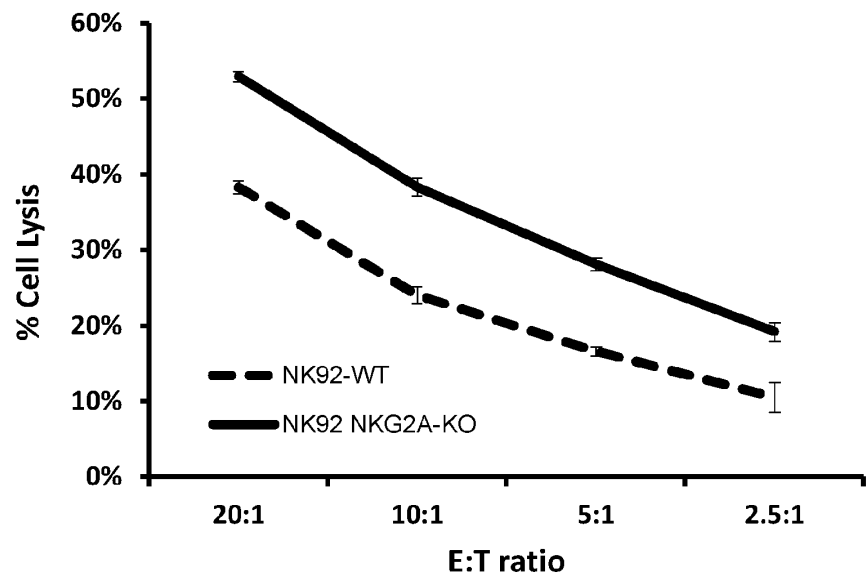


Fig. 58A

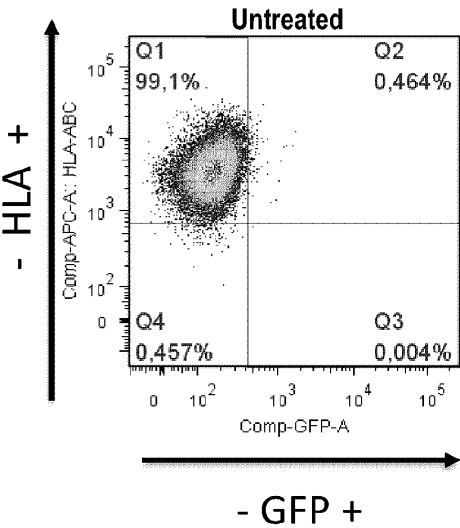


Fig. 58B

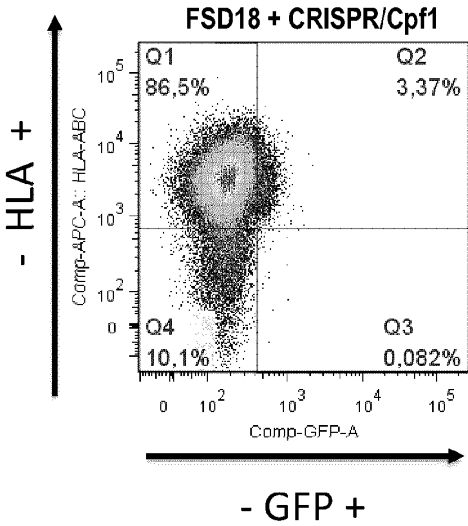


Fig. 58C

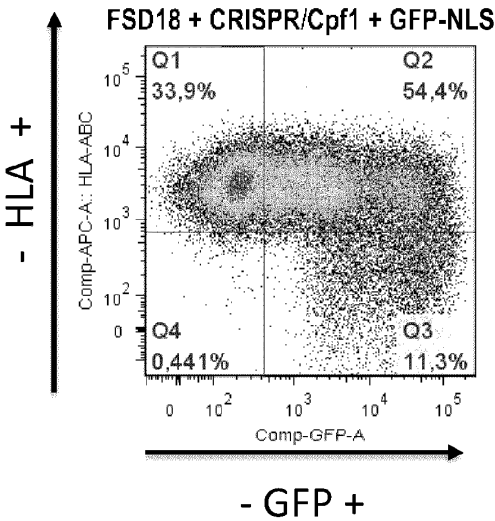


Fig. 58D

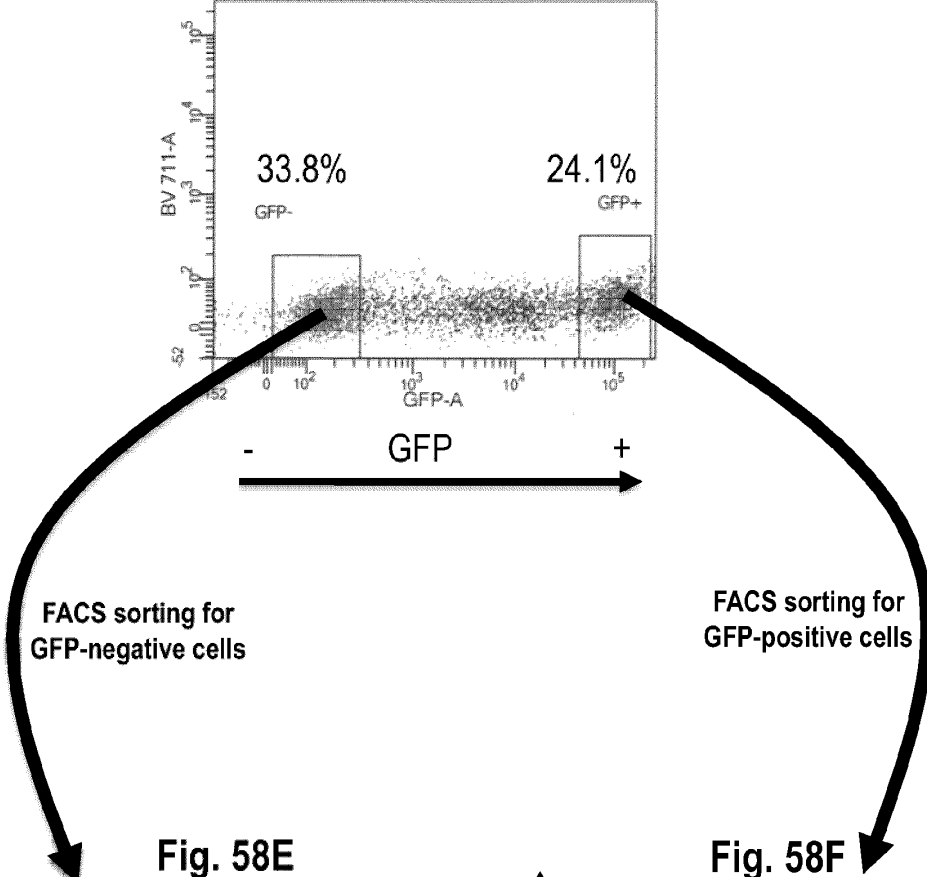
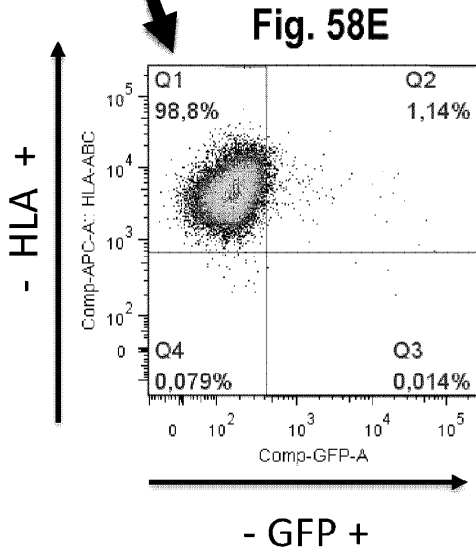
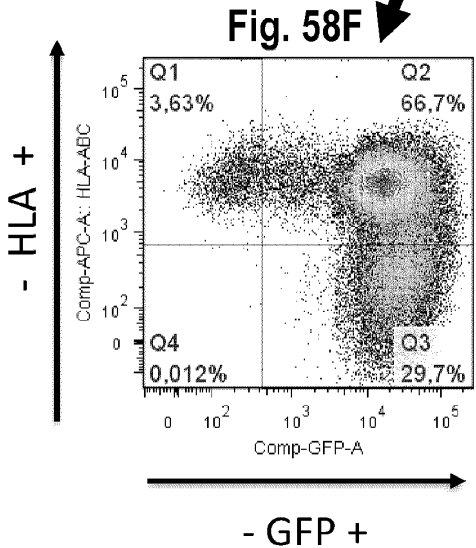


Fig.58G

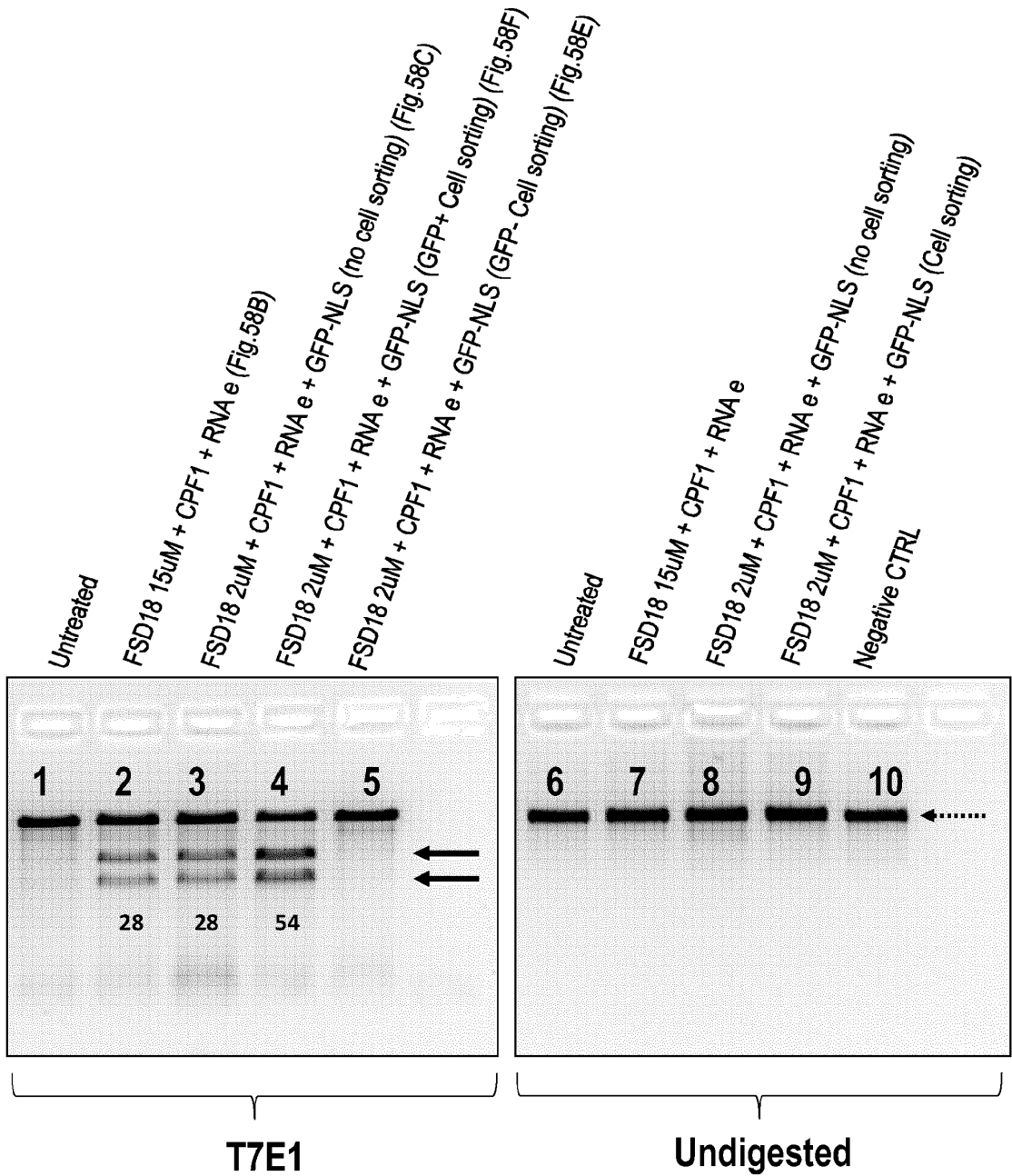


Fig. 59A

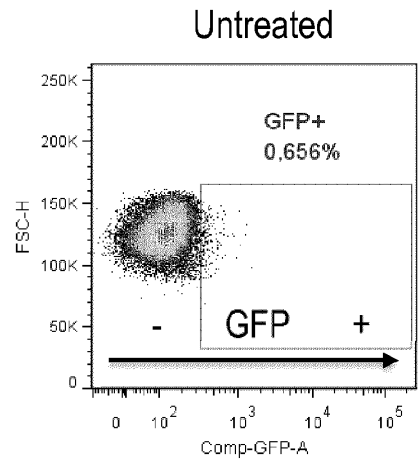


Fig. 59B

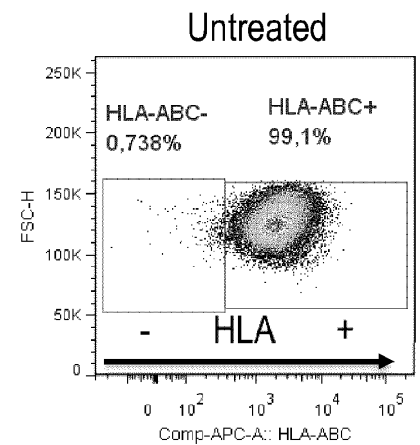


Fig. 59C

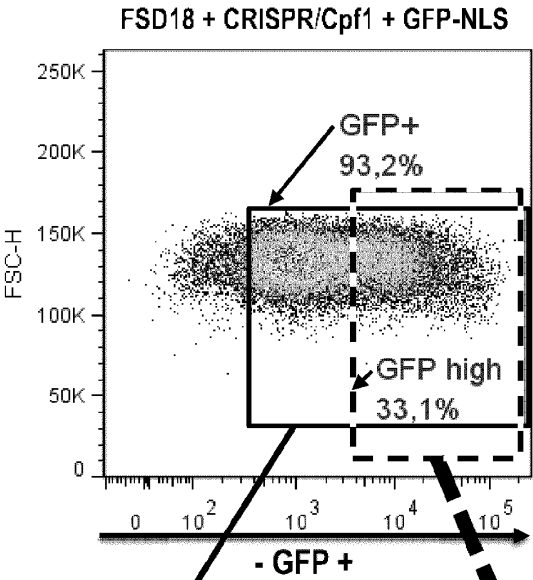


Fig. 59D
GFP +

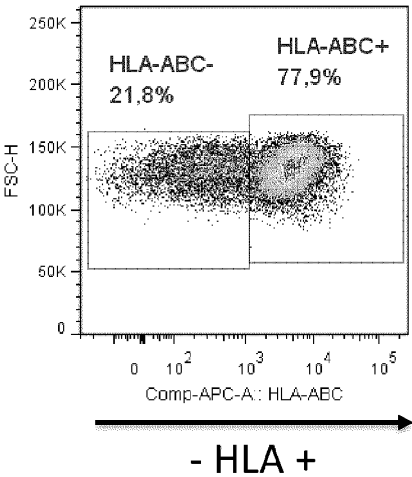


Fig. 59E
GFP high

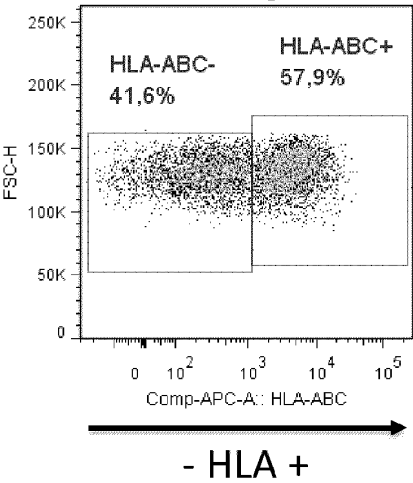


Fig. 60A

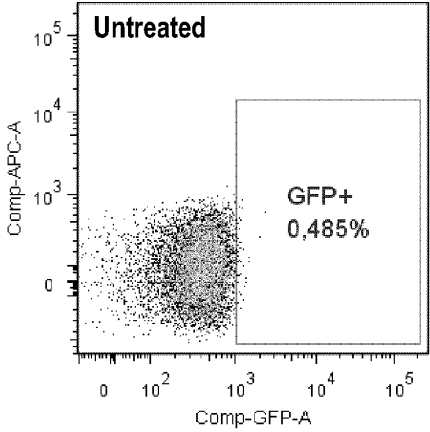
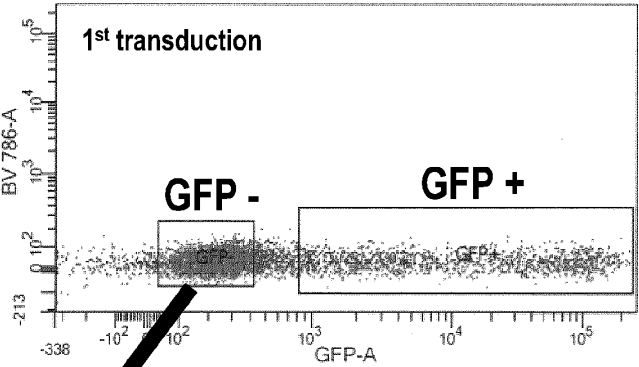


Fig. 60B



Sorting

Fig. 60C

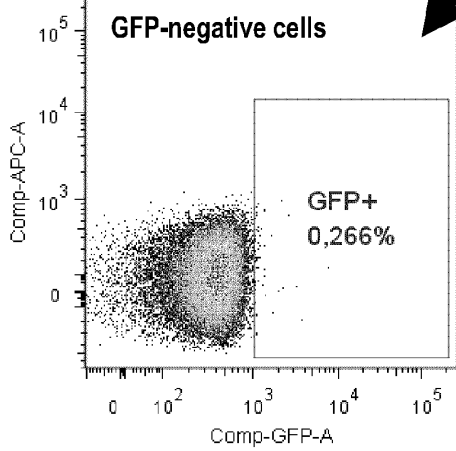


Fig. 60D

