

Fig. 1A

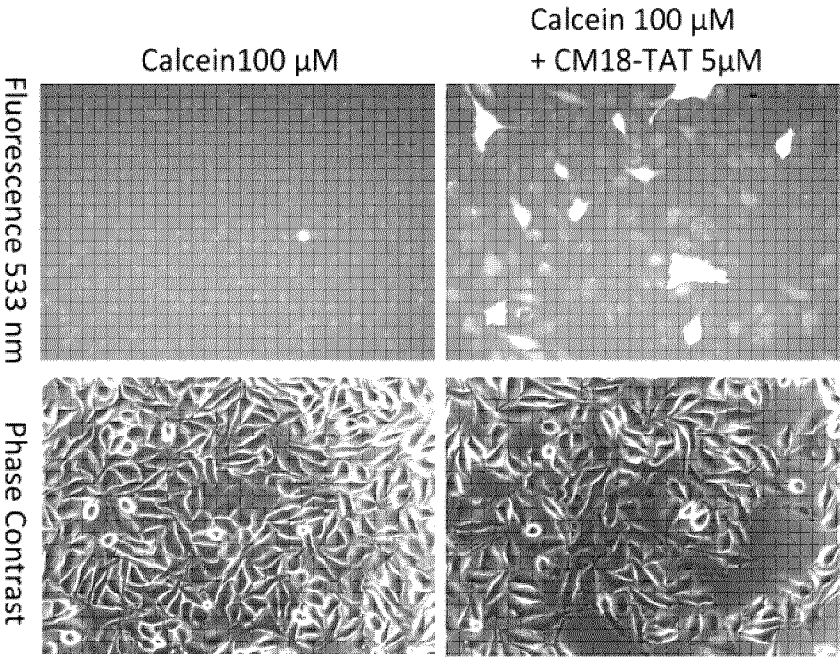


Fig. 1B

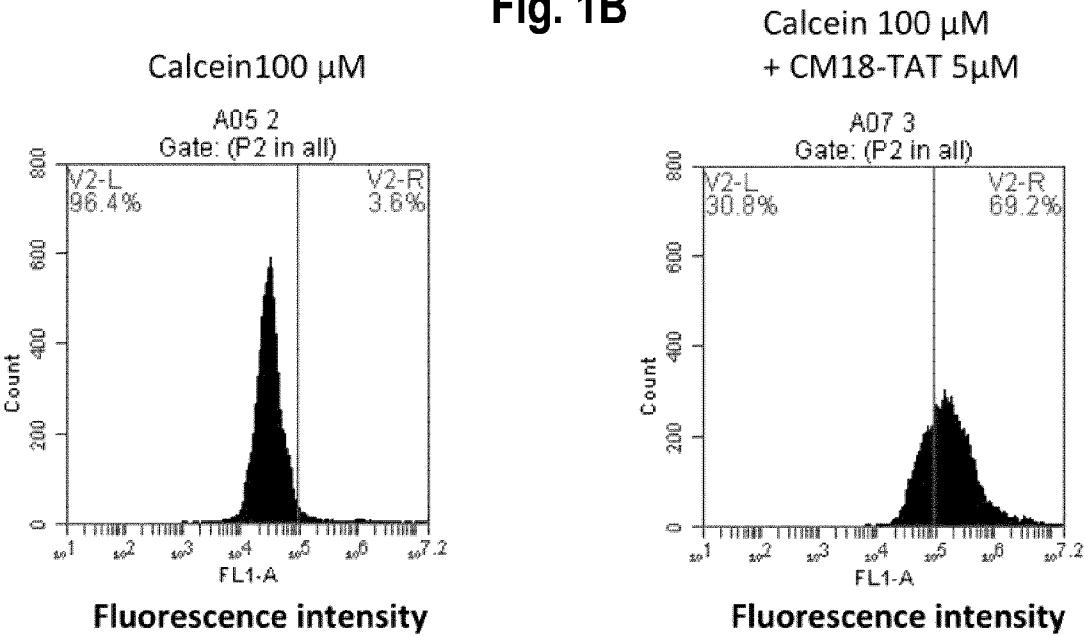


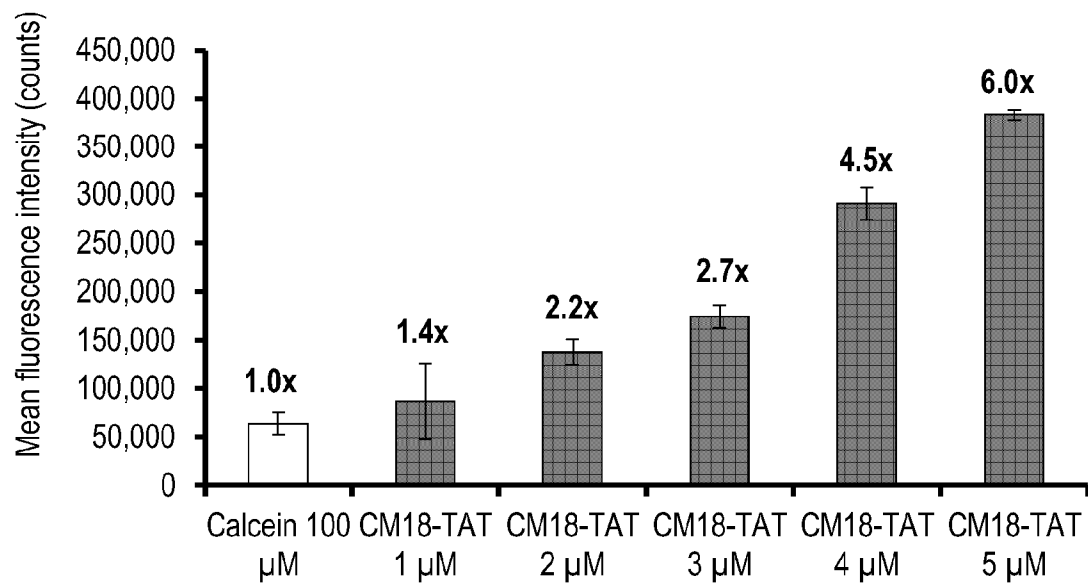
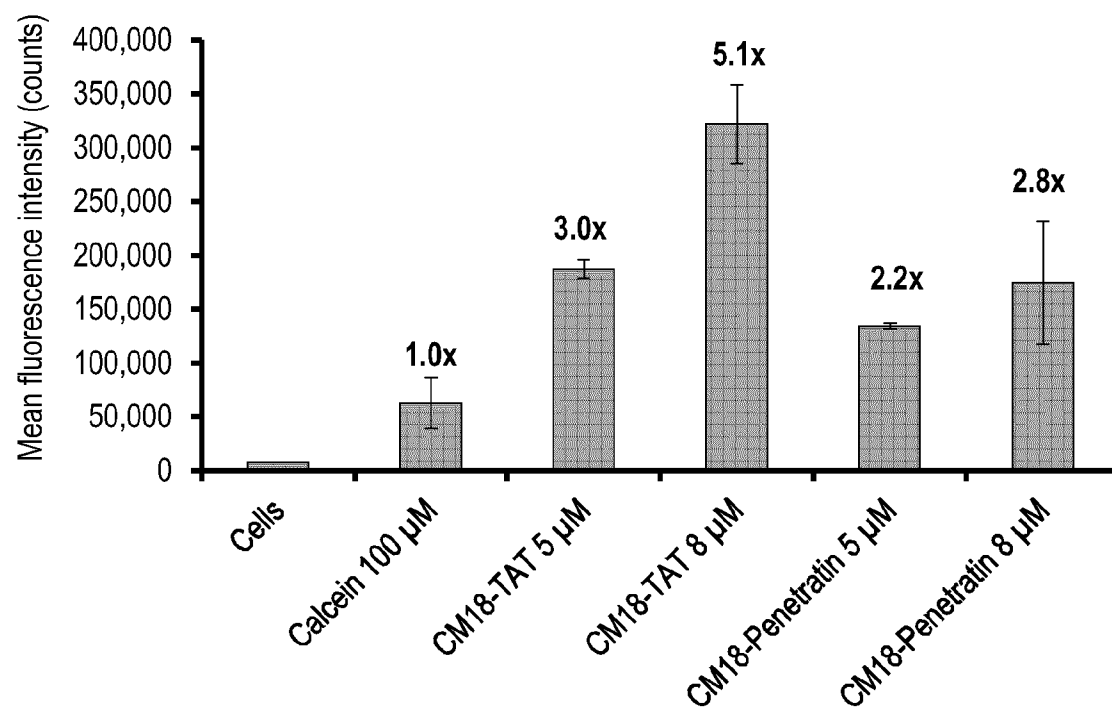
Fig. 2**Fig. 3**

Fig. 4

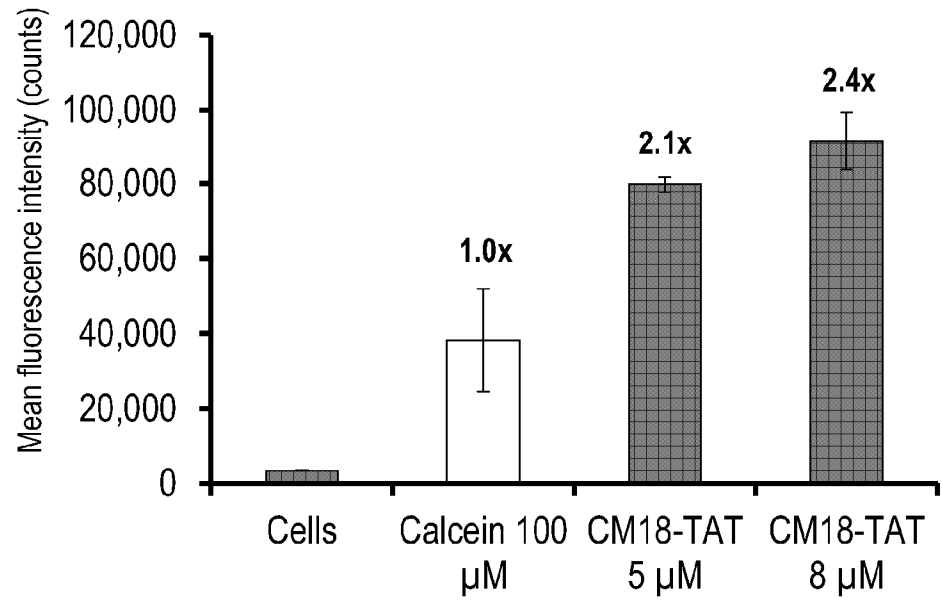


Fig. 5

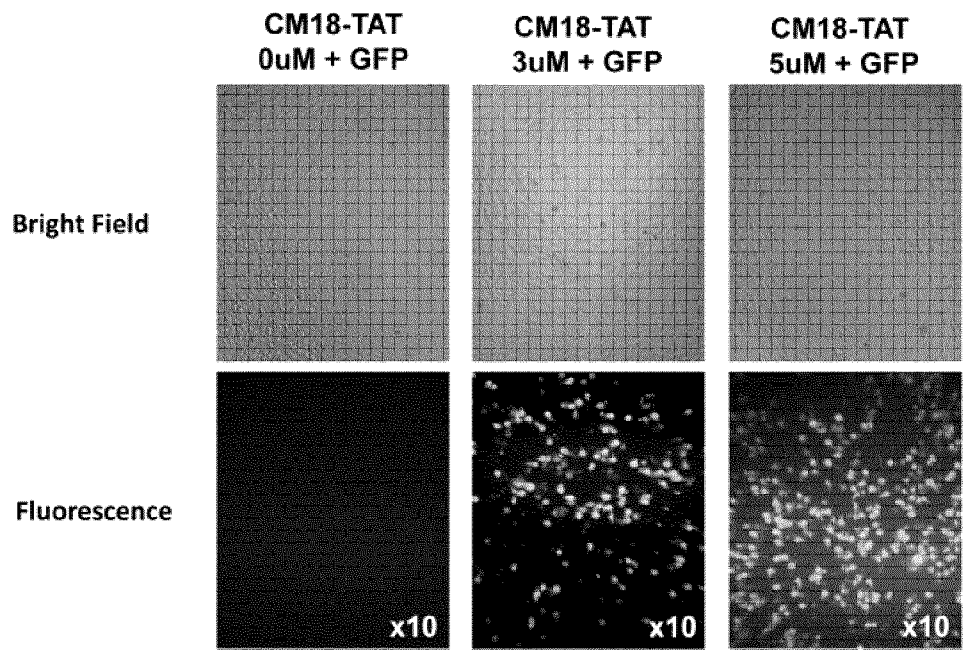


Fig. 6A

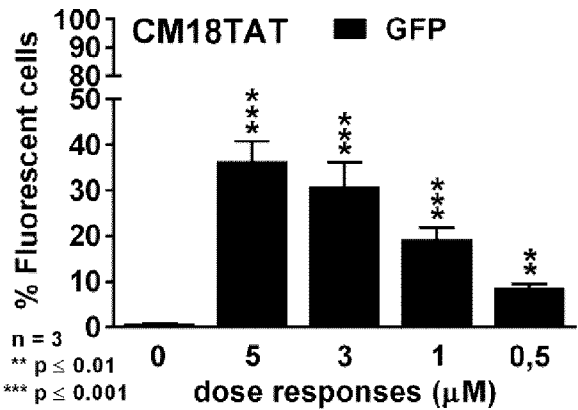


Fig. 6B

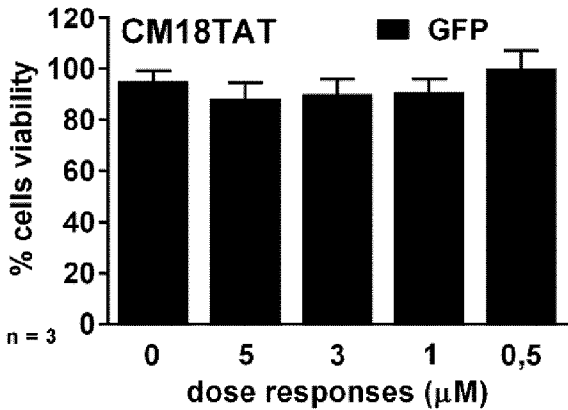


Fig. 7A

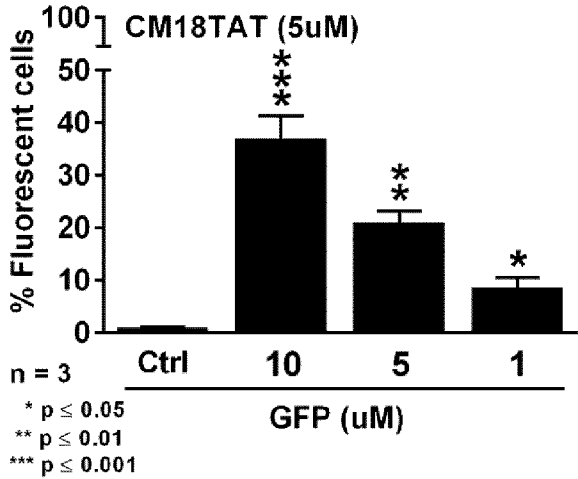


Fig. 7B

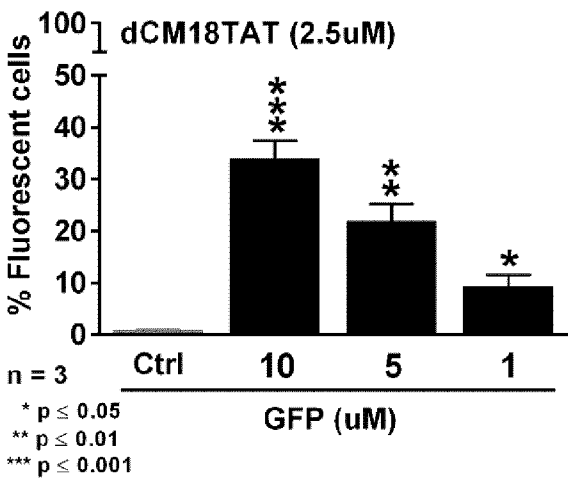


Fig. 8

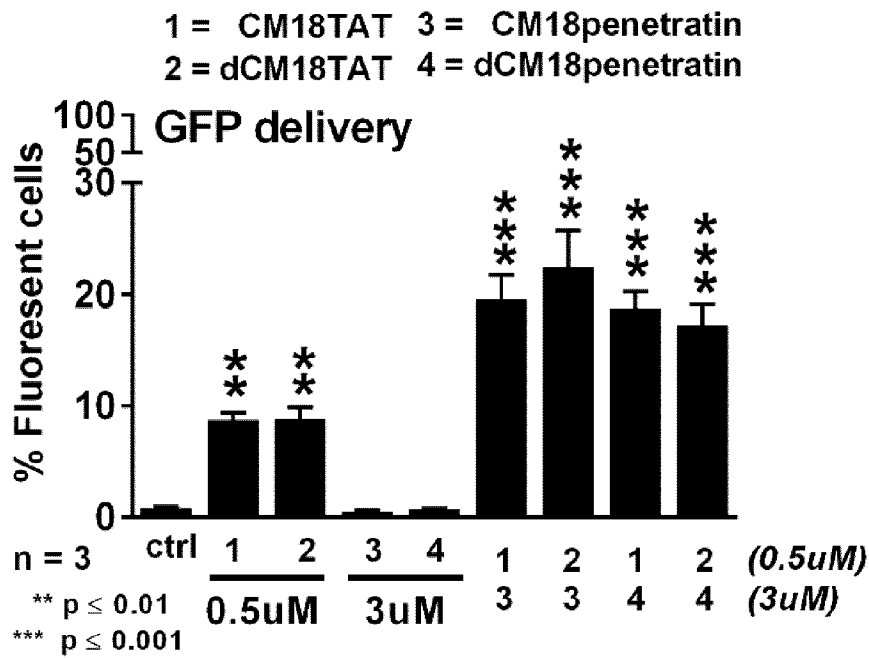


Fig. 9

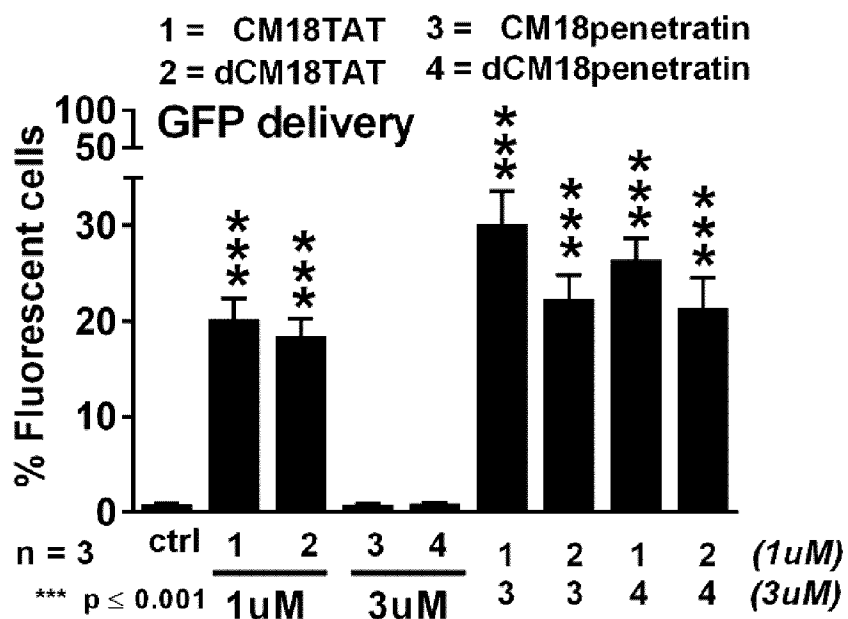


Fig. 10

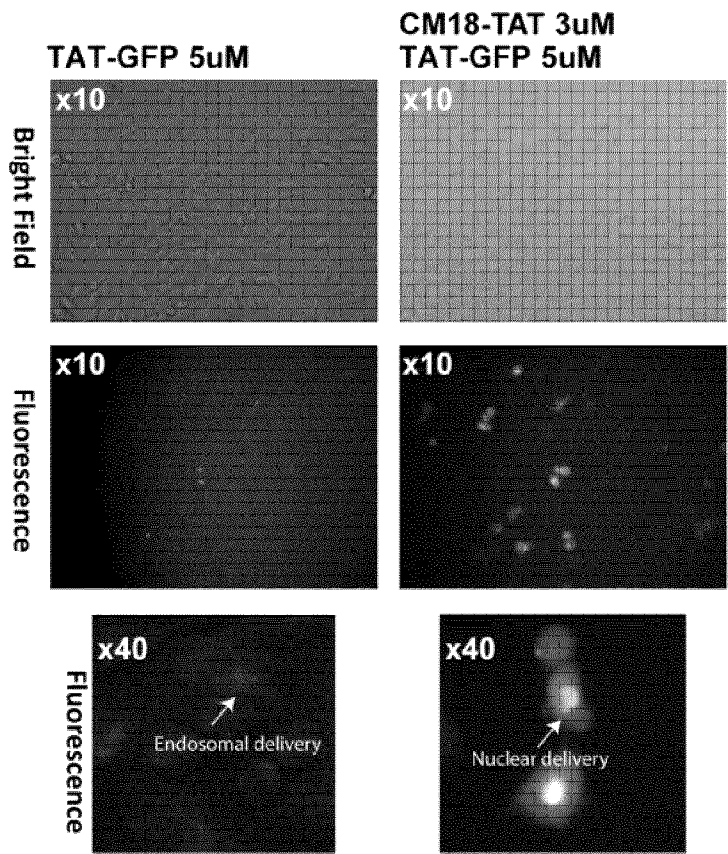


Fig. 11A

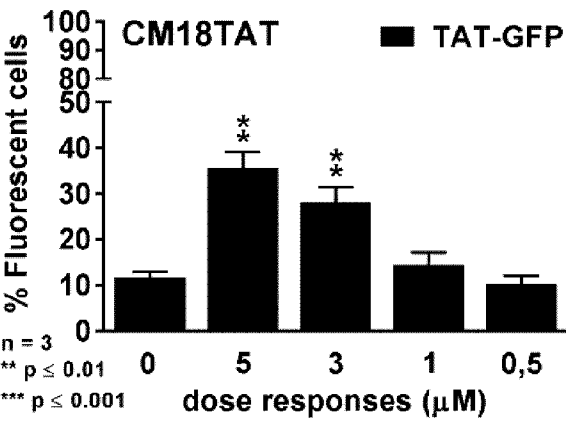


Fig. 11B

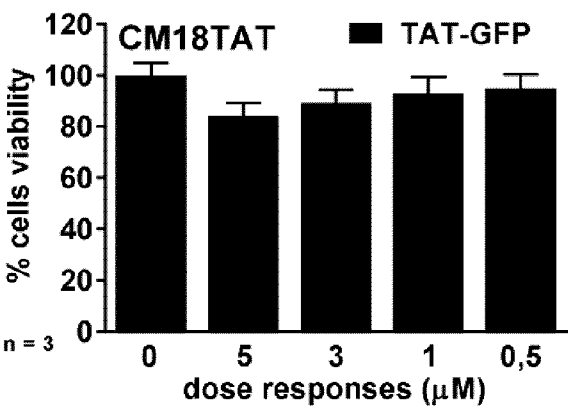


Fig. 12

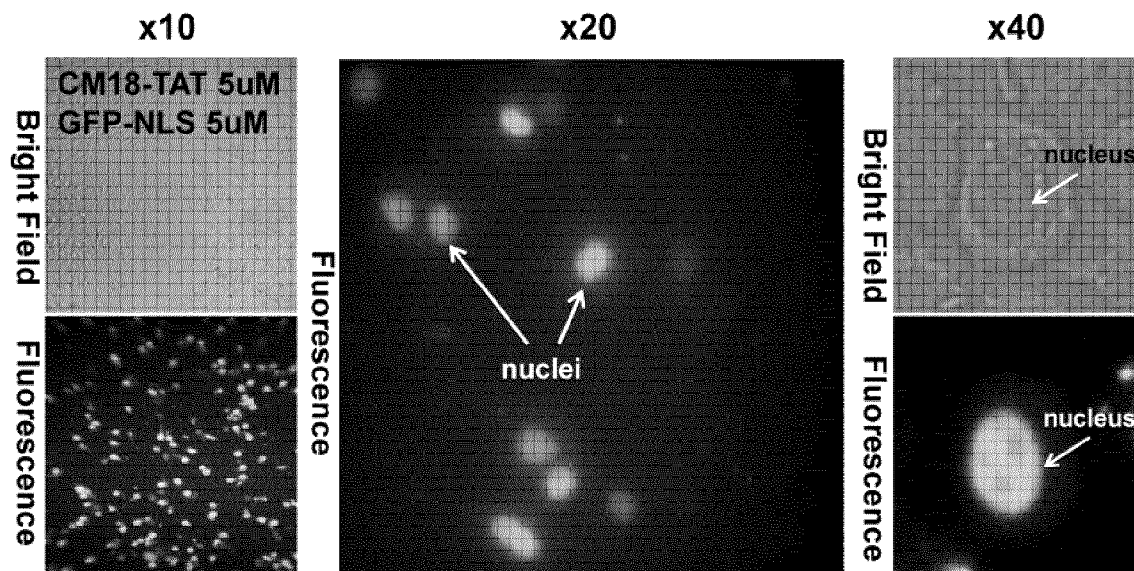


Fig. 13A

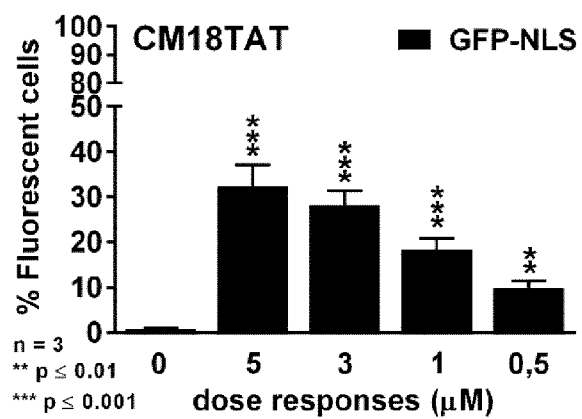


Fig. 13B

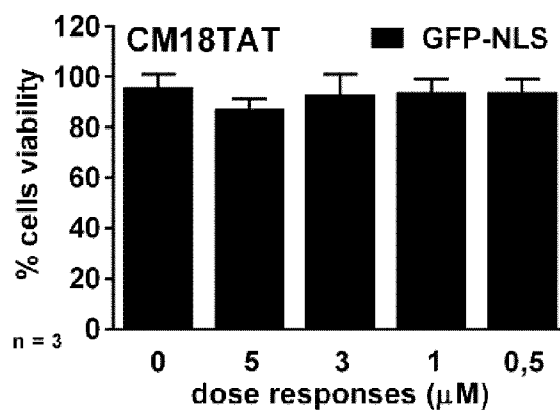


Fig. 14

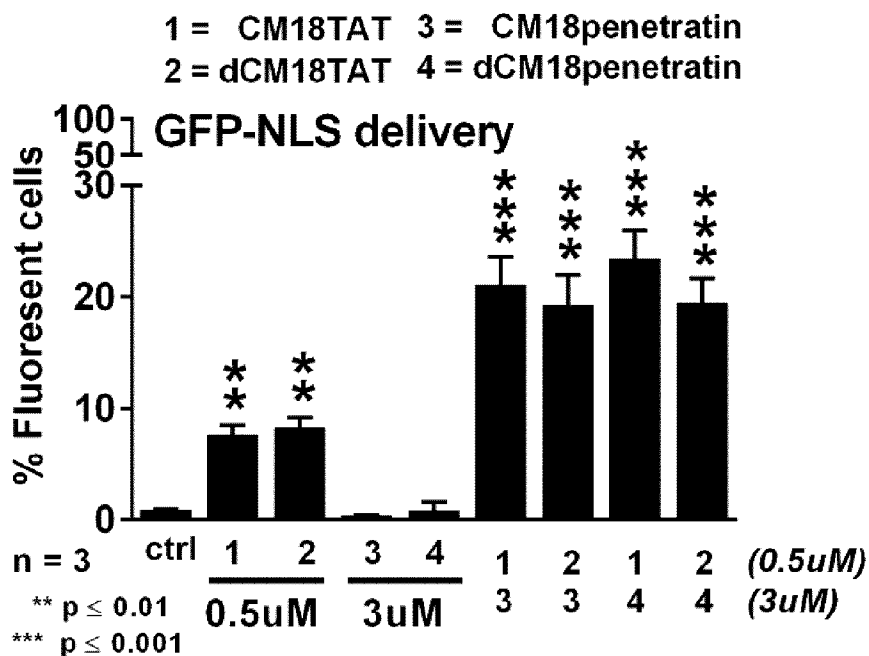


Fig. 15

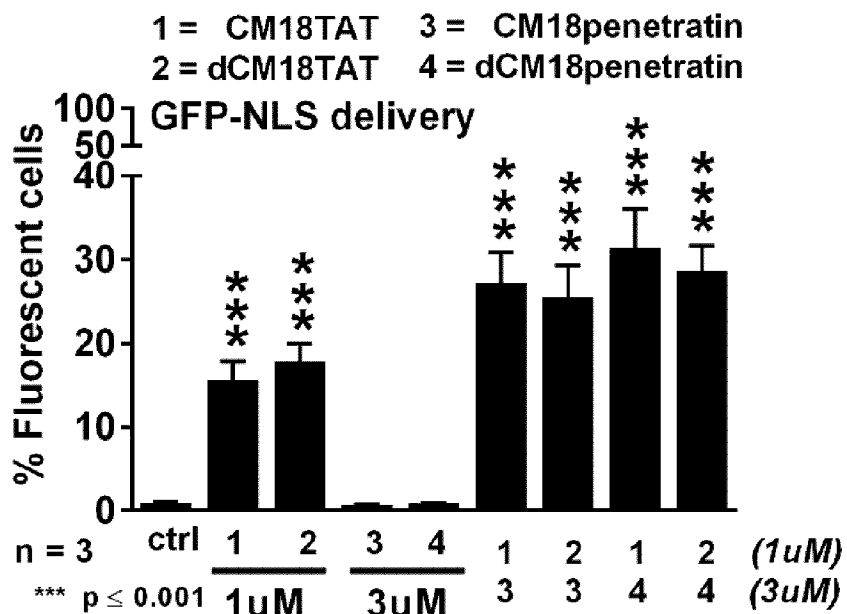


Fig. 16

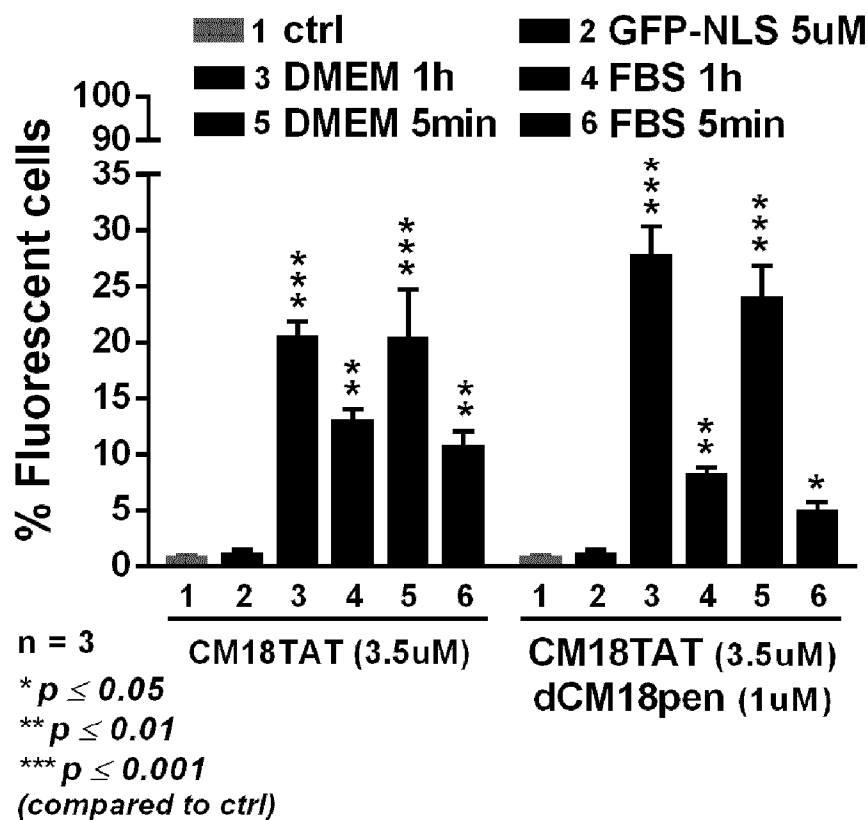


Fig. 17A

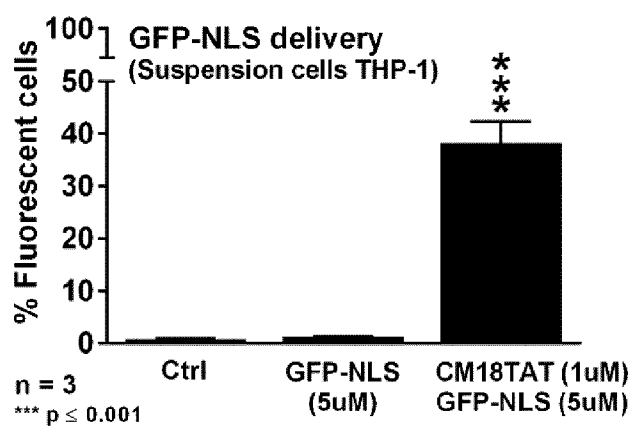


Fig. 17B

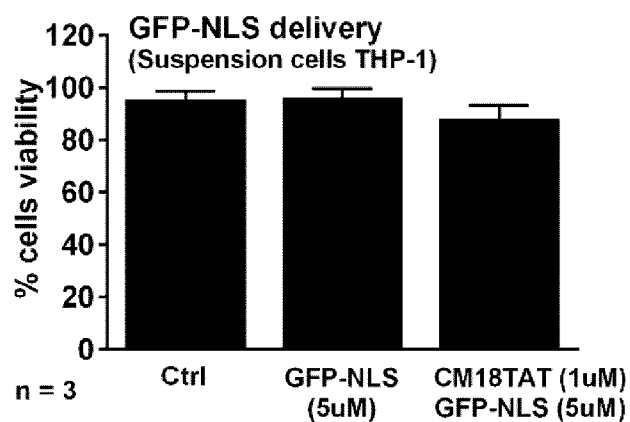


Fig. 18

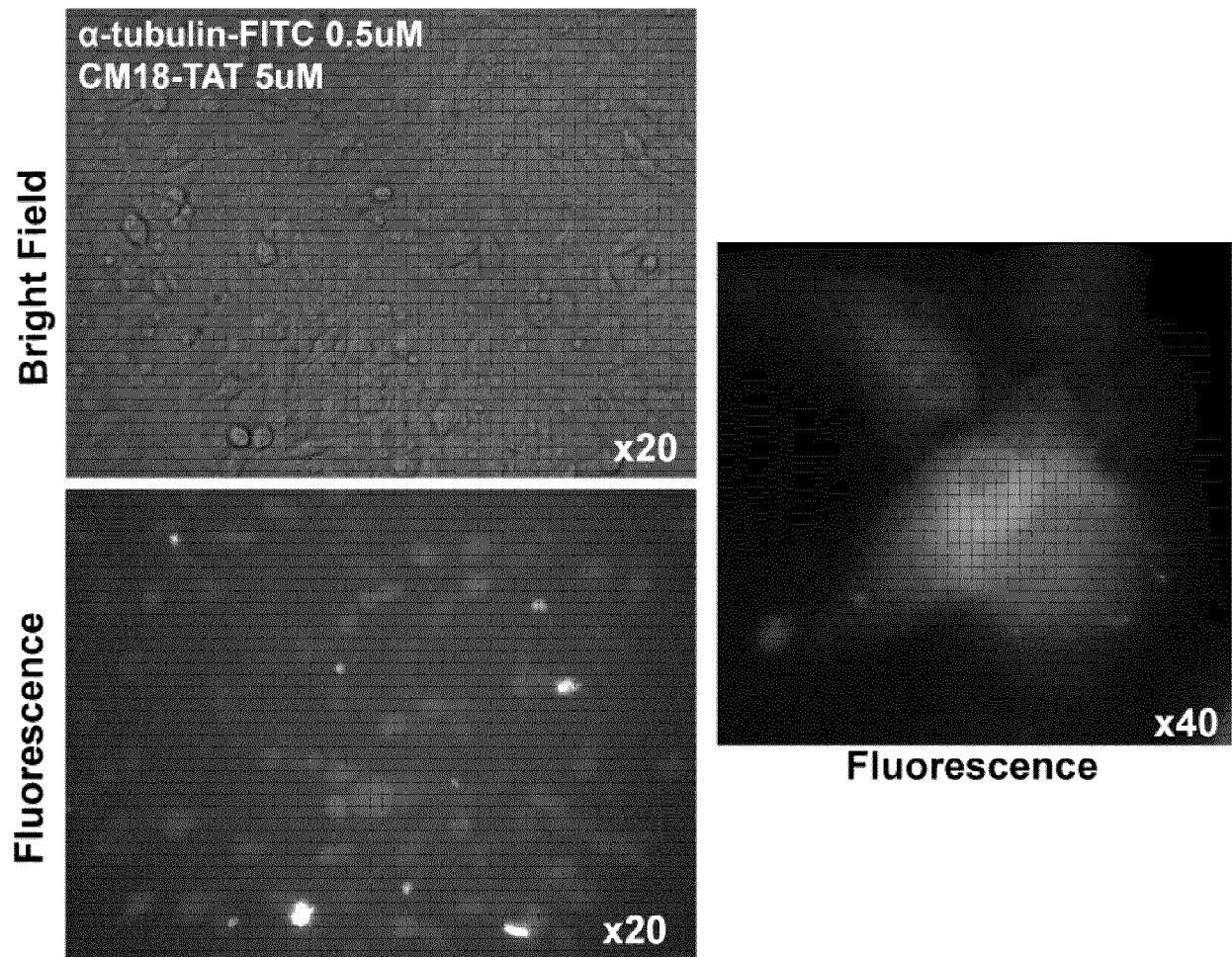


Fig. 19A

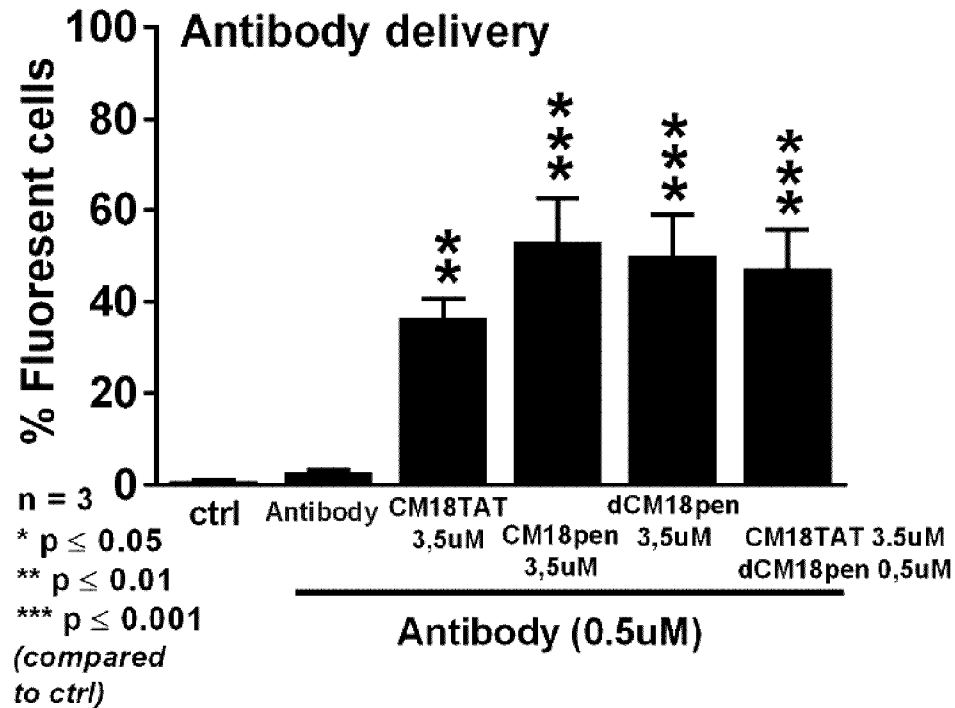


Fig. 19B

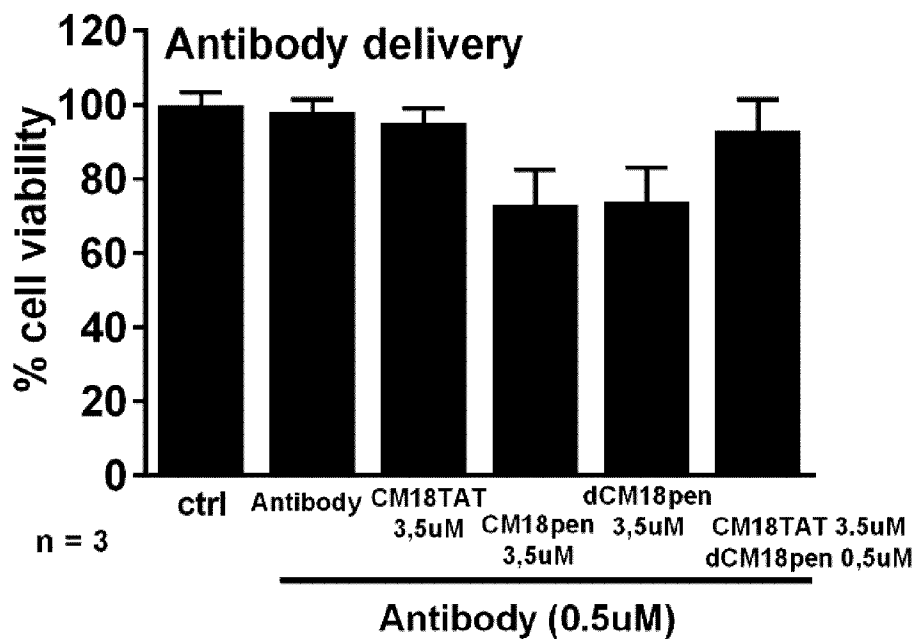


Fig. 20

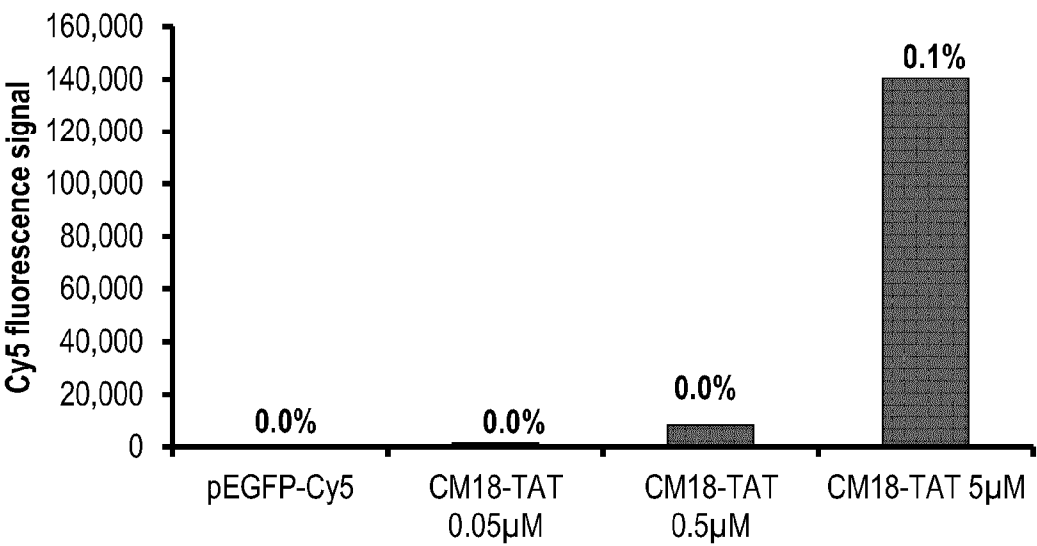


Fig. 21A

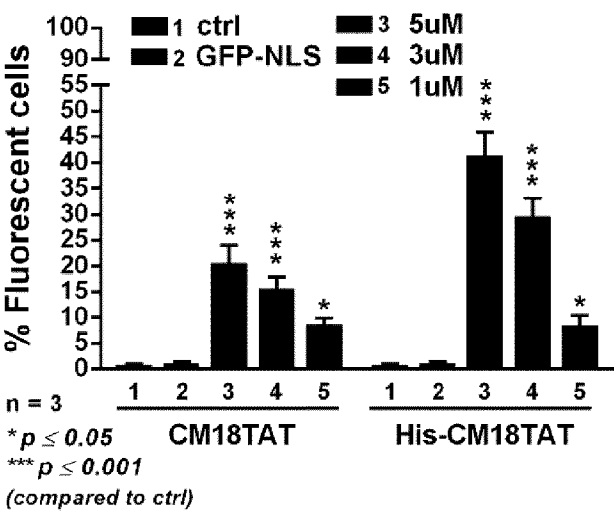


Fig. 21B

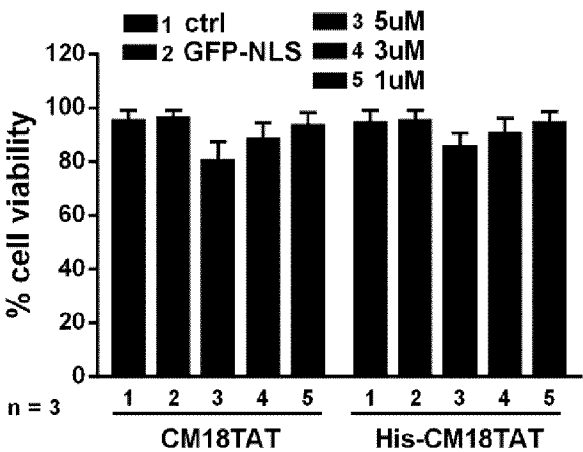


Fig. 22A

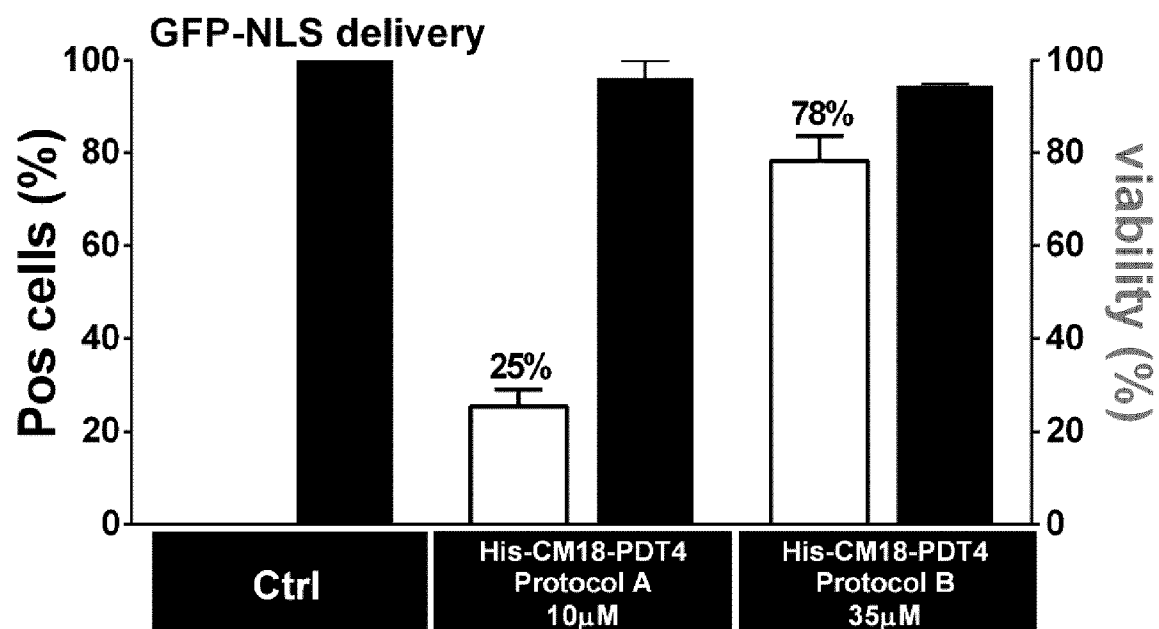


Fig. 22B

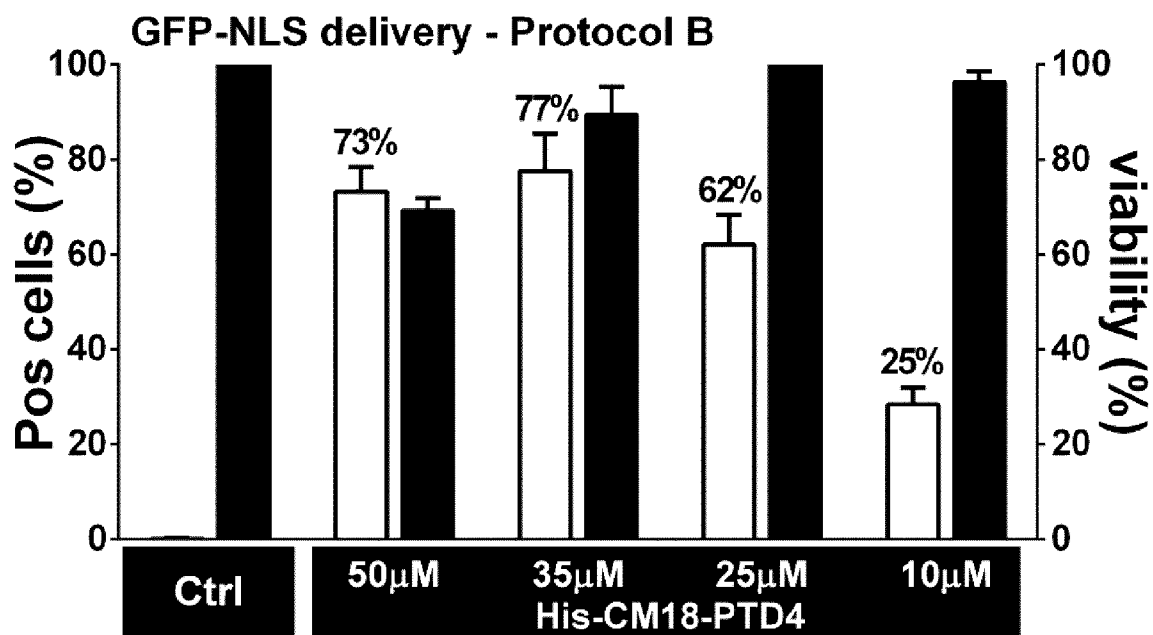


Fig. 23A

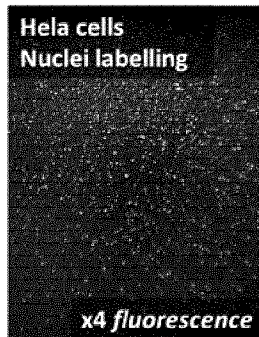


Fig. 23B

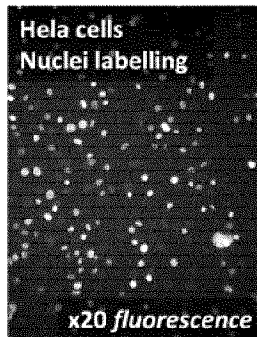


Fig. 23C

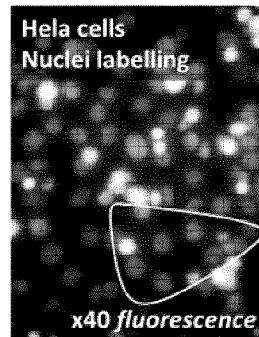


Fig. 23D

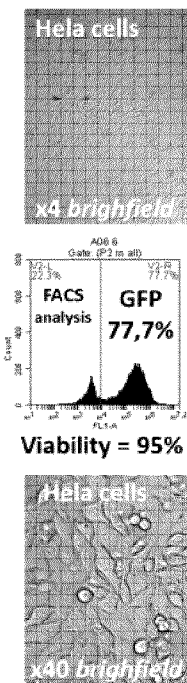


Fig. 24A



Fig. 24B

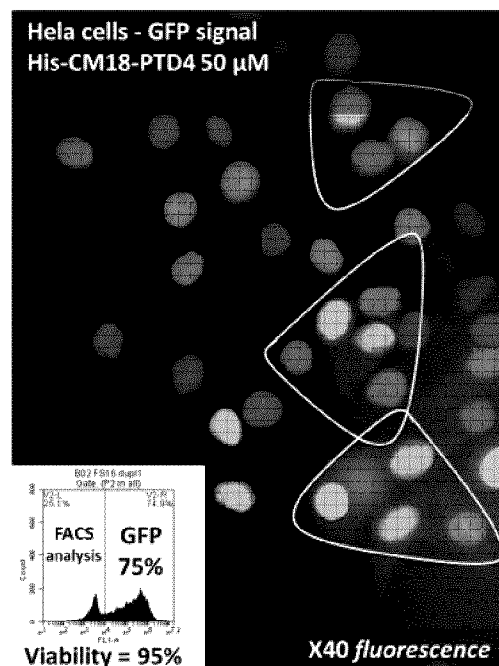


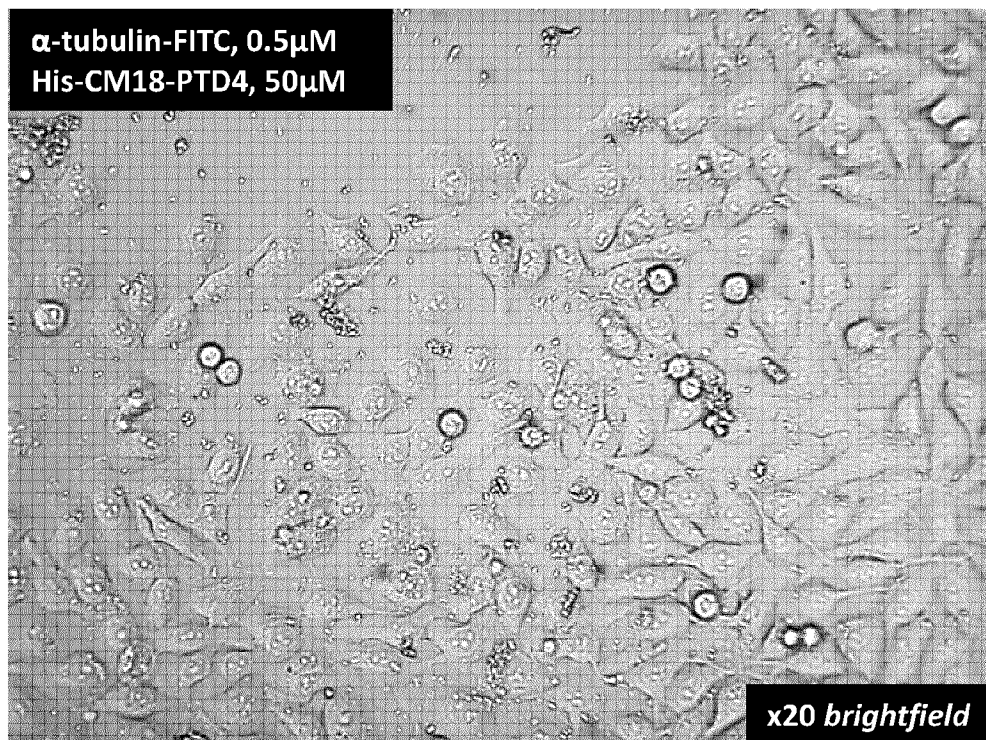
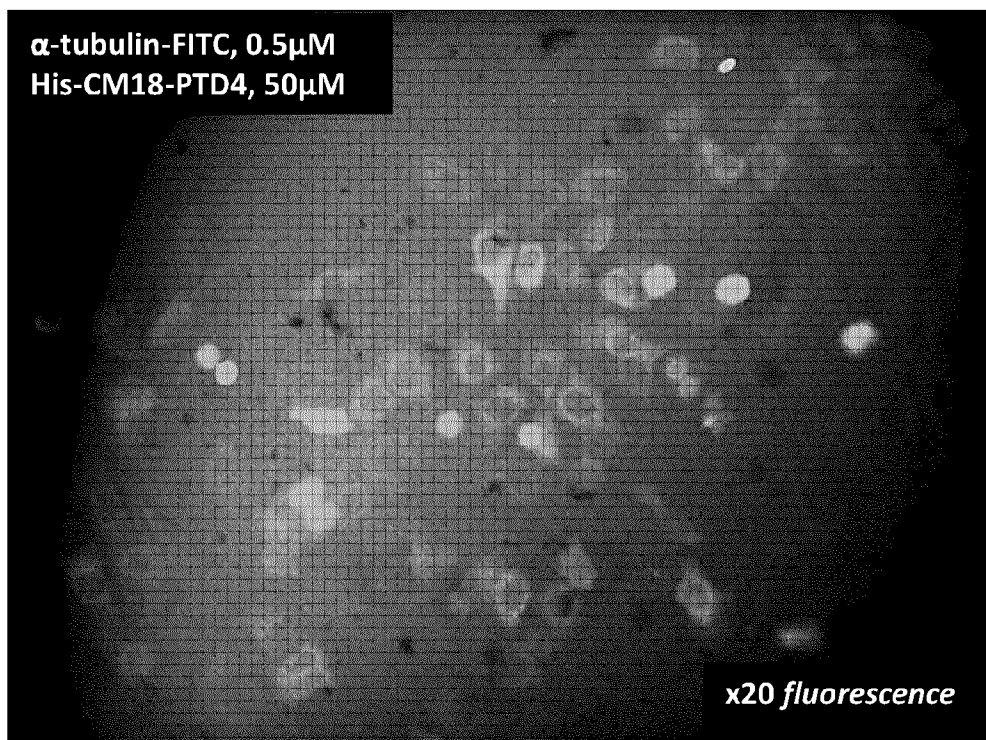
Fig. 24C**Fig. 24D**

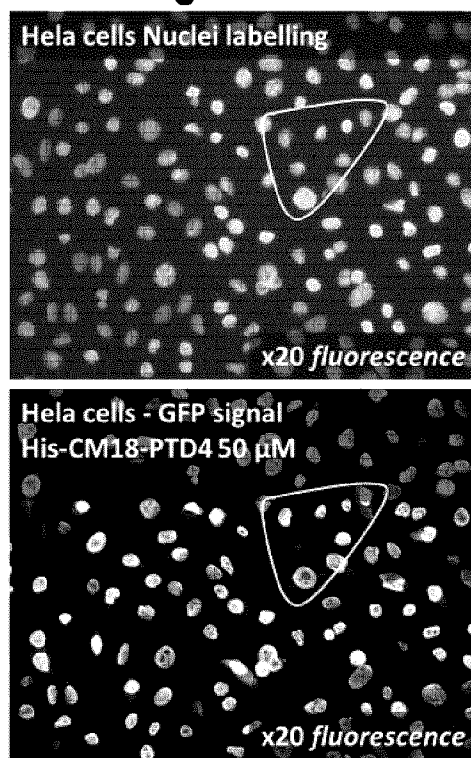
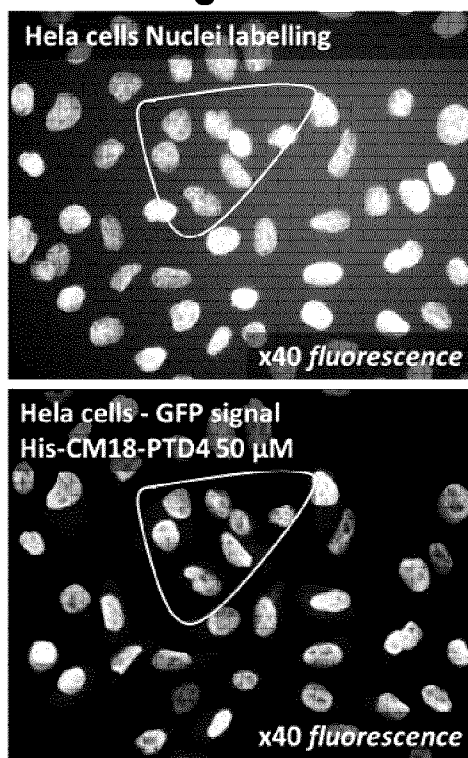
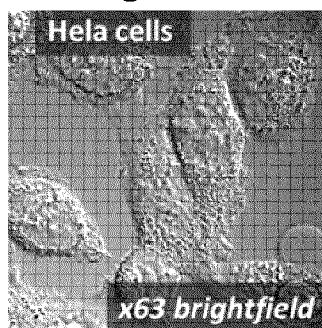
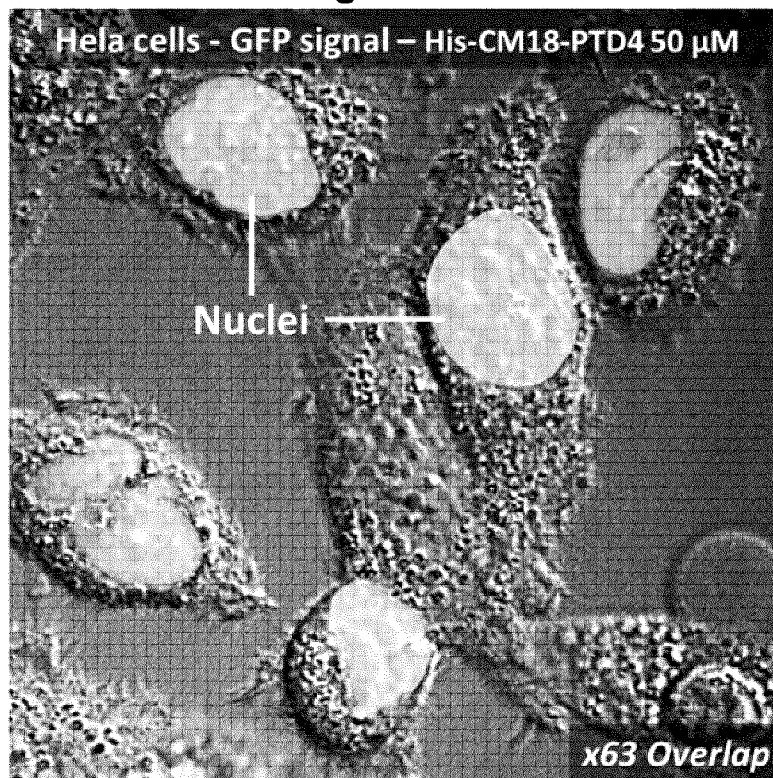
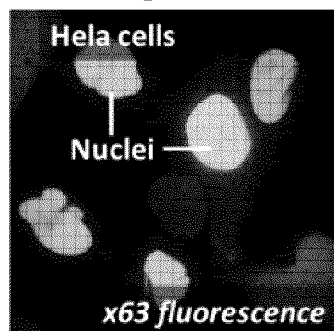
Fig. 25A**Fig. 25B****Fig. 26A****Fig. 26C****Fig. 26B**

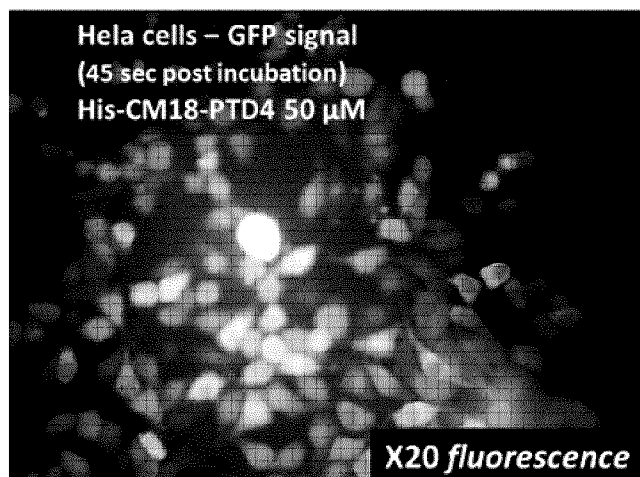
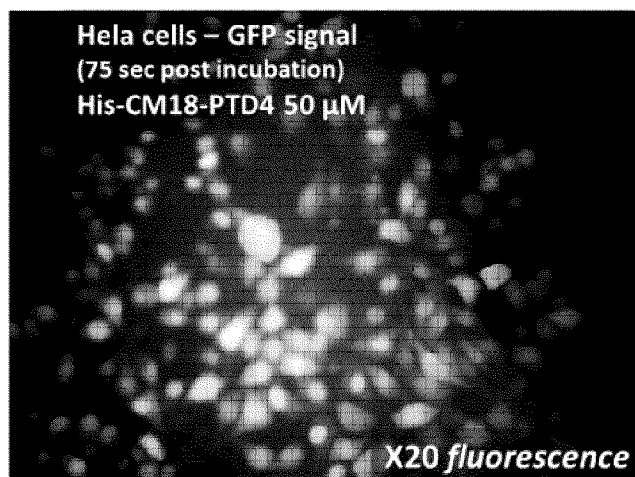
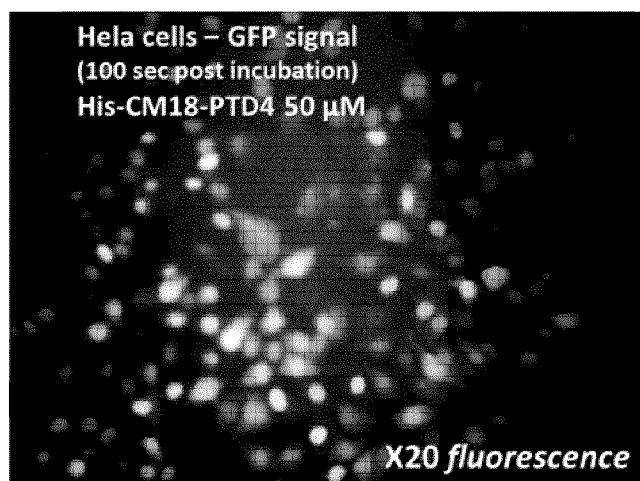
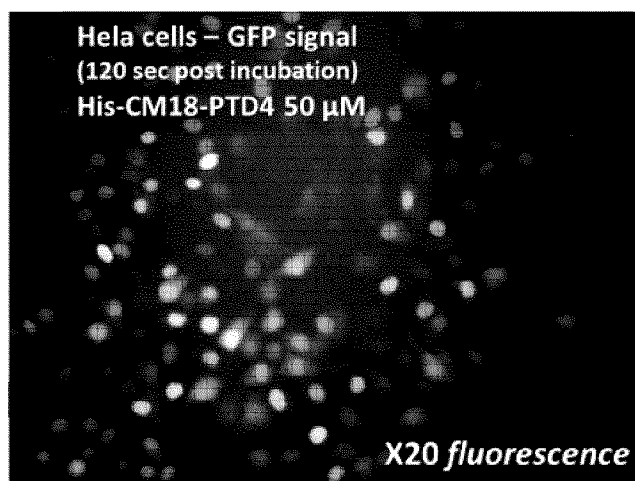
Fig. 27A**Fig. 27B****Fig. 27C****Fig. 27D**

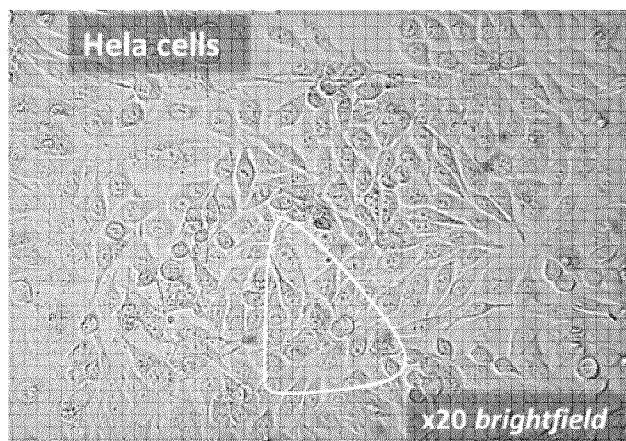
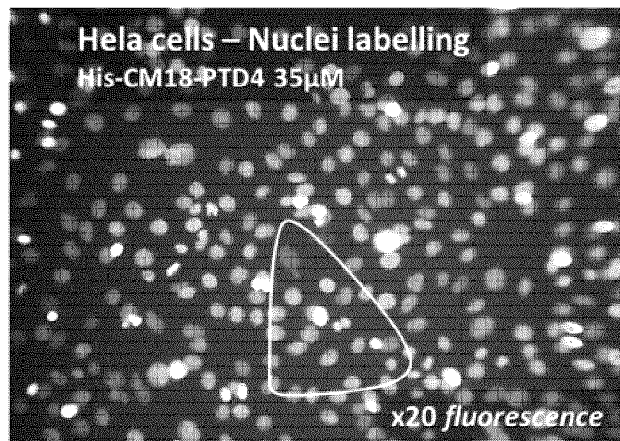
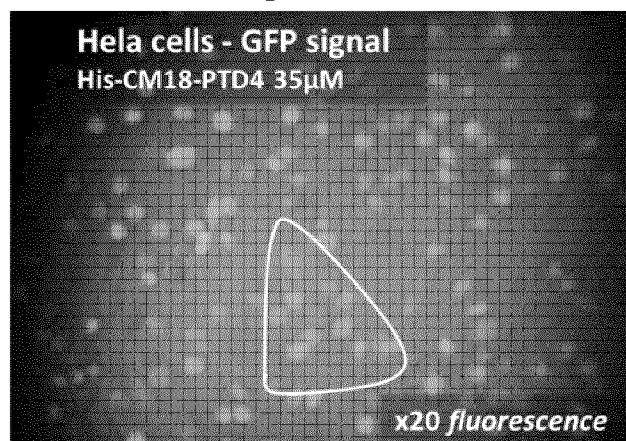
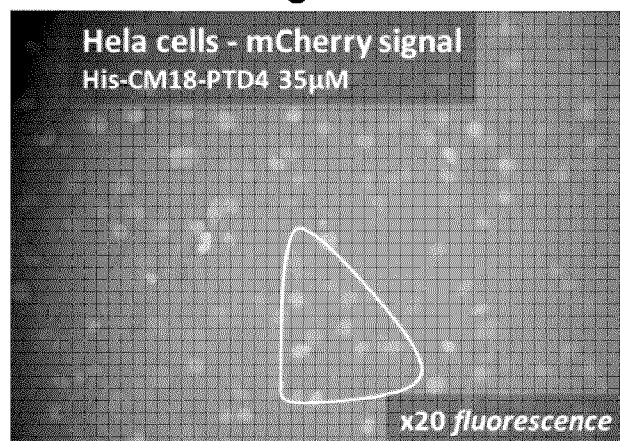
Fig. 28A**Fig. 28B****Fig. 28C****Fig. 28D**

Fig. 29A

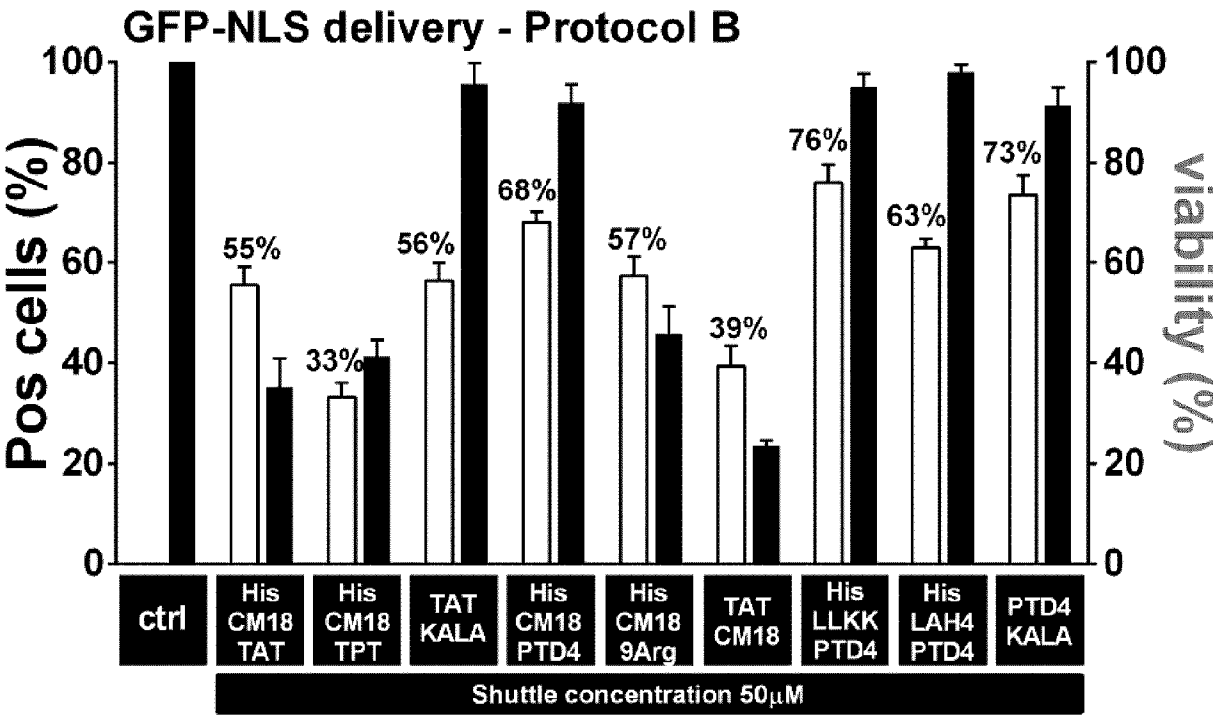


Fig. 29B

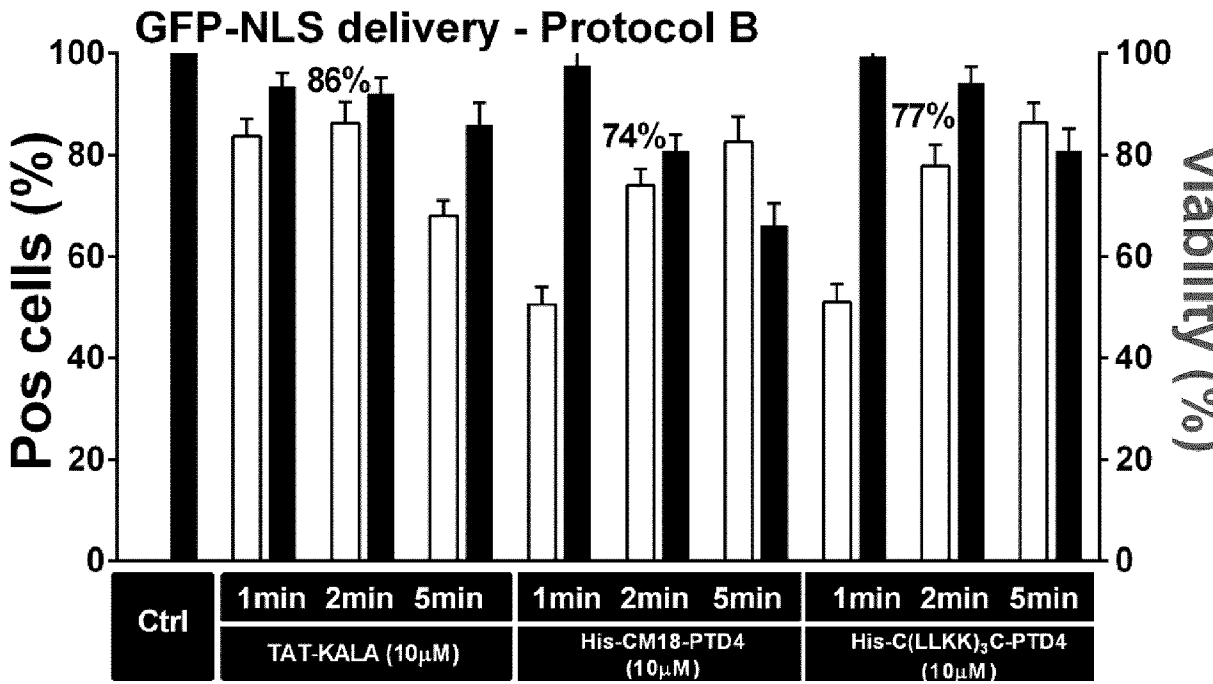


Fig. 29C

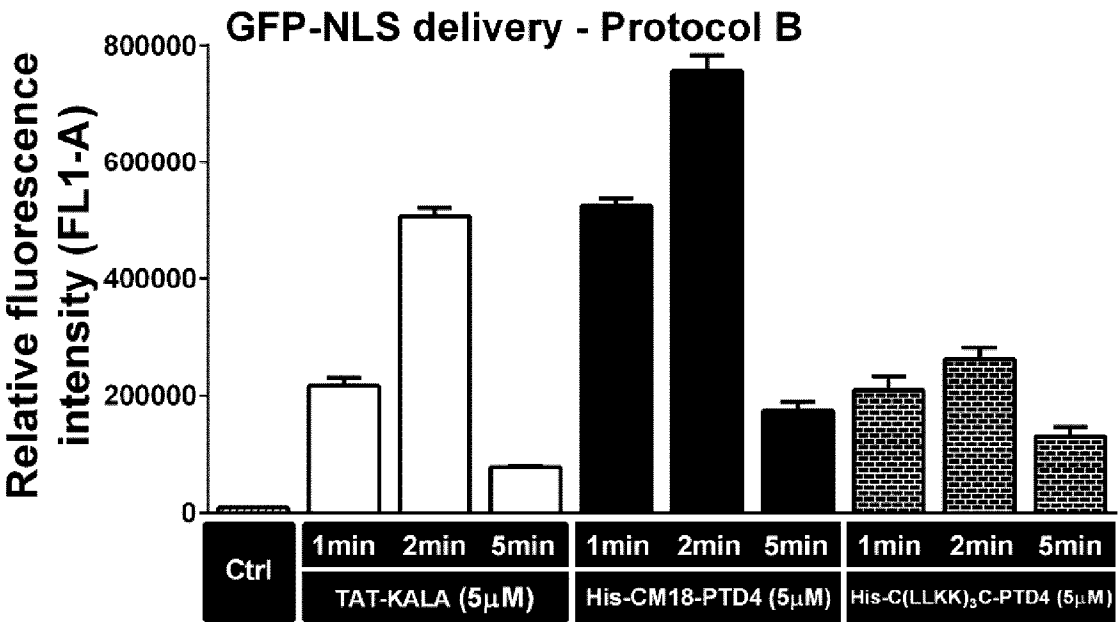


Fig. 29D

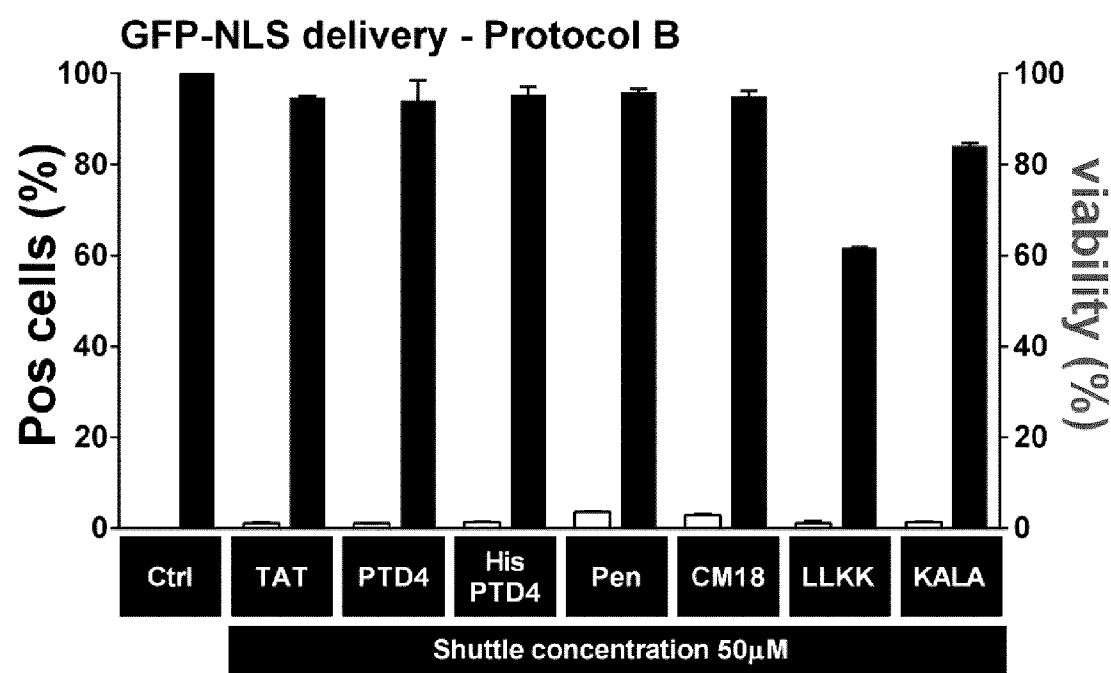


Fig. 29E

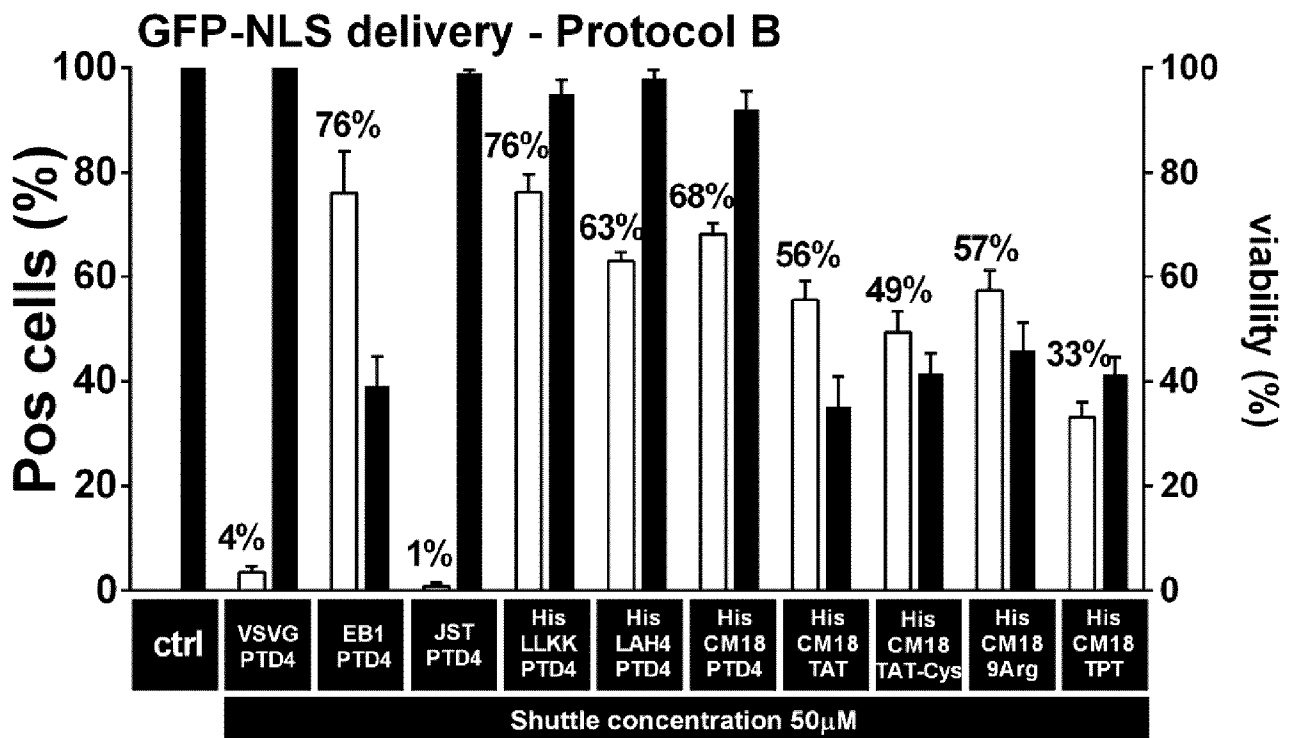


Fig. 29F

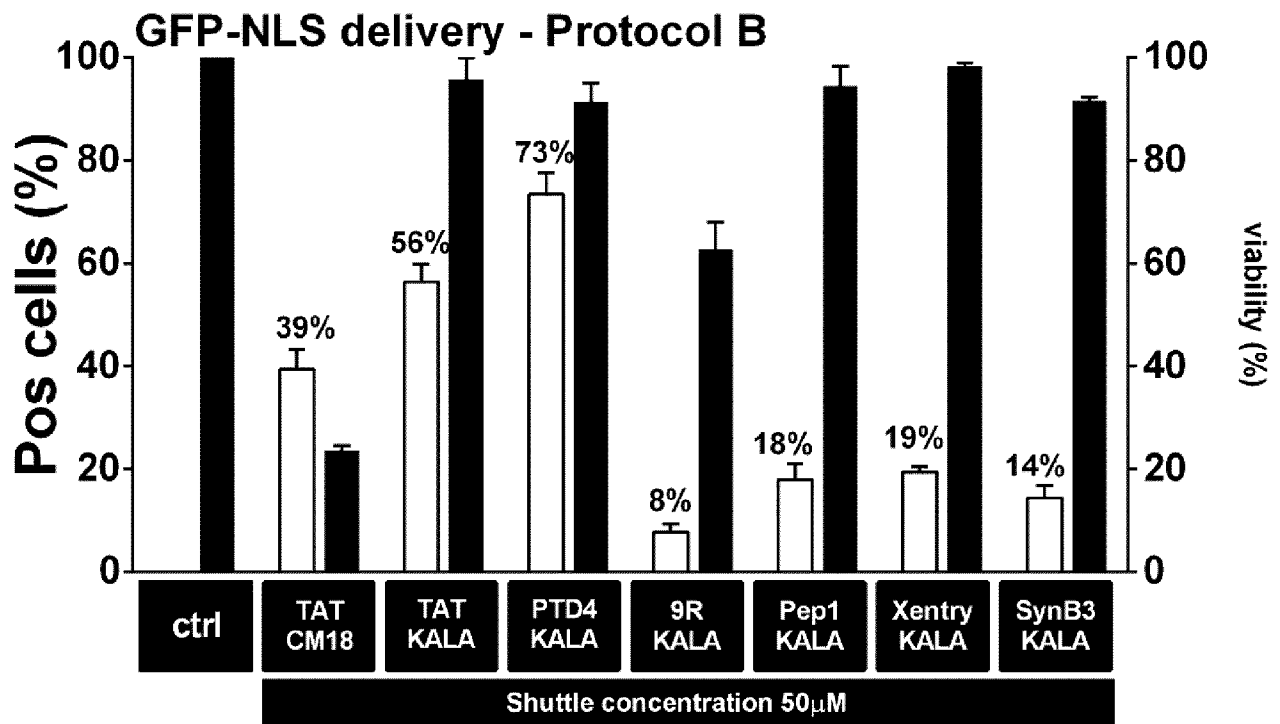


Fig. 29G

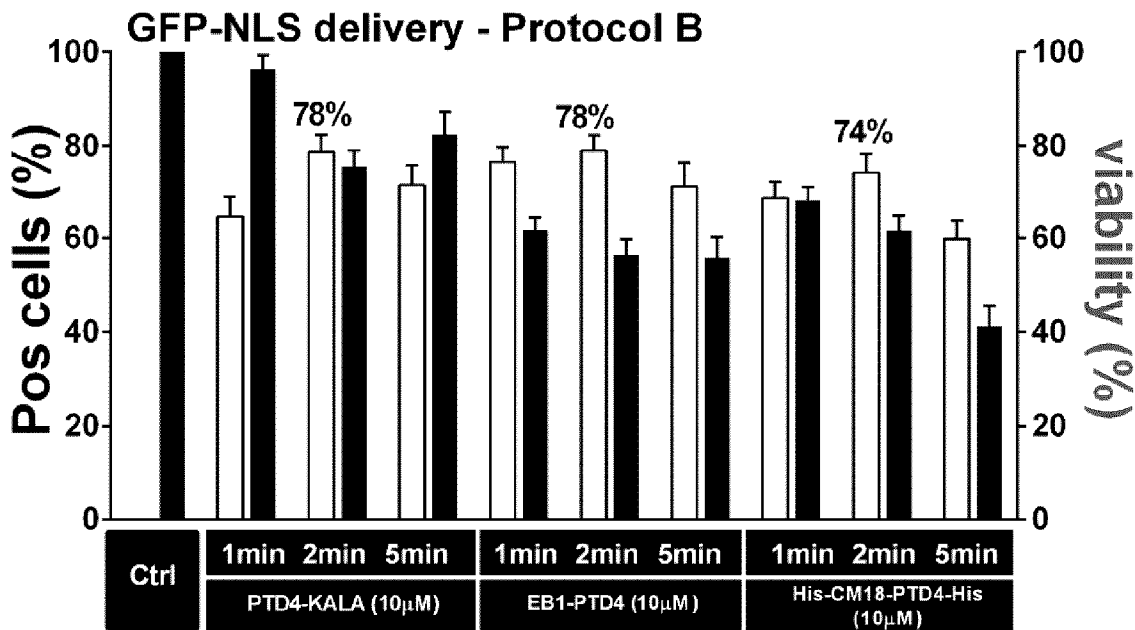


Fig. 29H

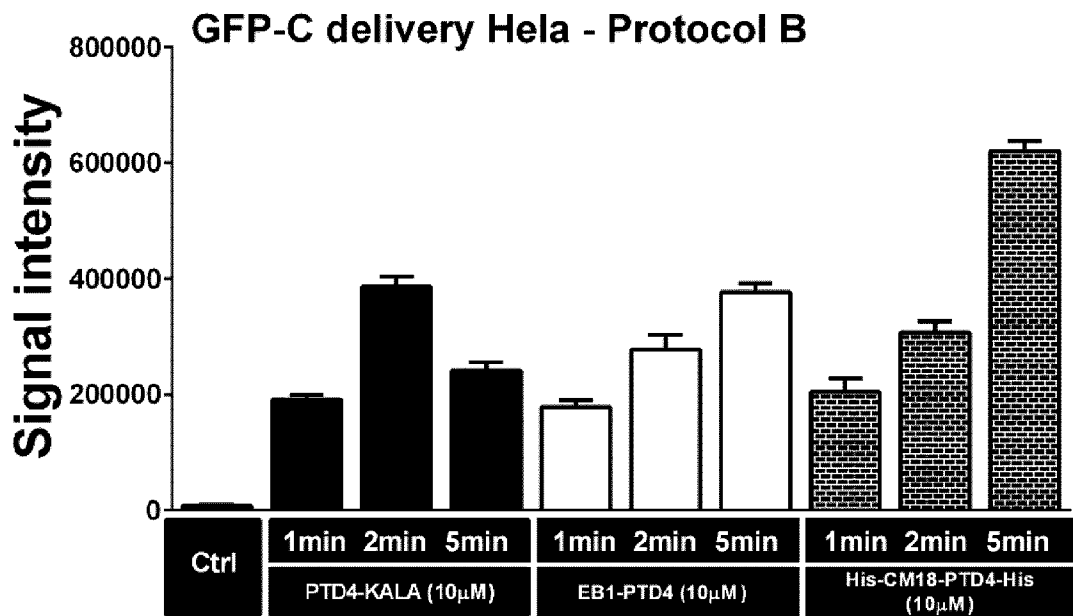


Fig. 29I

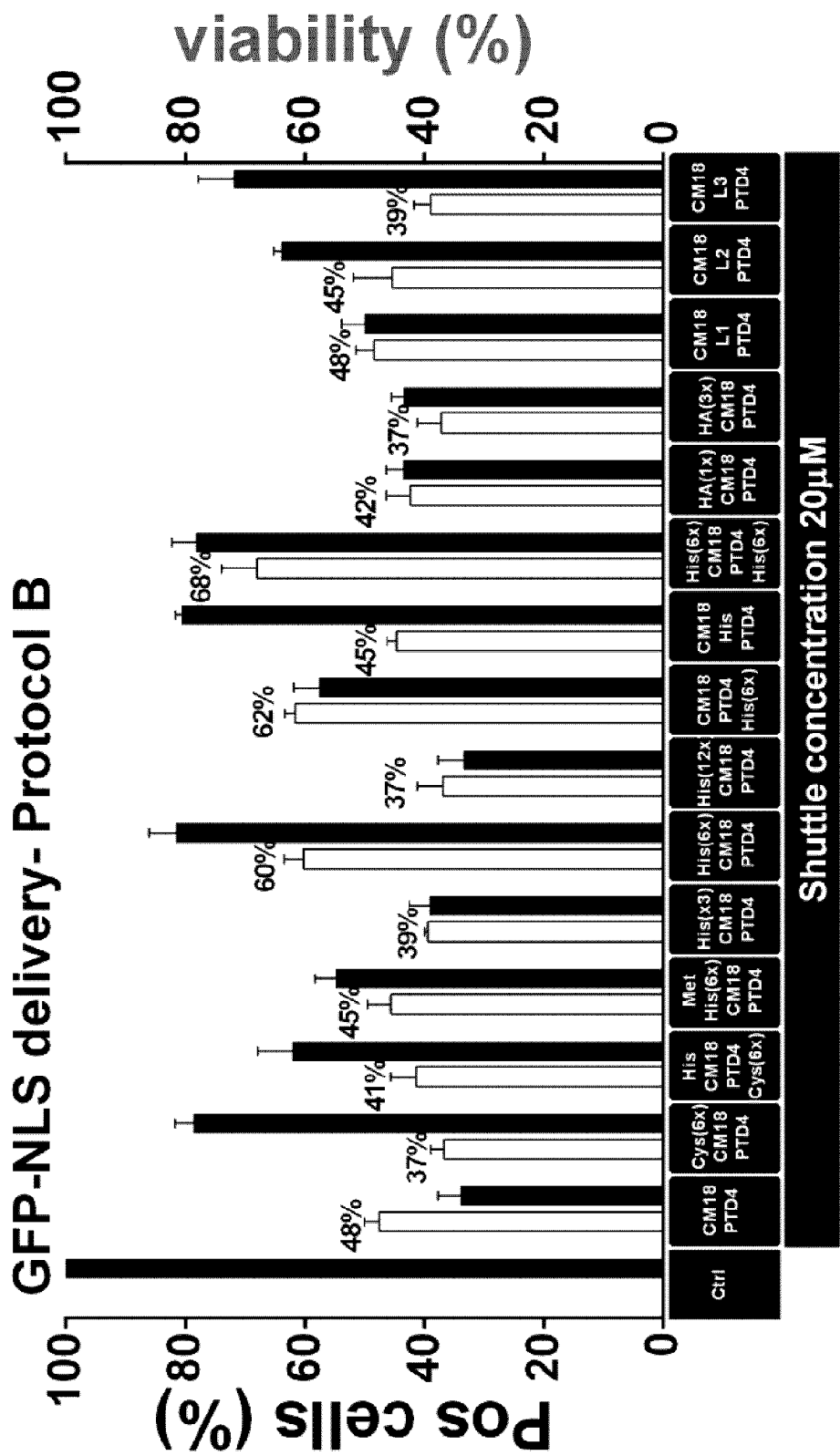


Fig. 30A

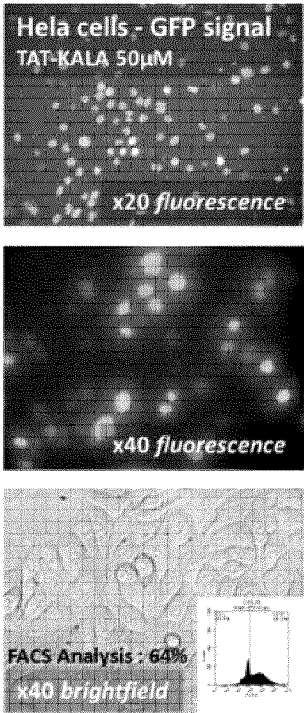


Fig. 30B

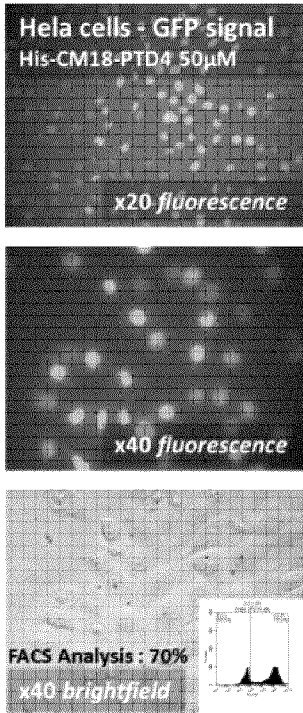


Fig. 30C

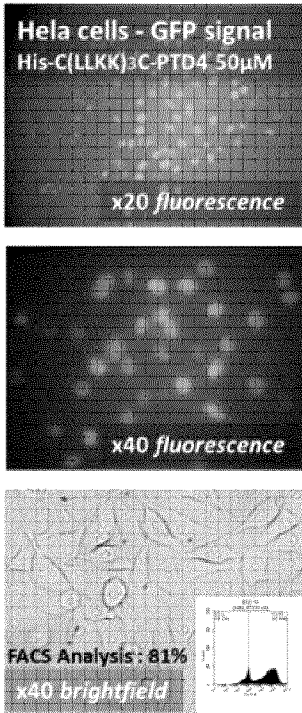


Fig. 30D

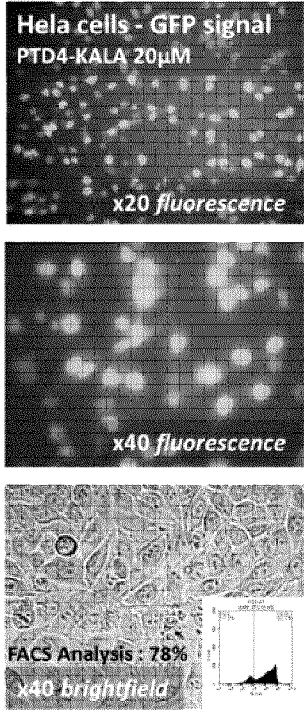


Fig. 30E

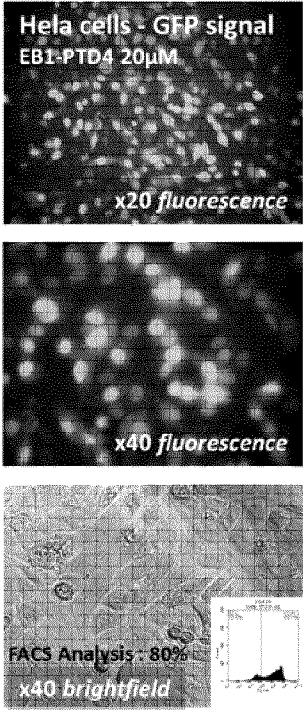


Fig. 30F

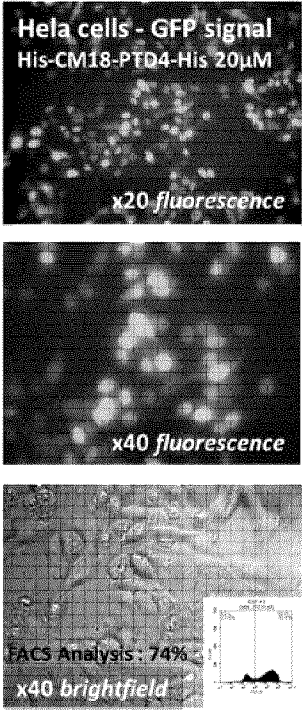


Fig. 31

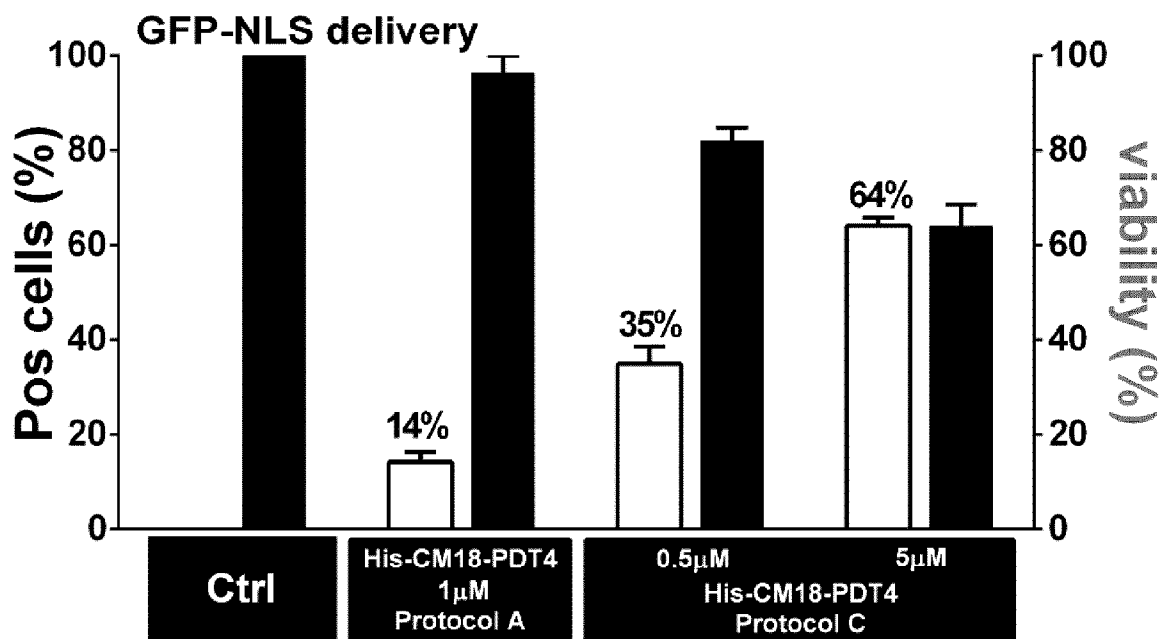


Fig. 32A

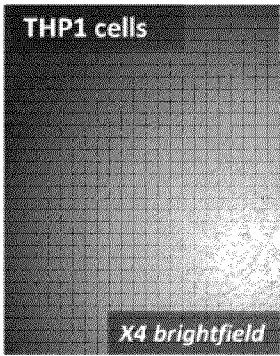
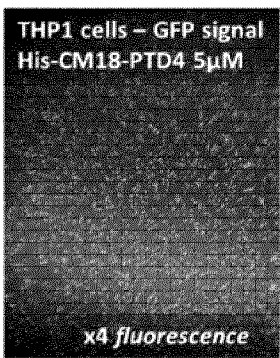


Fig. 32B

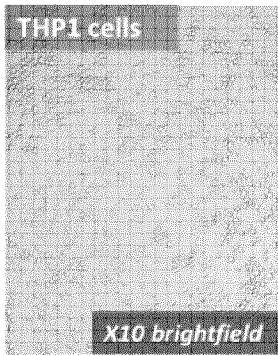
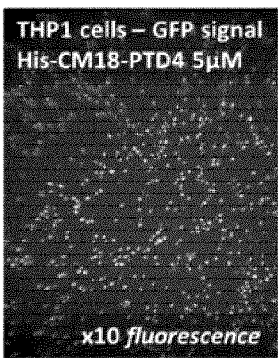


Fig. 32C

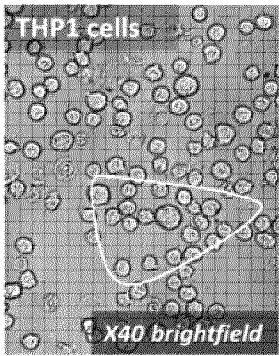
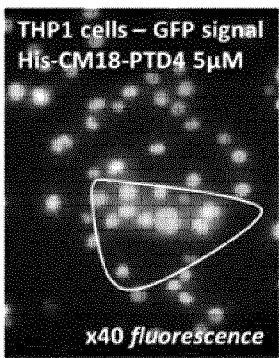


Fig. 32D

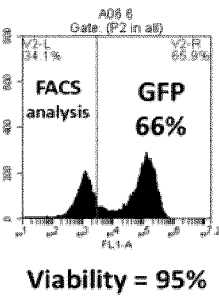


Fig. 33A

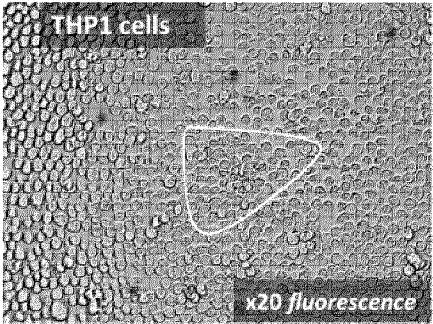


Fig. 33C

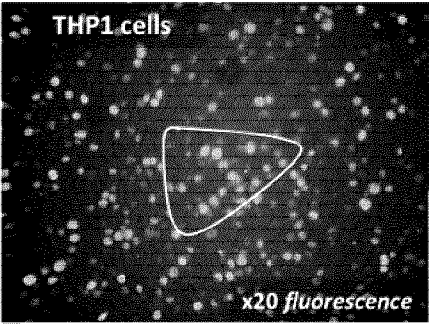


Fig. 33B

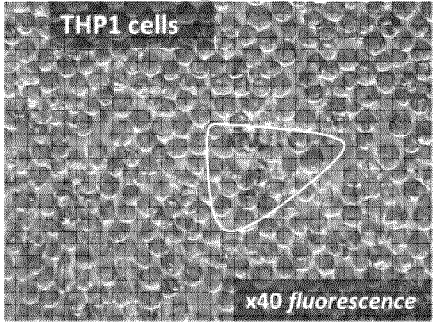


Fig. 33D

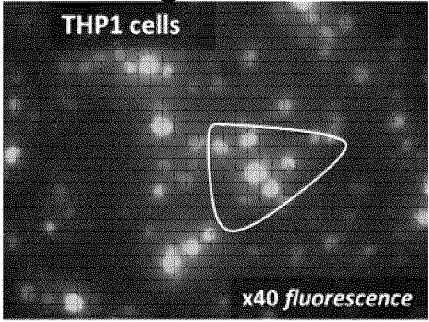
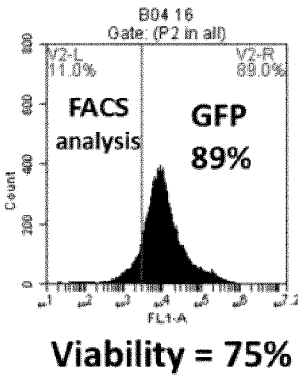


Fig. 34A

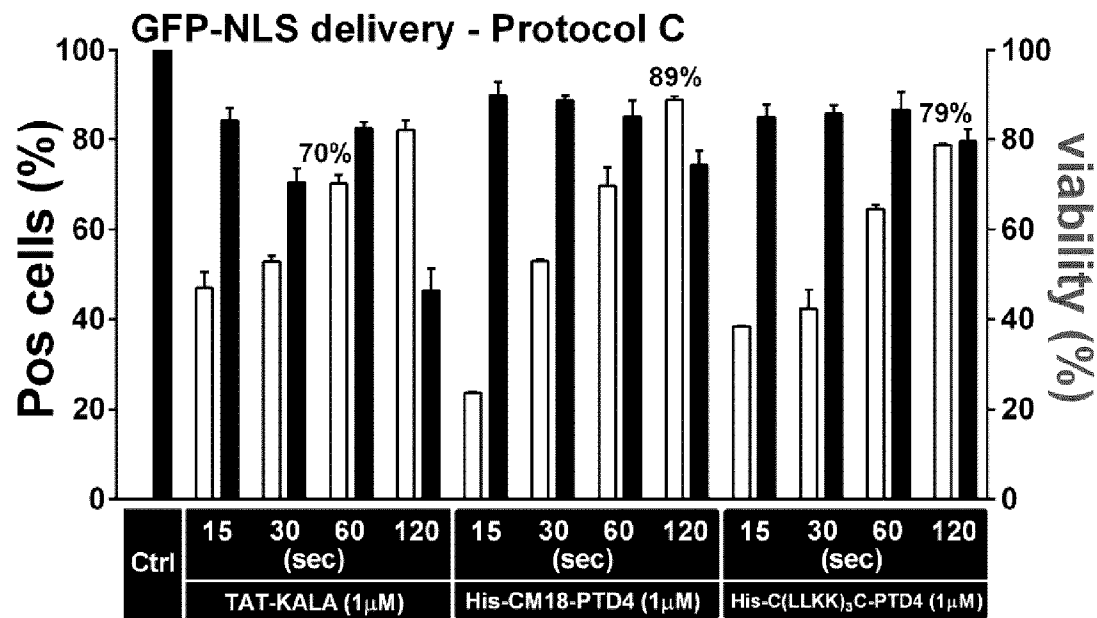


Fig. 34B

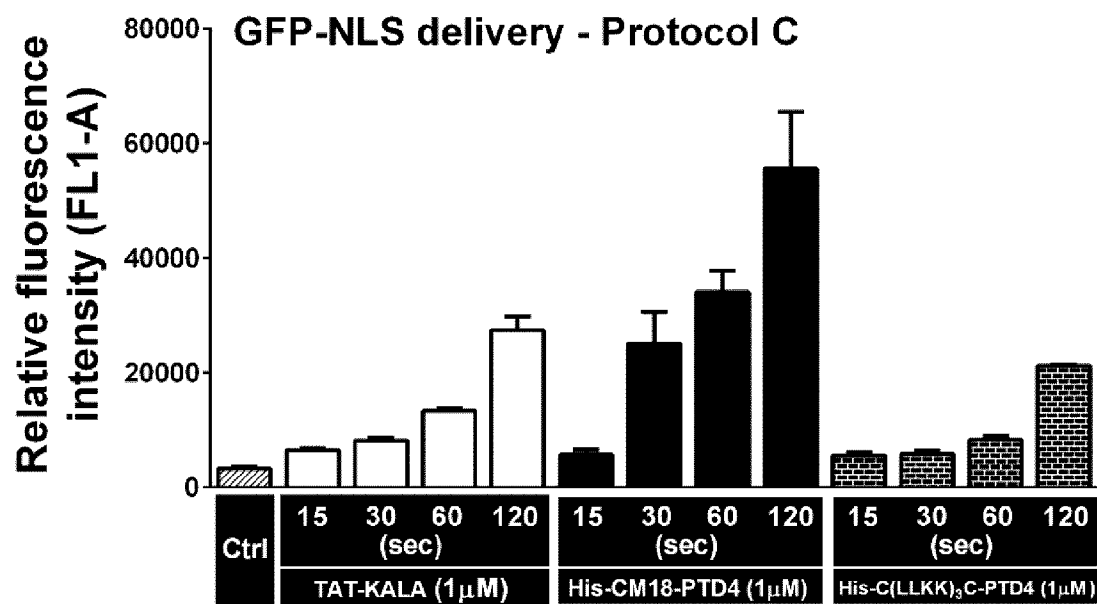


Fig. 35A

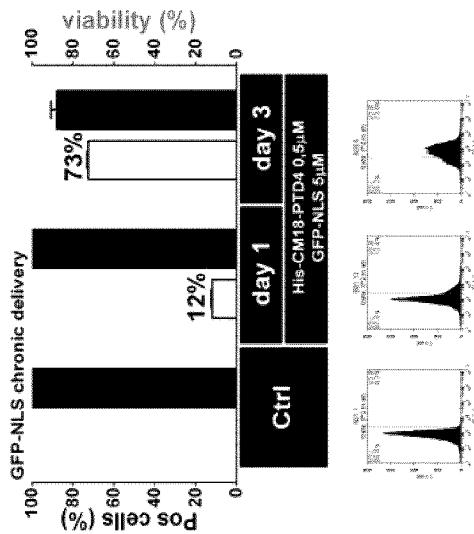


Fig. 35B

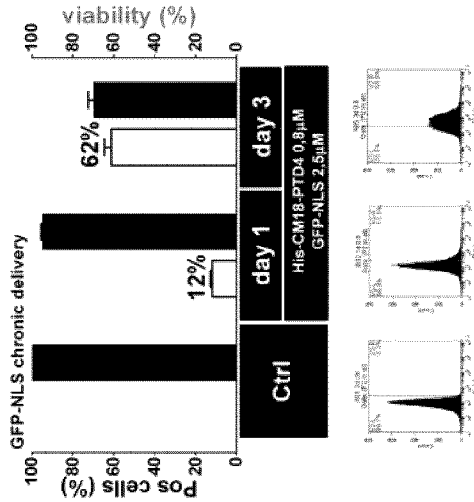


Fig. 35C

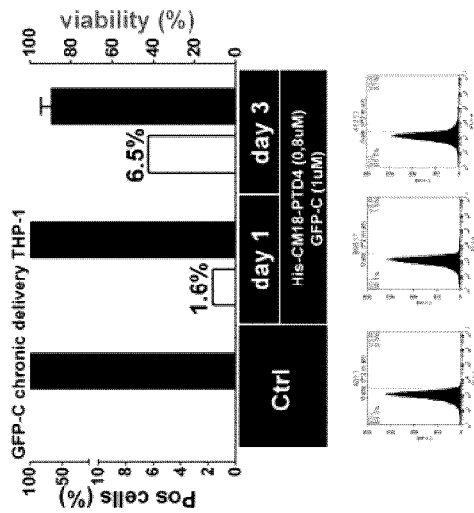


Fig. 35D

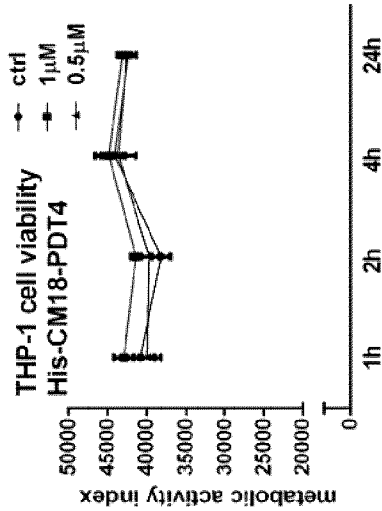


Fig. 35E

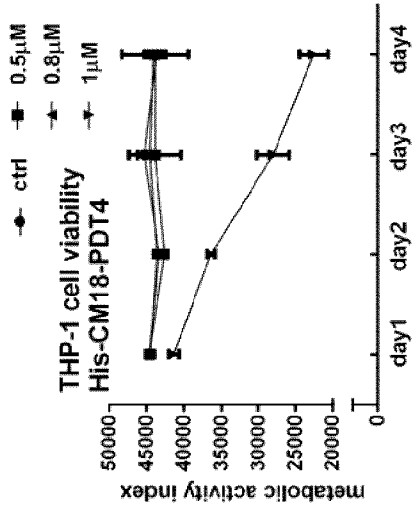


Fig. 35F

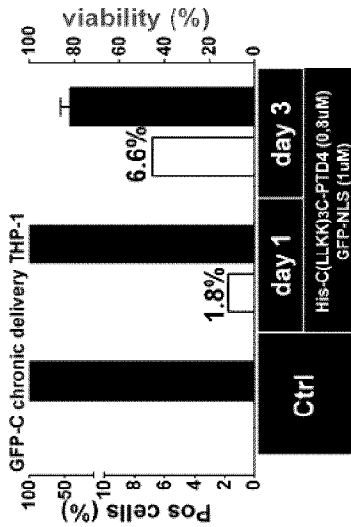


Fig. 36

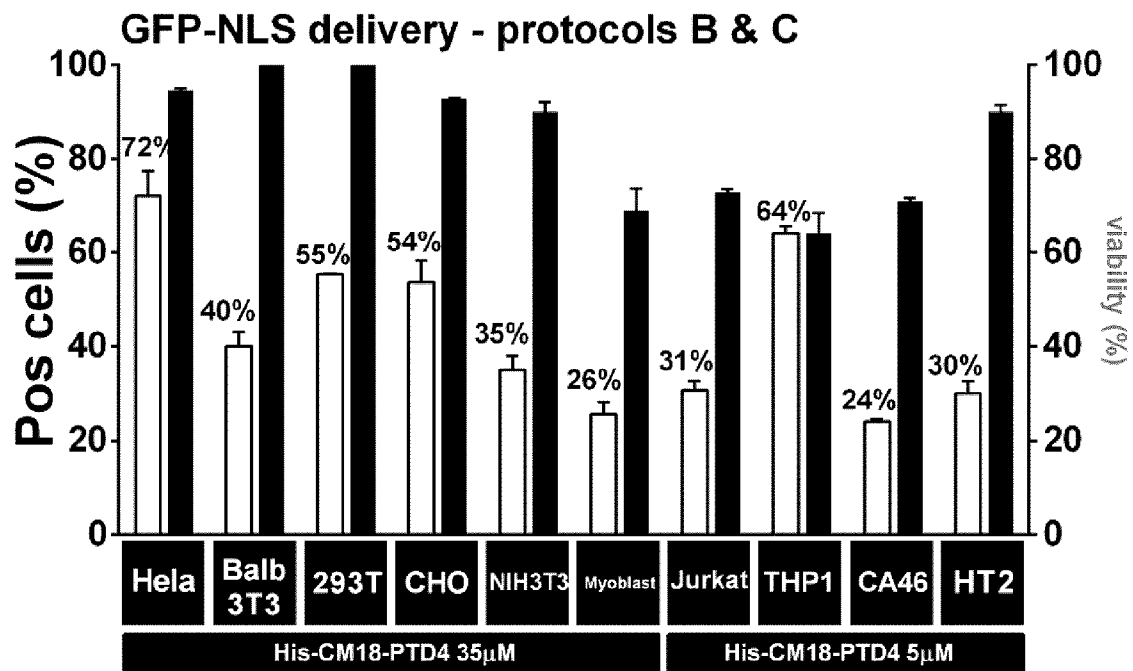


Fig. 37A

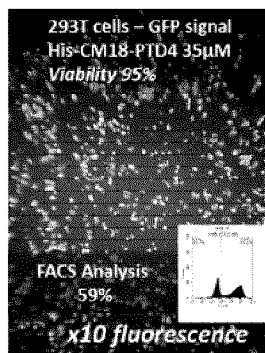


Fig. 37B

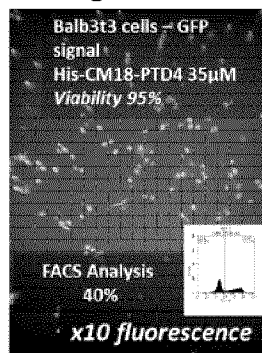


Fig. 37C

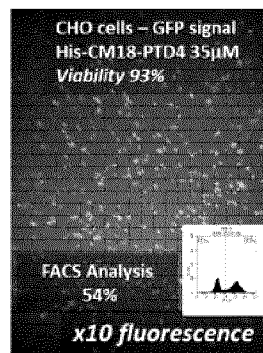


Fig. 37D

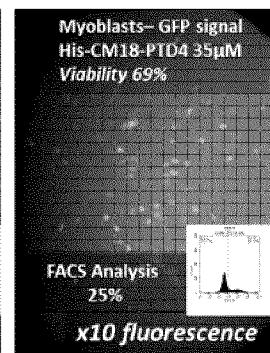


Fig. 37E

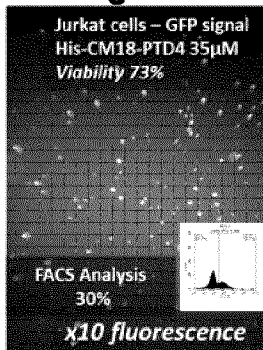


Fig. 37F

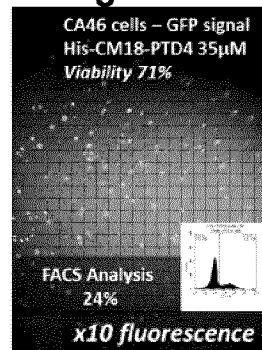


Fig. 37G

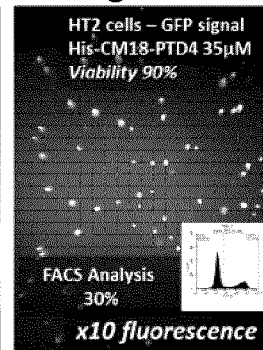


Fig. 37H

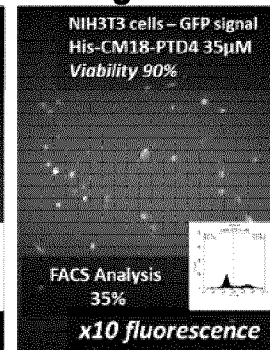


Fig. 38A

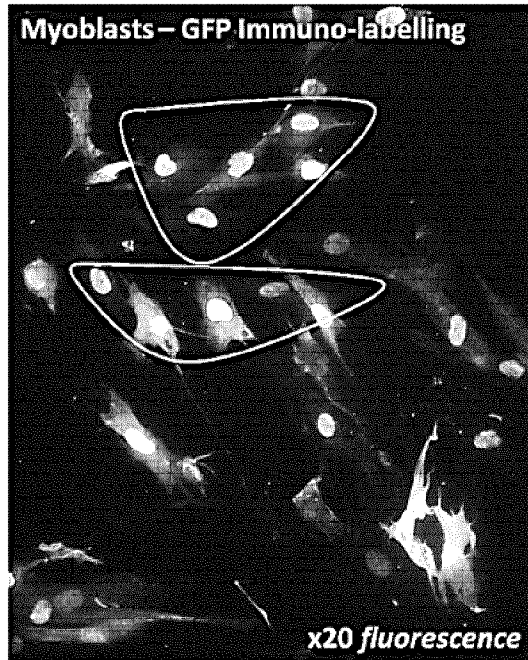


Fig. 38B

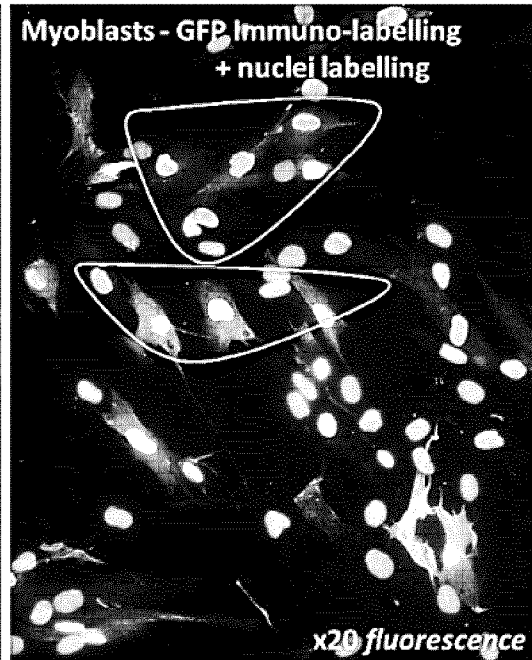


Fig. 39A

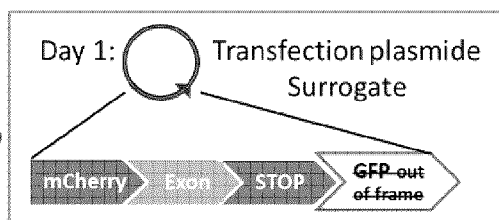


Fig. 39B

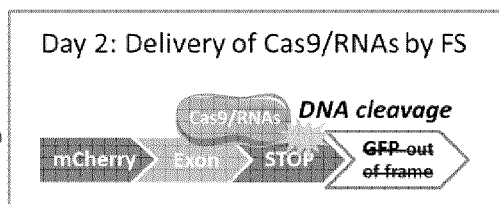


Fig. 39C

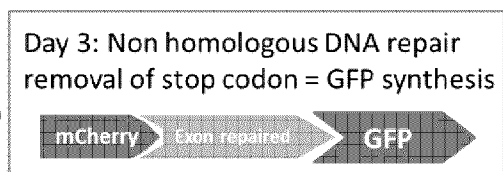


Fig. 39D

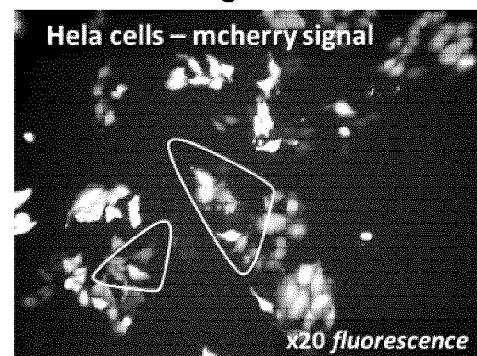
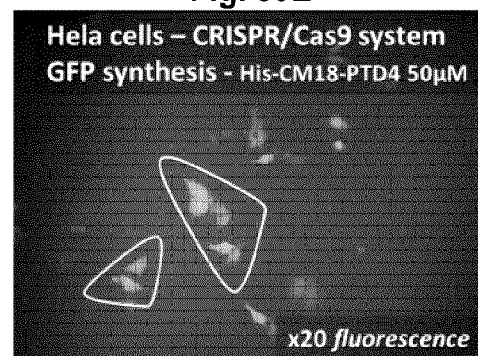


Fig. 39E



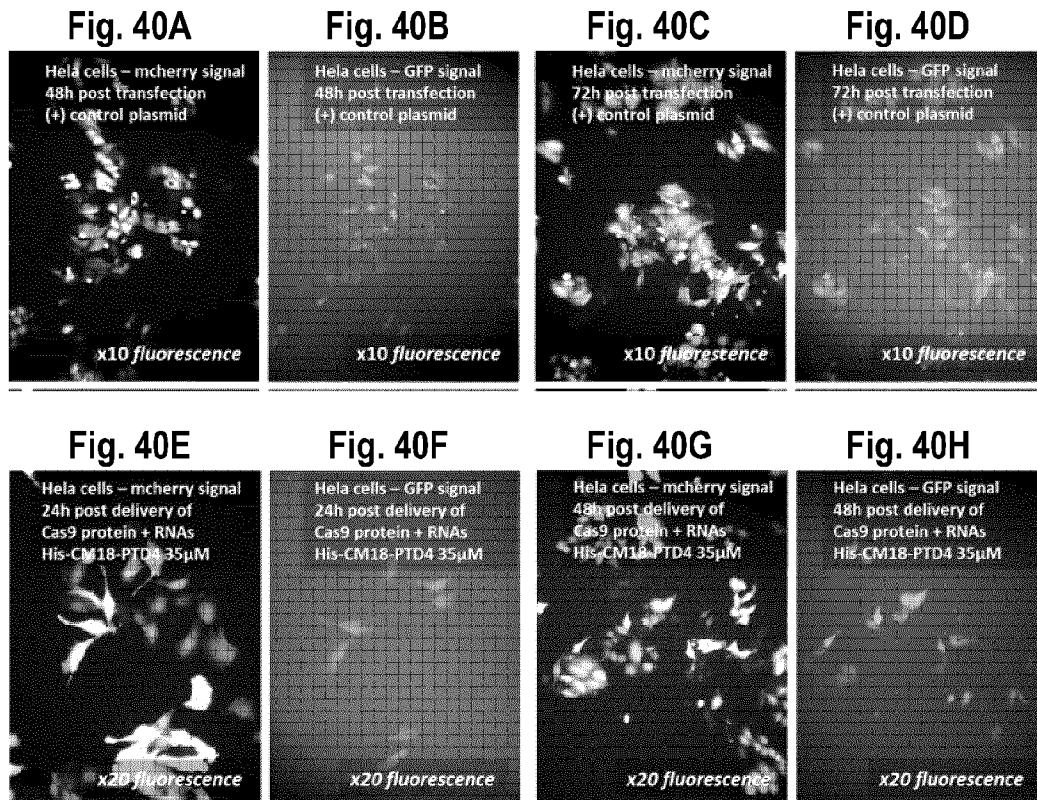
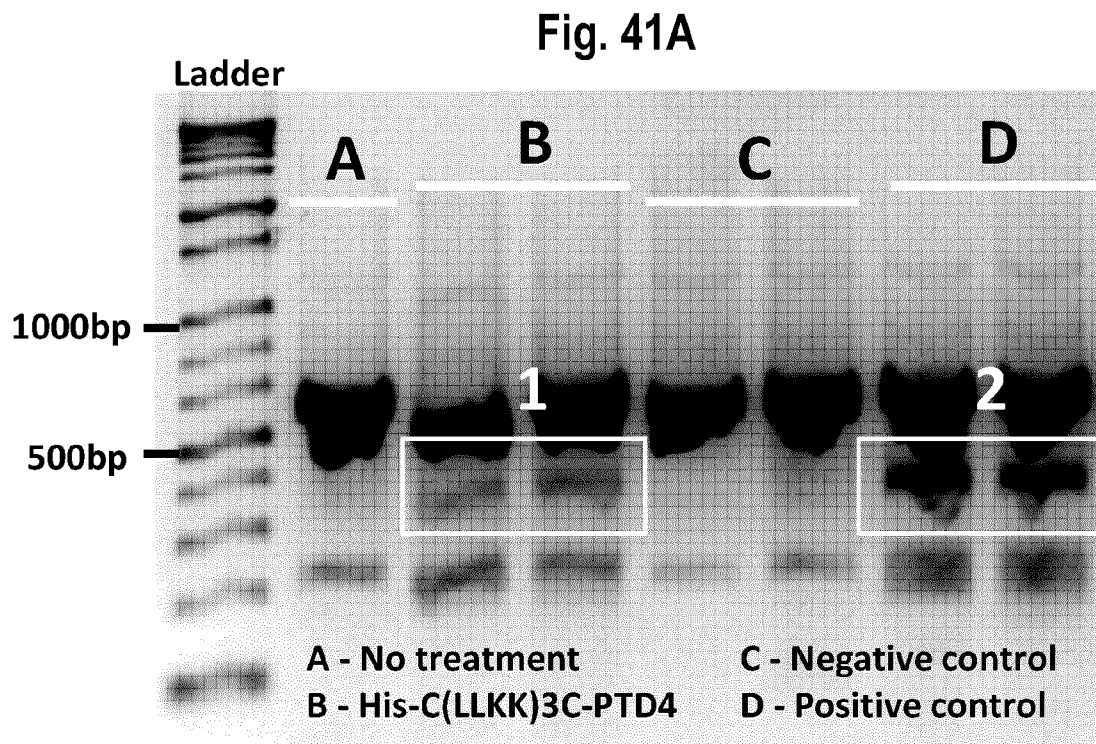


Fig. 41B

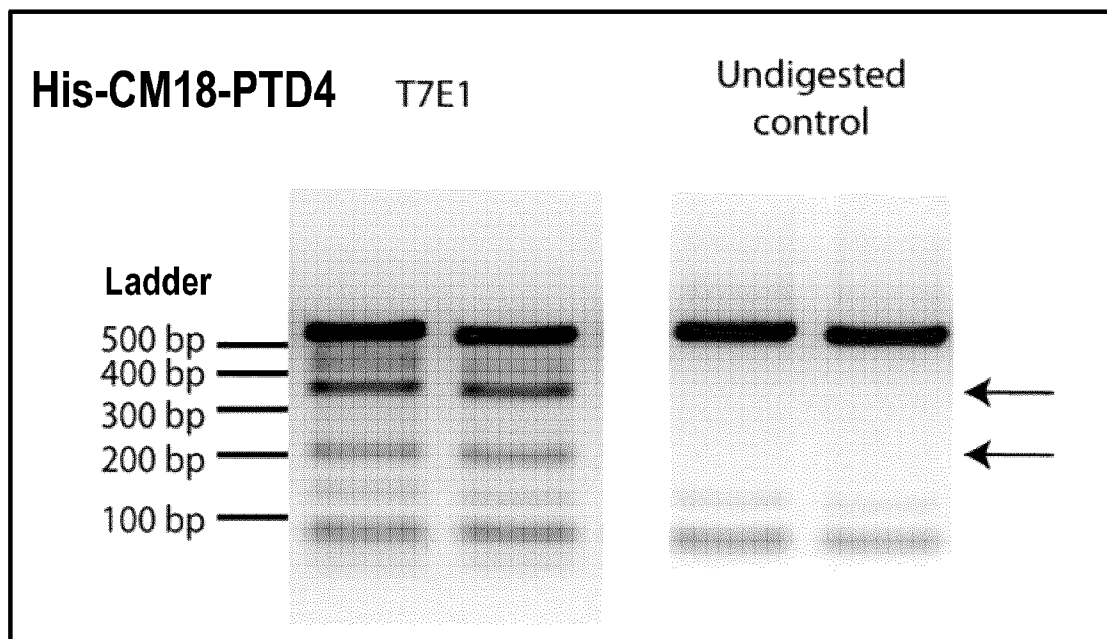


Fig. 41C

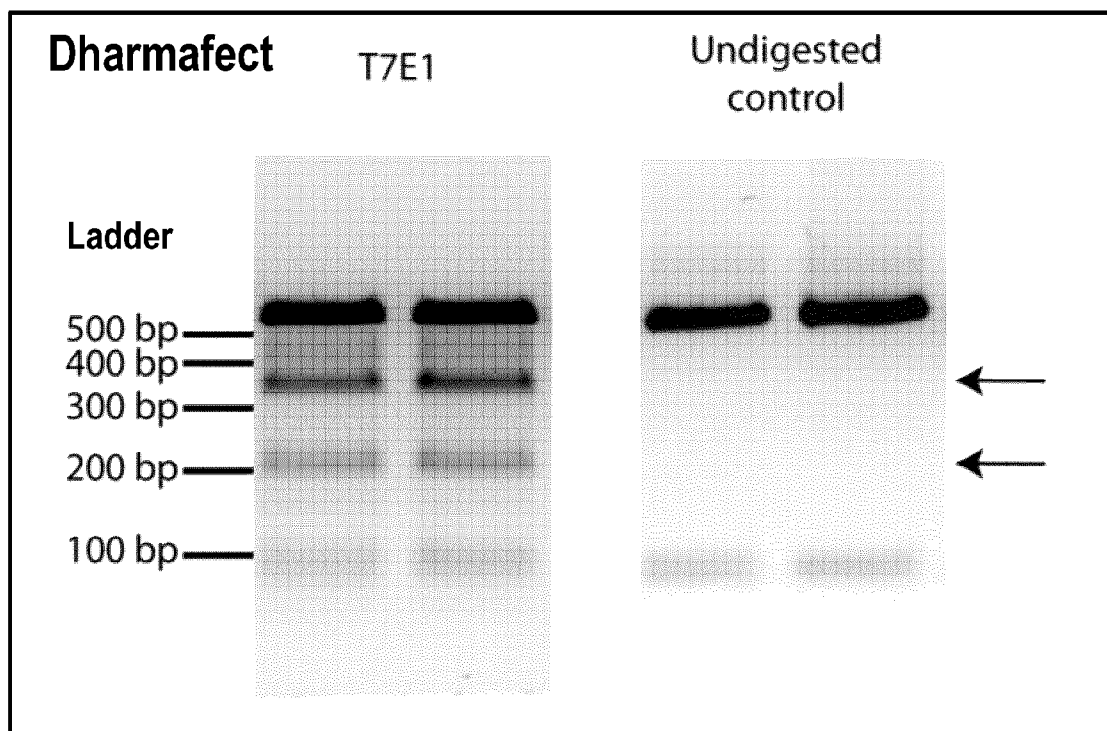


Fig. 42

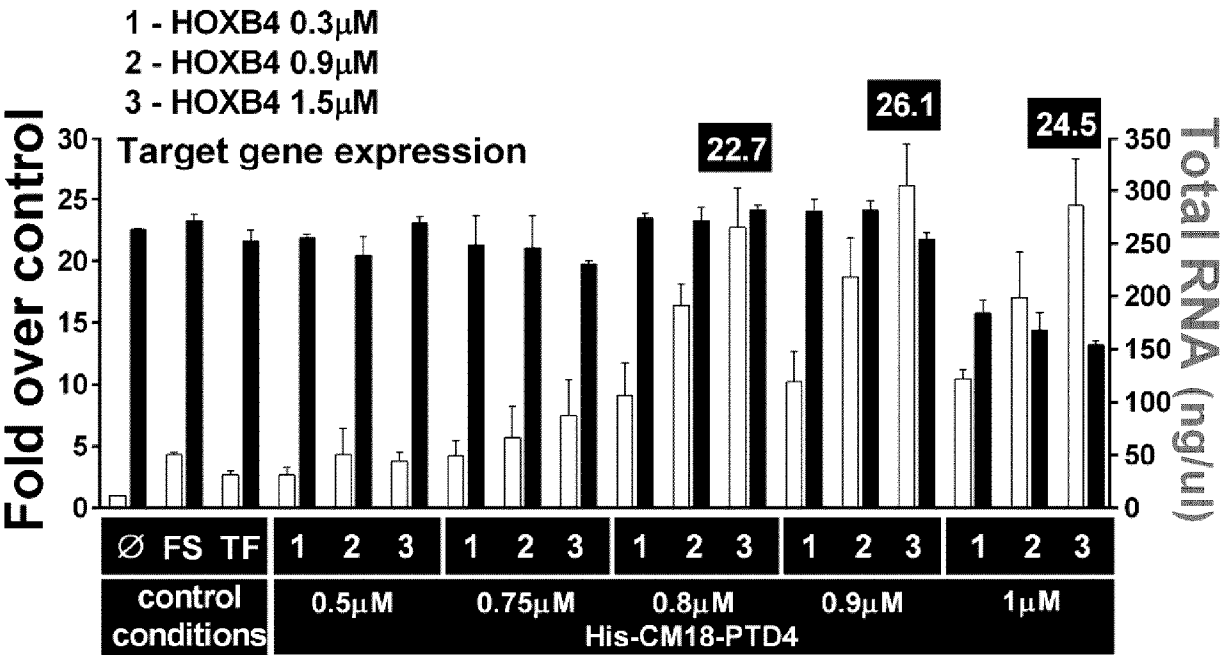


Fig. 43

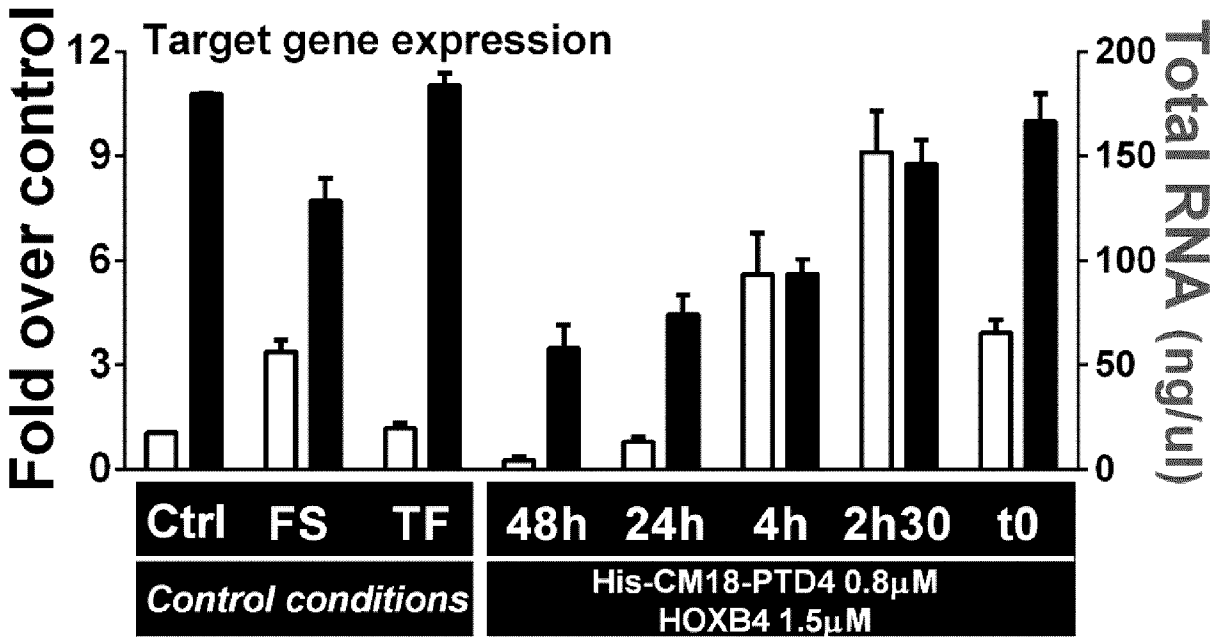


Fig. 44

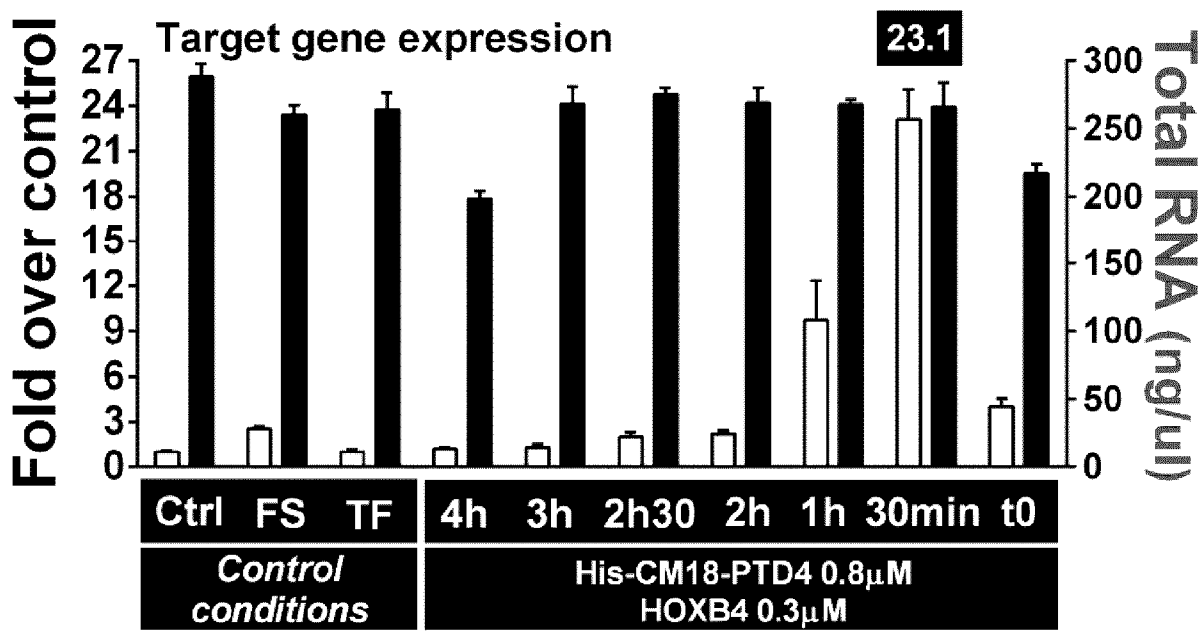


Fig. 45A

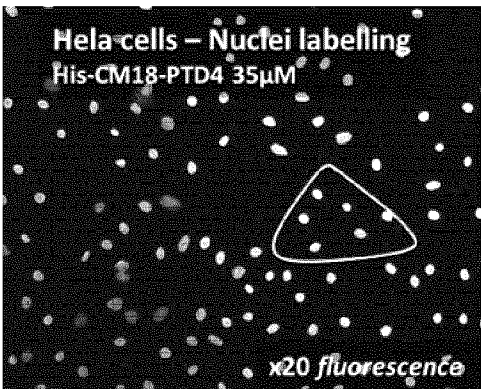


Fig. 45B

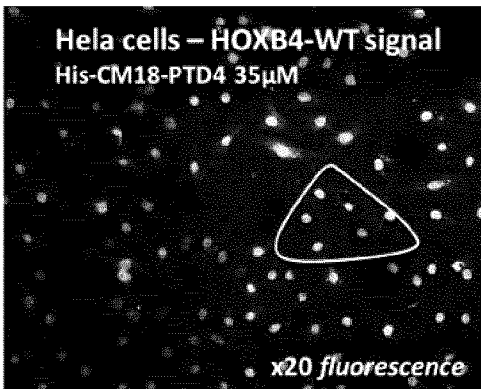


Fig. 45C

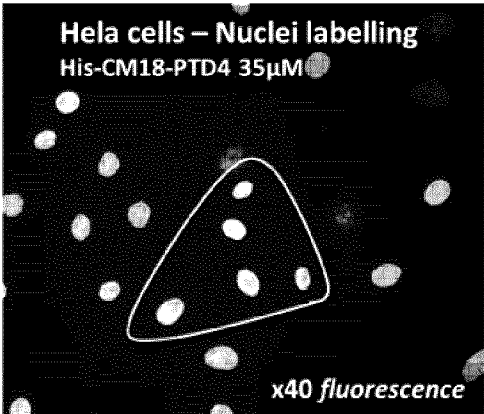


Fig. 45D

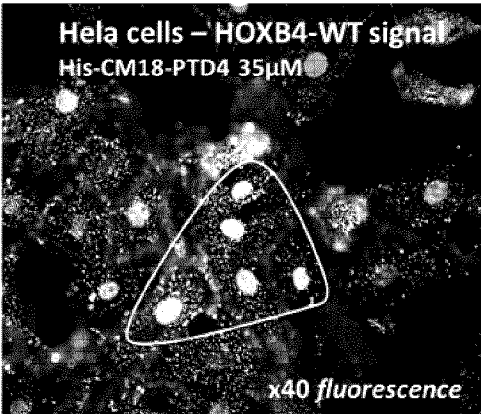


Fig. 46A

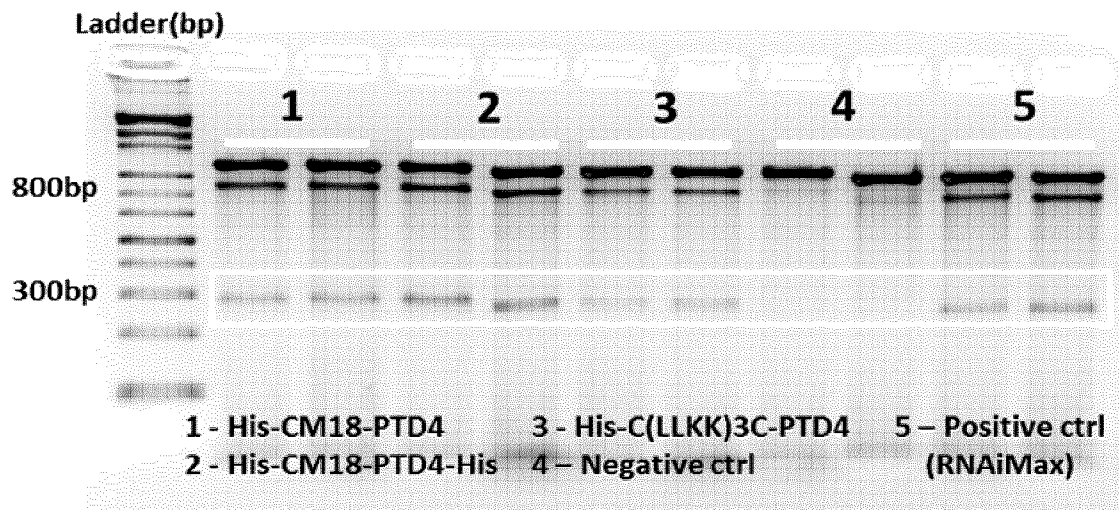


Fig. 46B

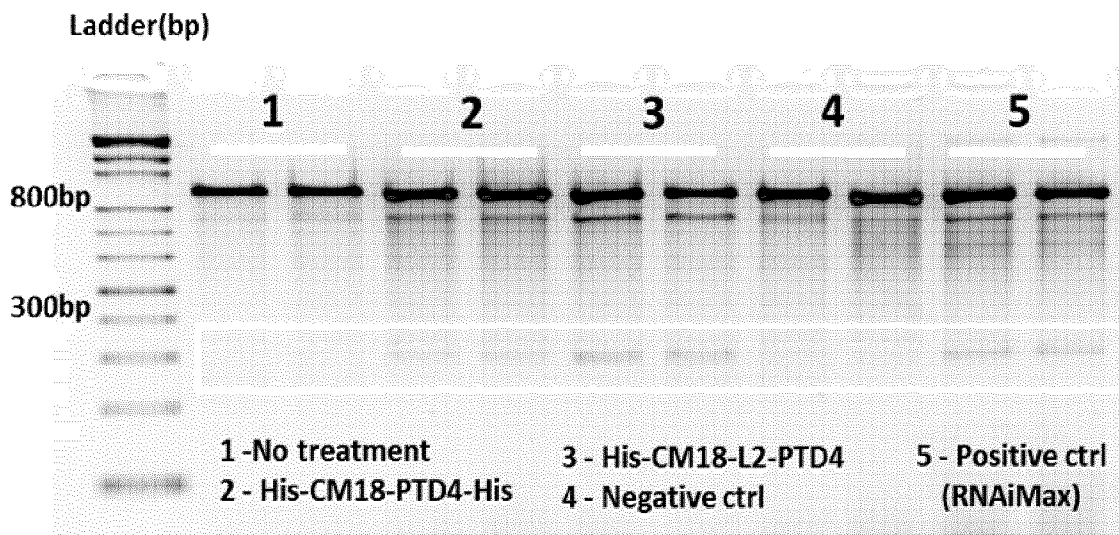


Fig. 47

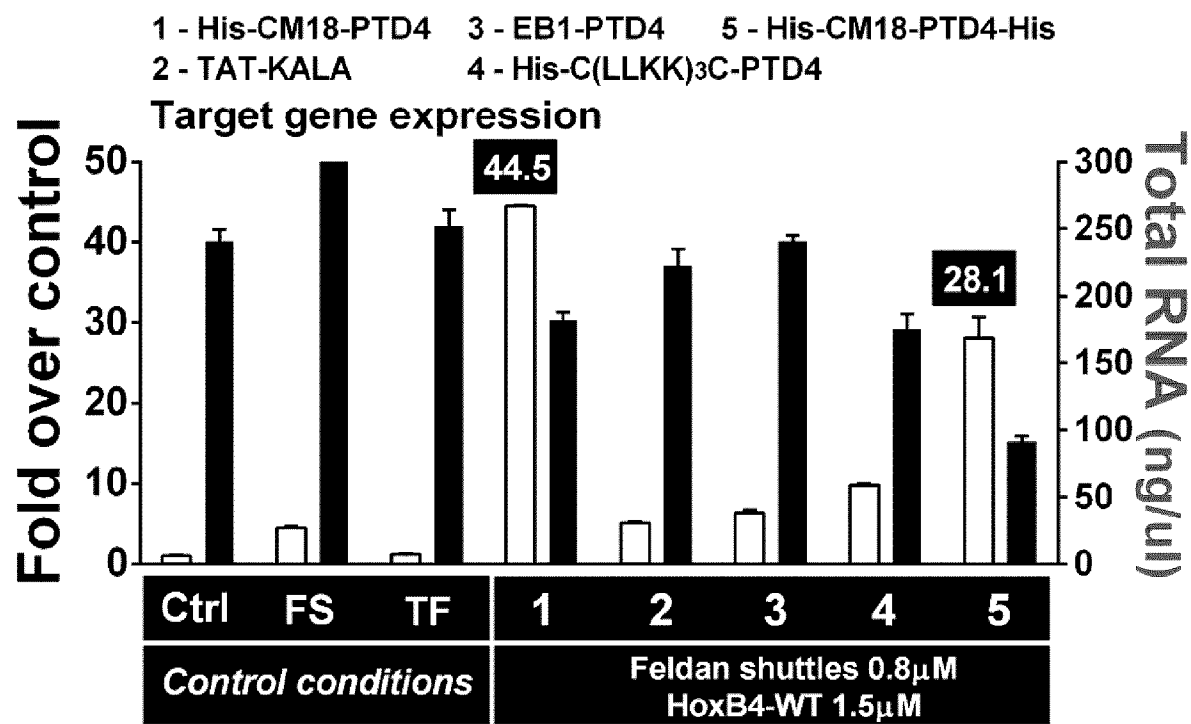


Fig. 48

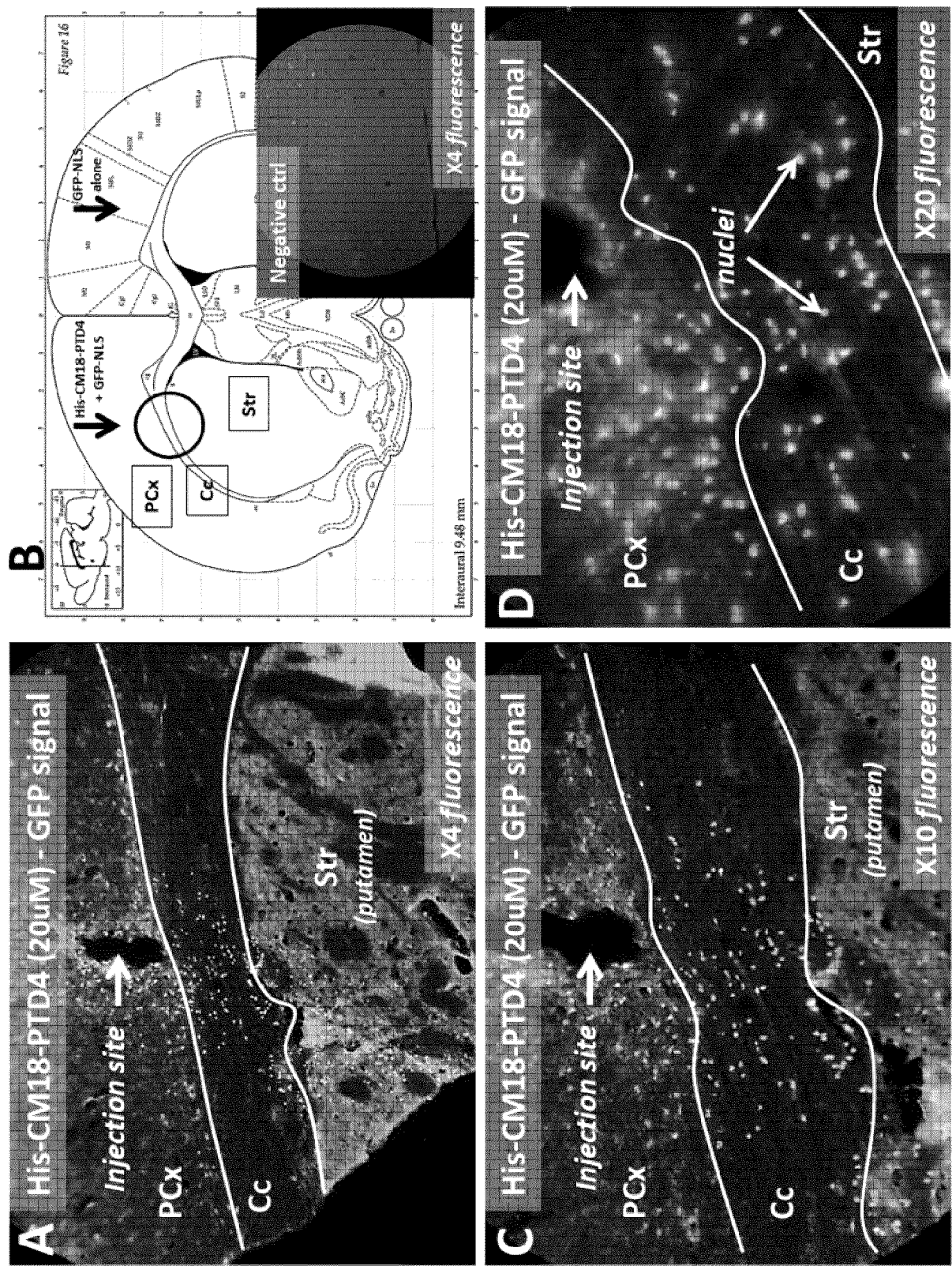


Fig. 49A

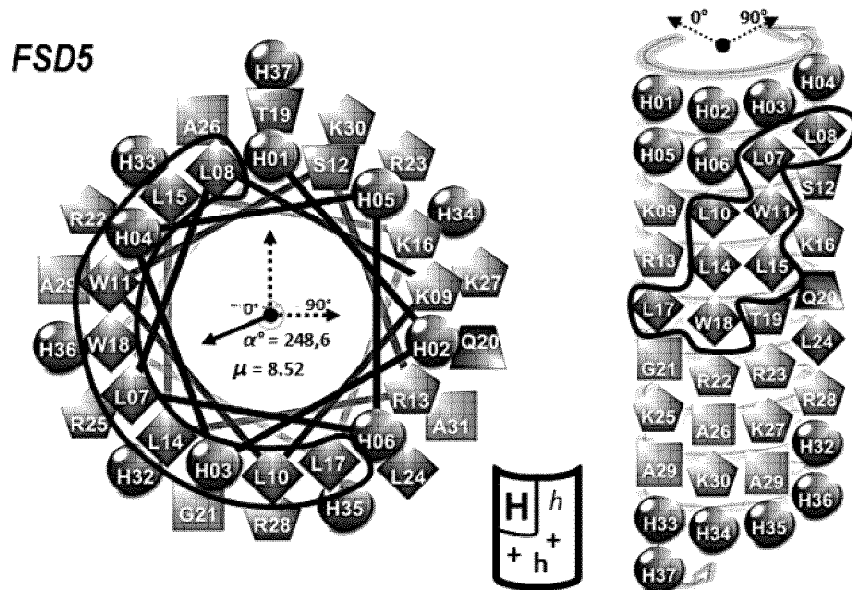


Fig. 49B

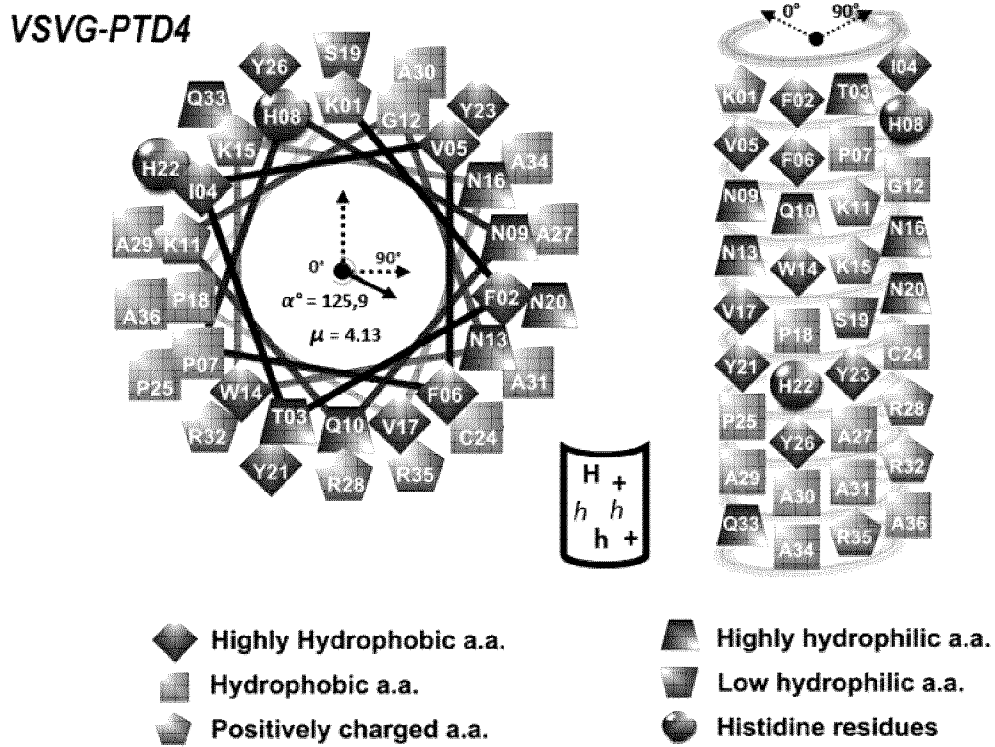


Fig. 49C

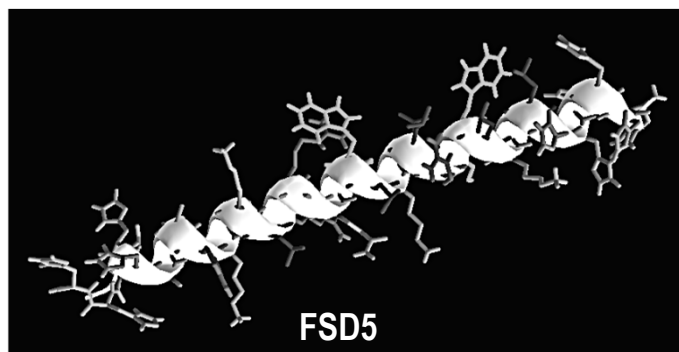


Fig. 49D

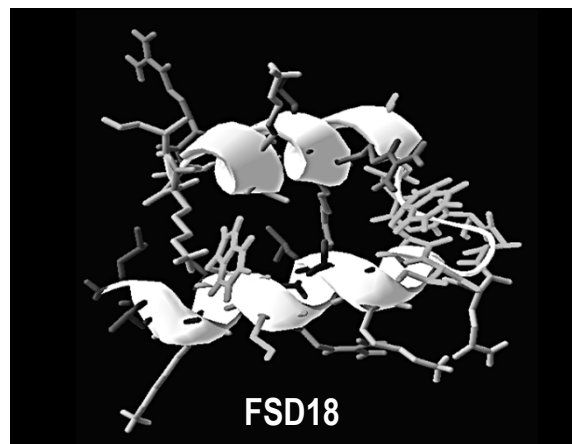


Fig. 49E



Fig. 49F

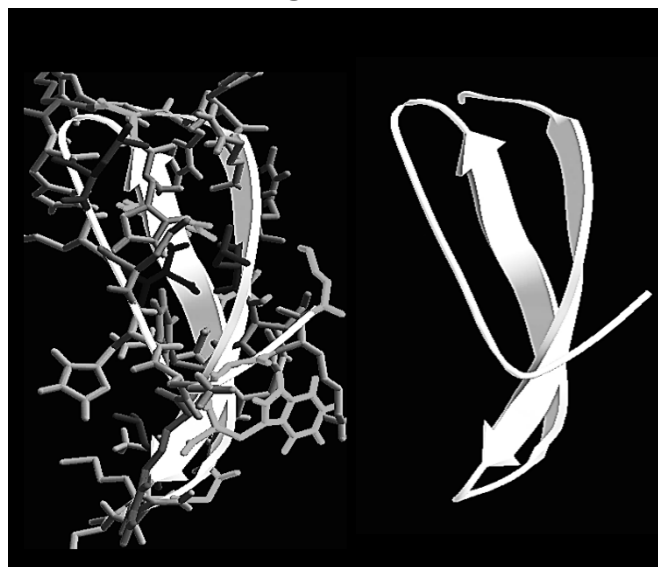


Fig. 49G

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	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	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	-	-	K	A	K	R	A	K	A	-	-	-	-	-	-	-	-	-	-	
FSD19	-	-	-	L	L	K	L	W	S	R	-	L	L	K	T	W	T	Q	G	R	R	L	-	-	K	A	K	S	A	Q	A	S	T	R	Q	A	-	-	-	-	-	
FSD20	-	A	V	L	K	L	W	K	R	-	L	L	K	L	F	R	K	G	R	R	L	-	-	K	A	K	R	A	K	A	K	R	-	-	-	-	-	-	-	-	-	
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	3	5	2	3	1	0	0	1	0	5	3	10	7	9	4	3	6	1	2	1	0	0	0	0	
Unconserved 012345678910 Conserved																																										

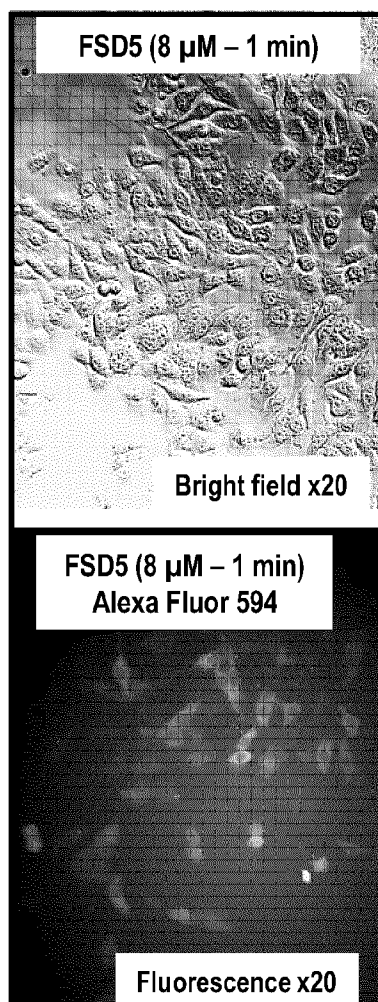
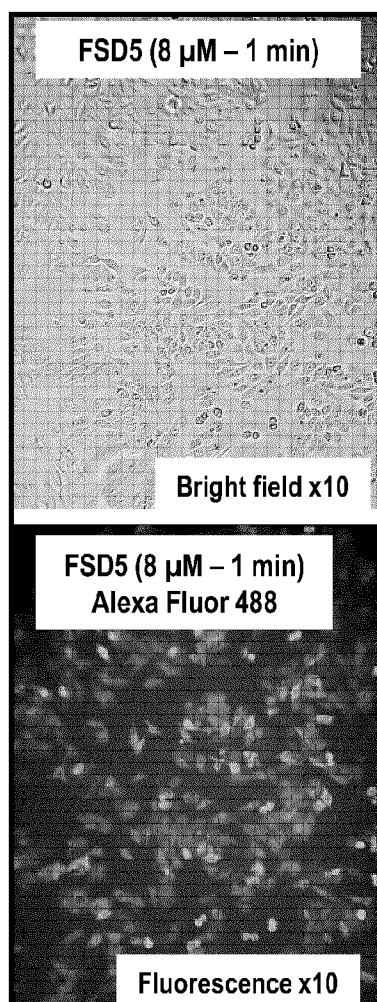
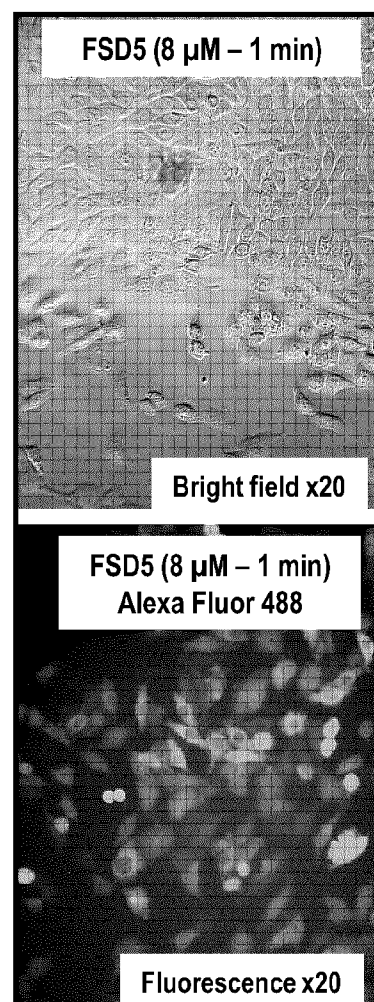
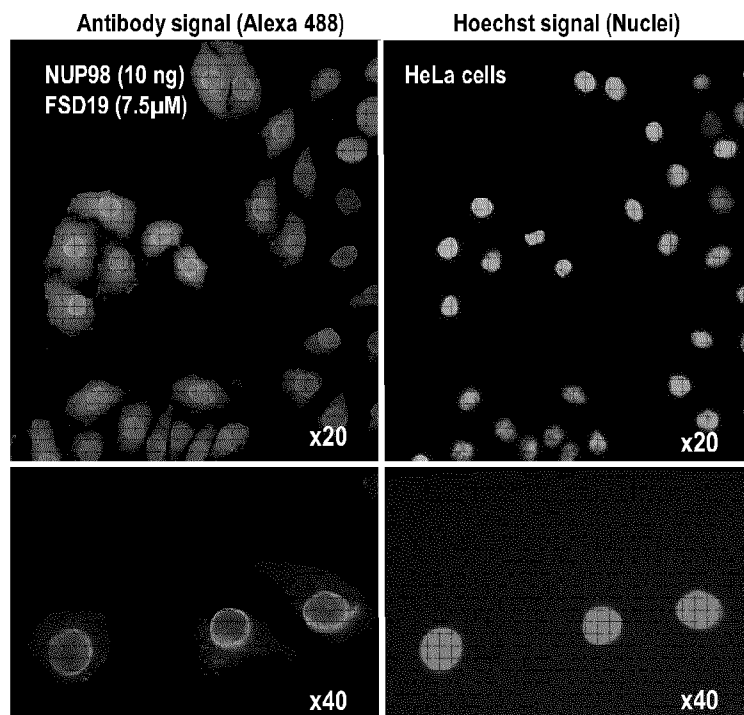
Fig. 50A**Fig. 50B****Fig. 50C**

Fig. 50D

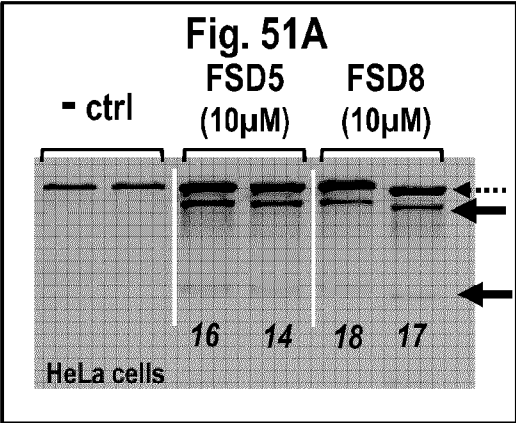
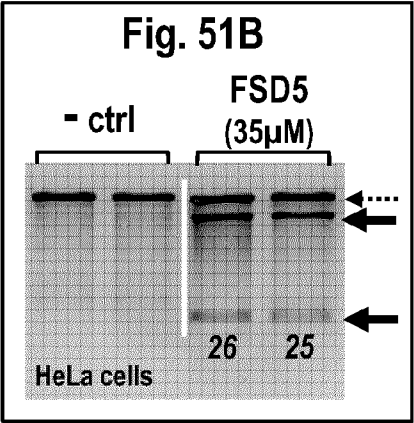
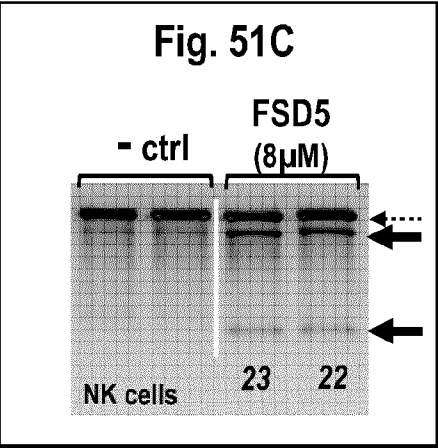
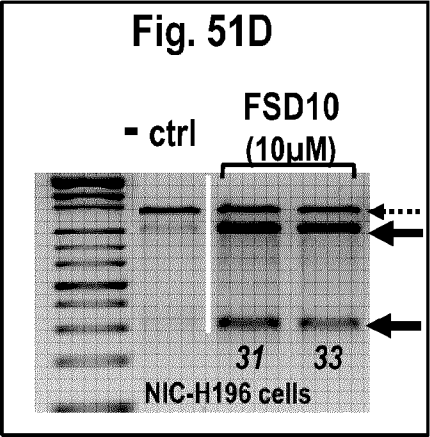
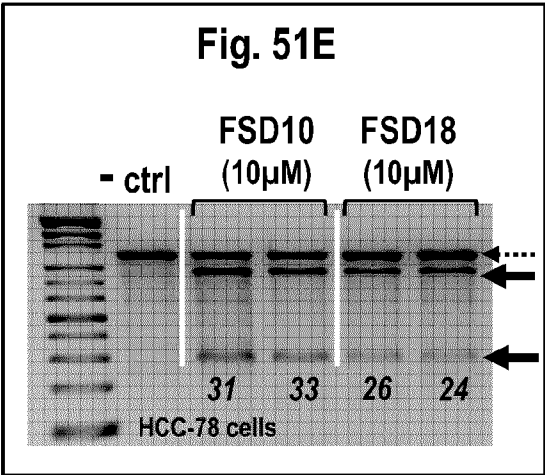
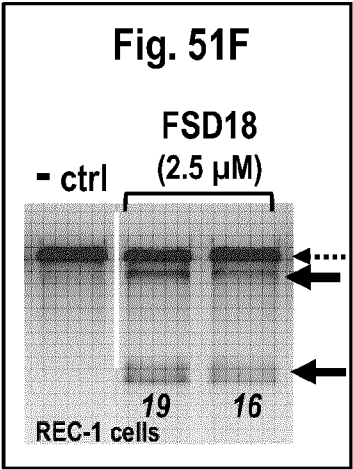


Fig. 51G

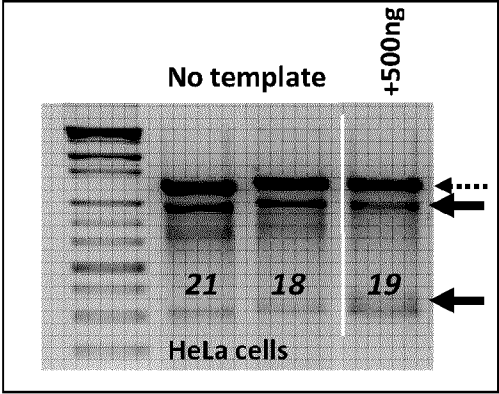


Fig. 51H

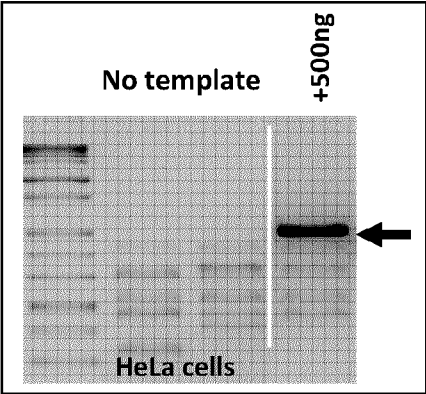


Fig. 51I

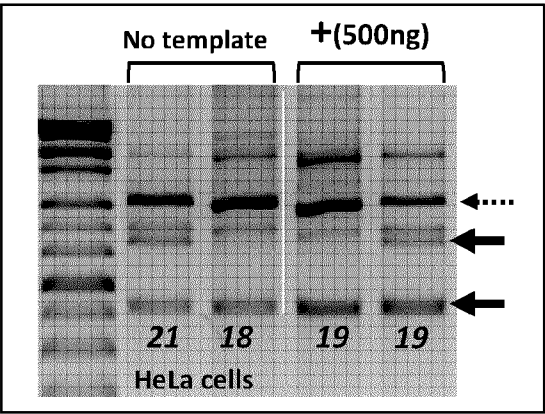


Fig. 51J

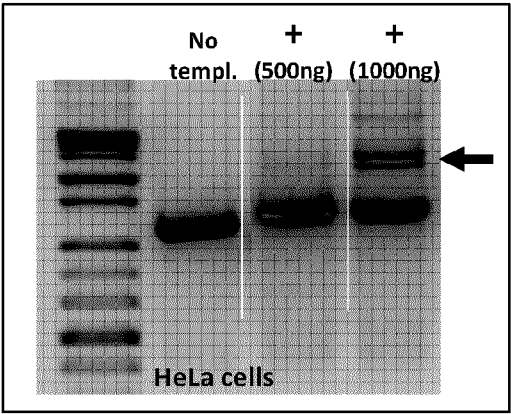


Fig. 51K

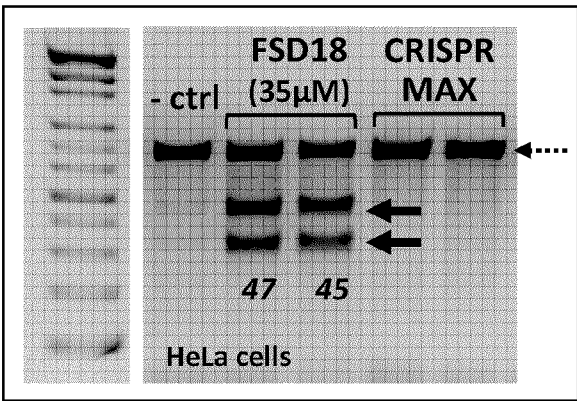
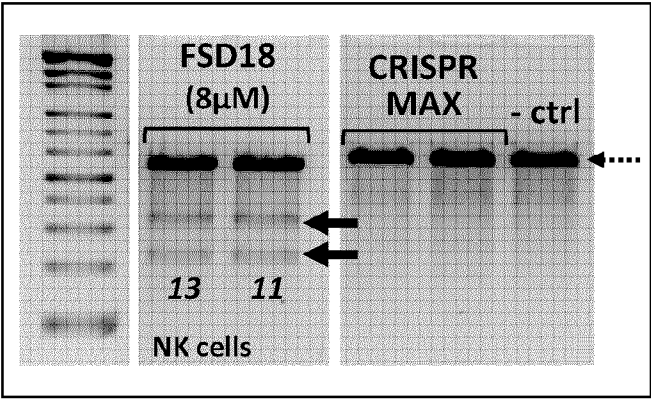
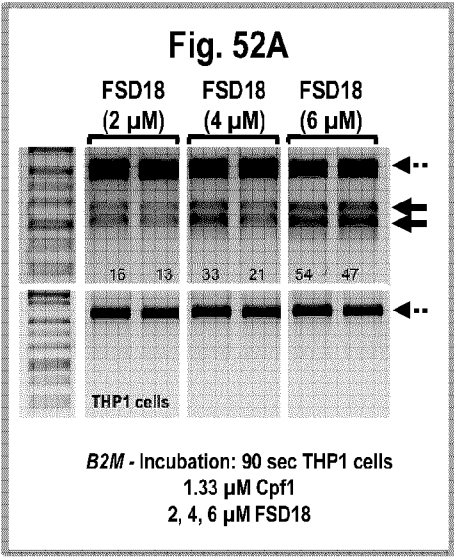
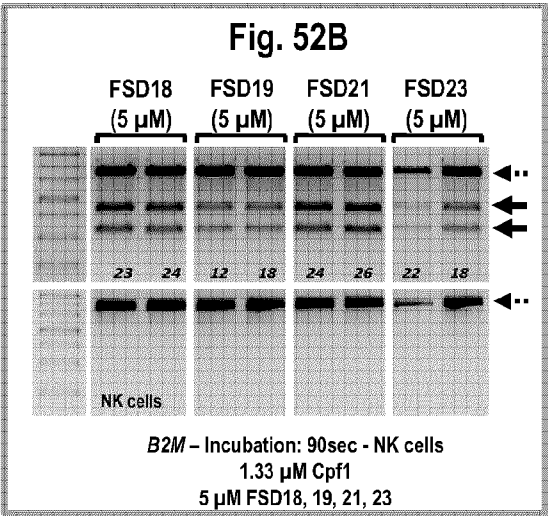
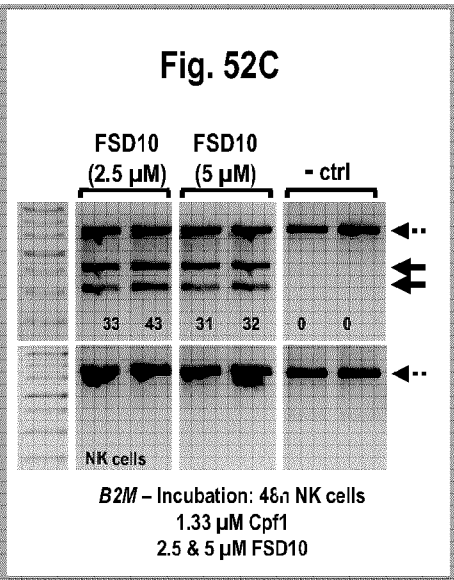
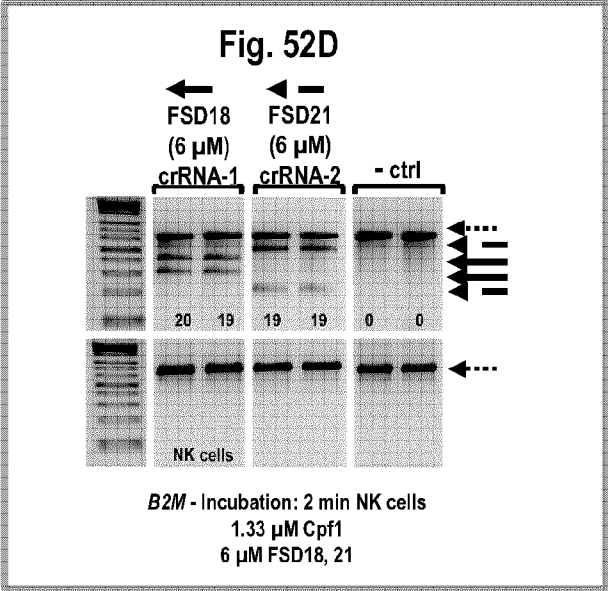
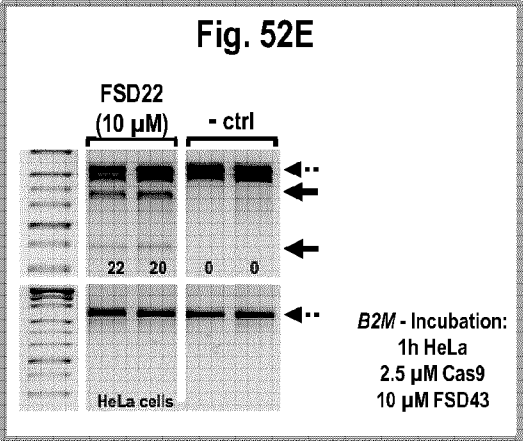
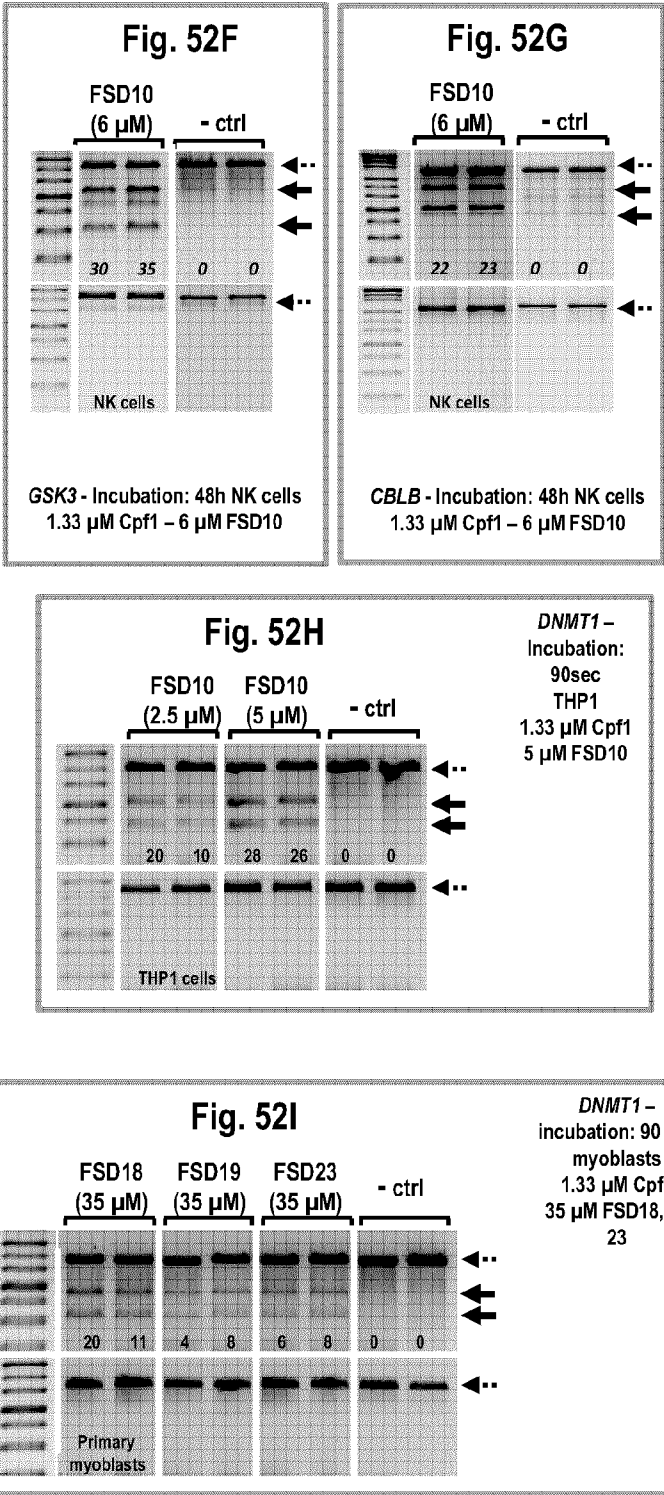
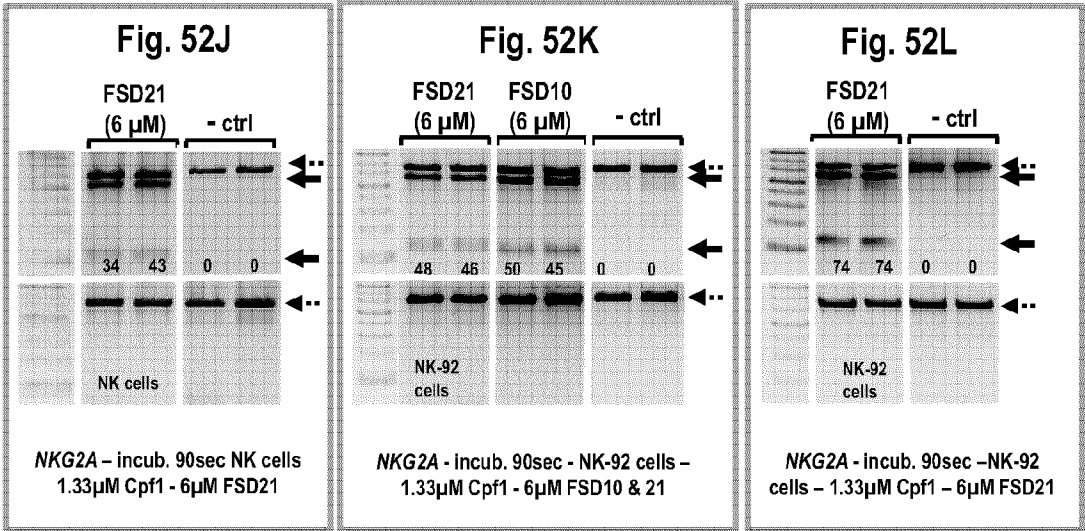
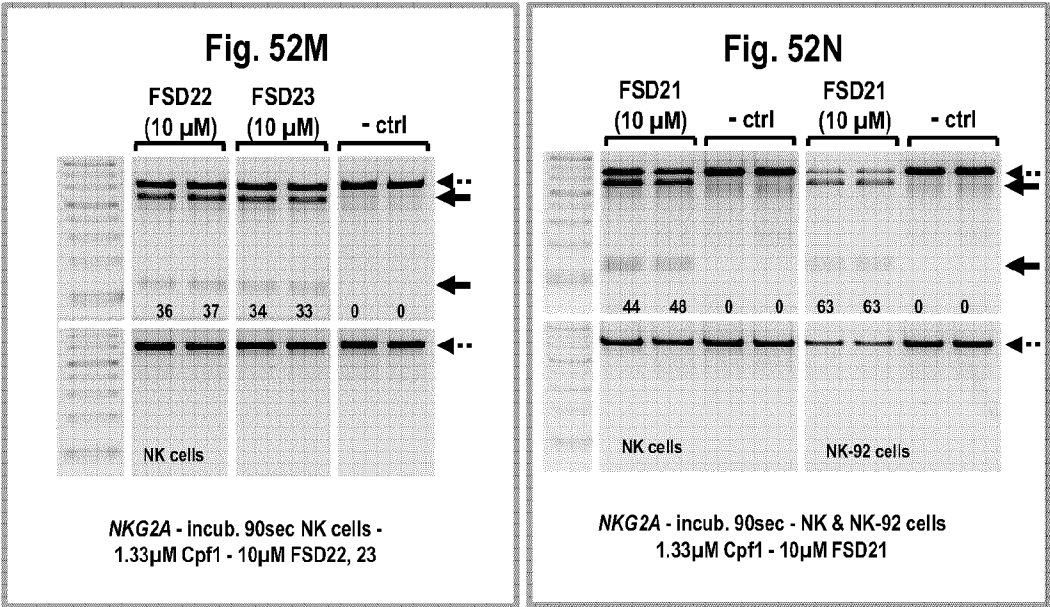


Fig. 51L









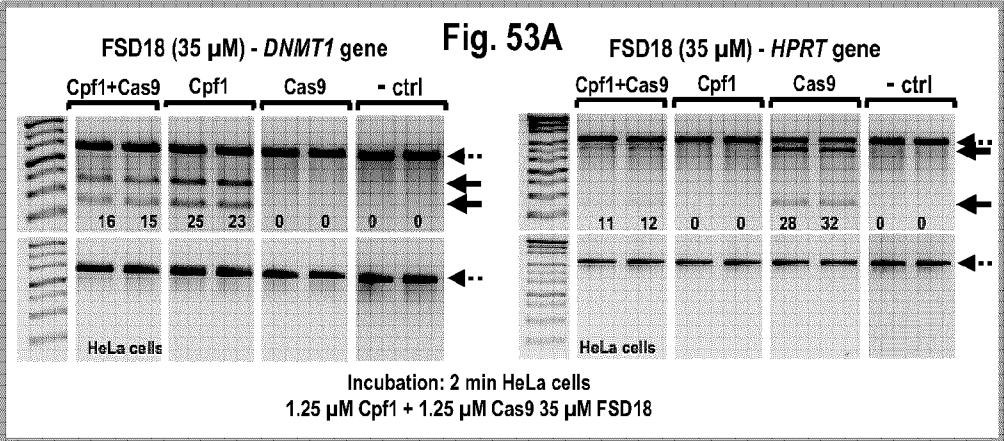
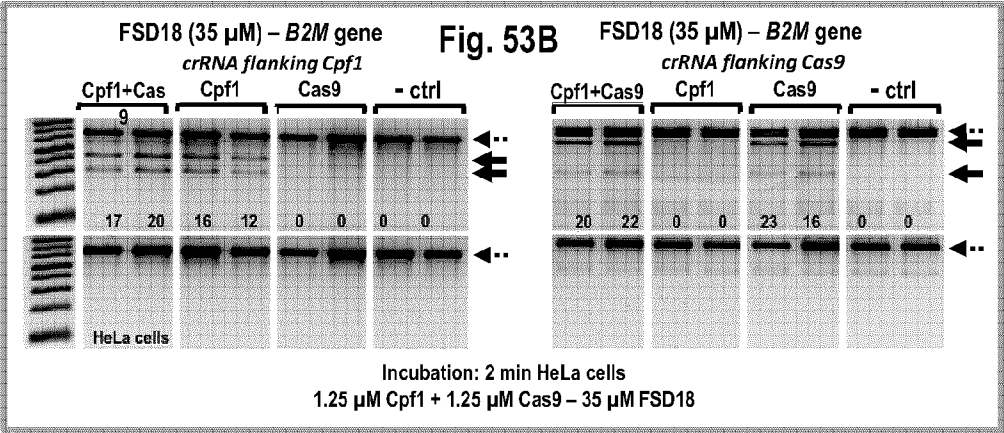
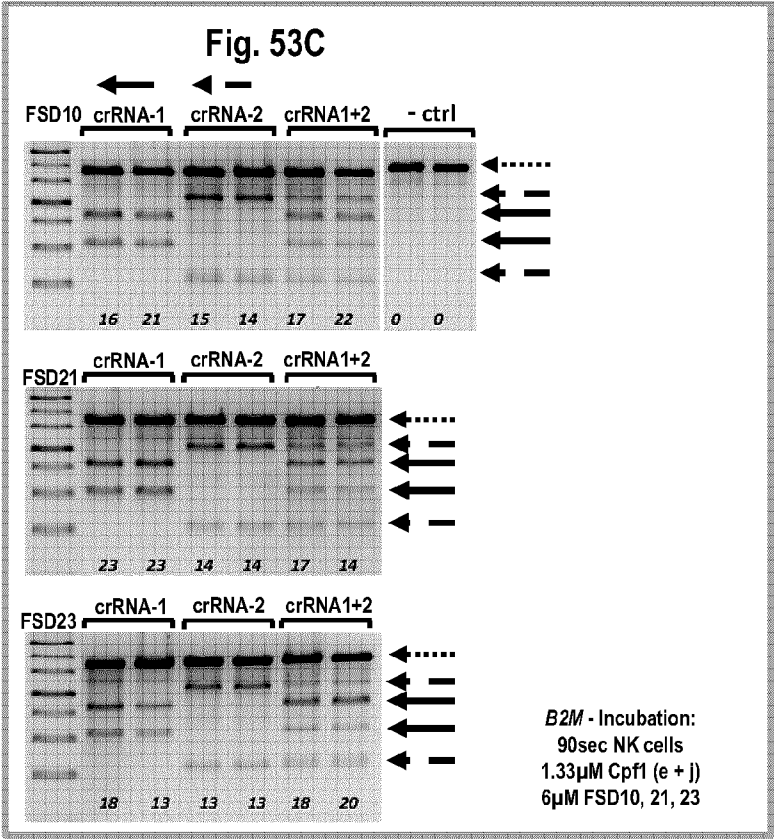


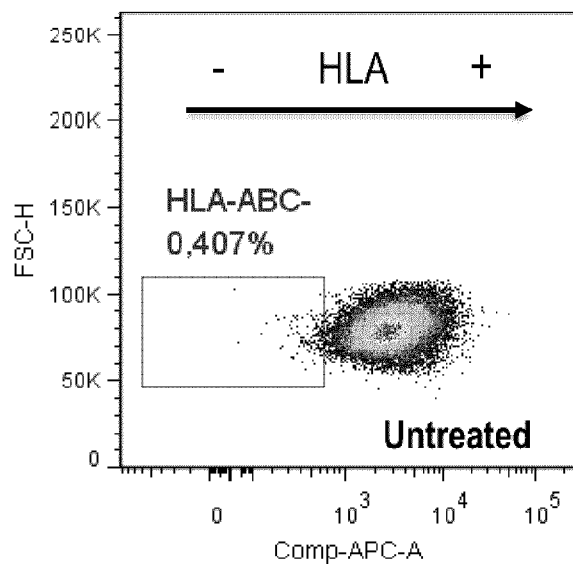
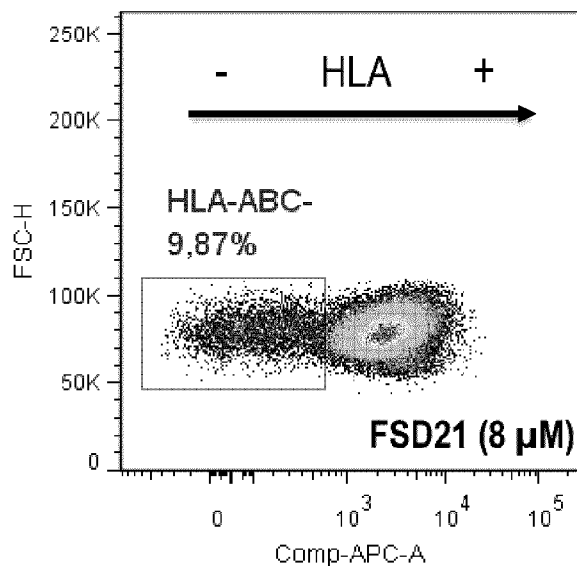
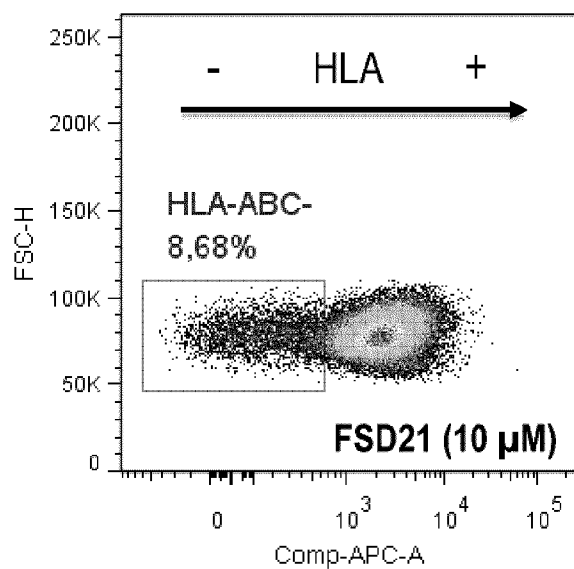
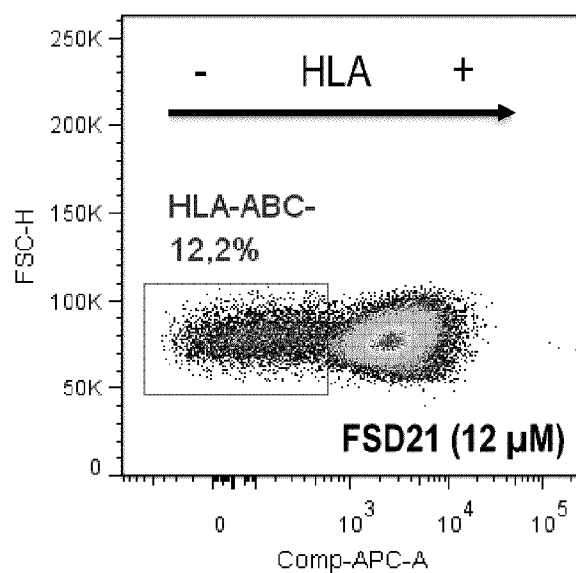
Fig. 54A**Fig. 54B****Fig. 54C****Fig. 54D**

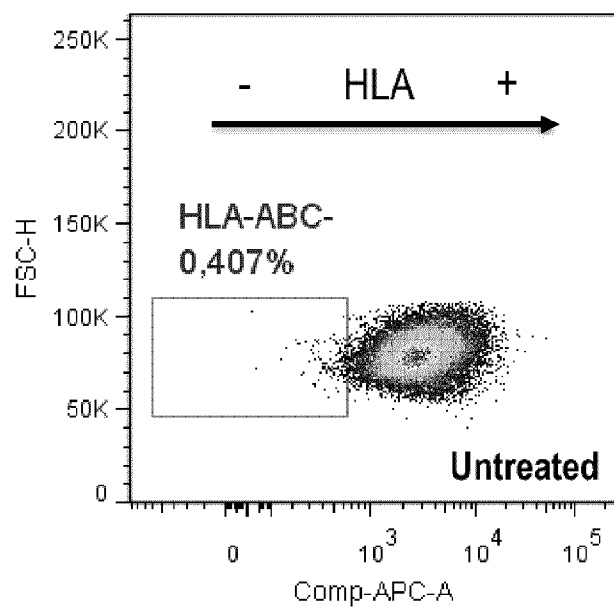
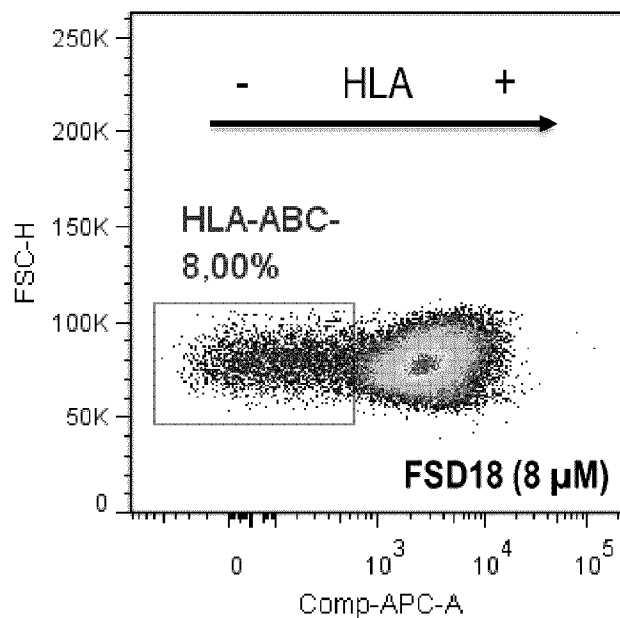
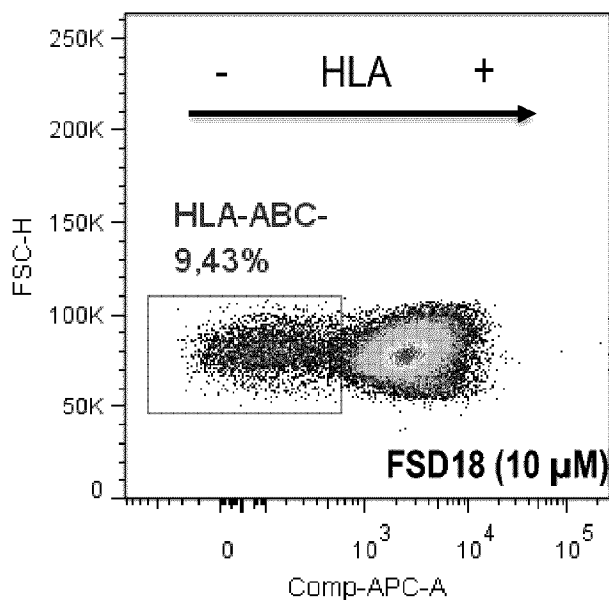
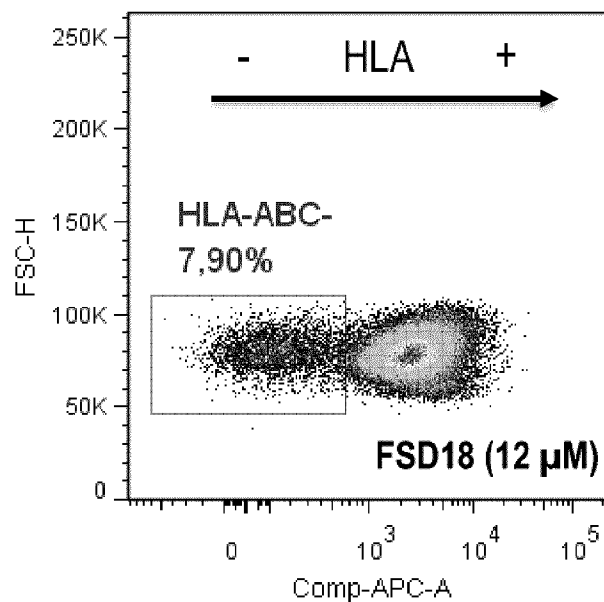
Fig. 55A**Fig. 55B****Fig. 55C****Fig. 55D**

Fig. 56A

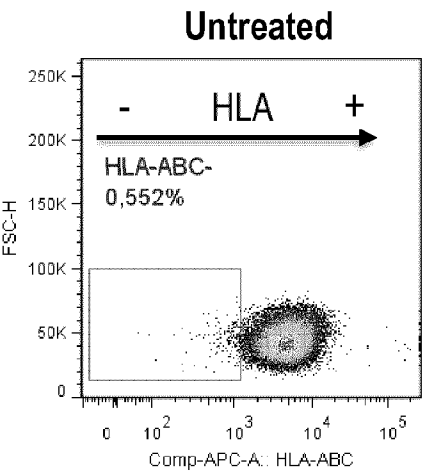


Fig. 56B

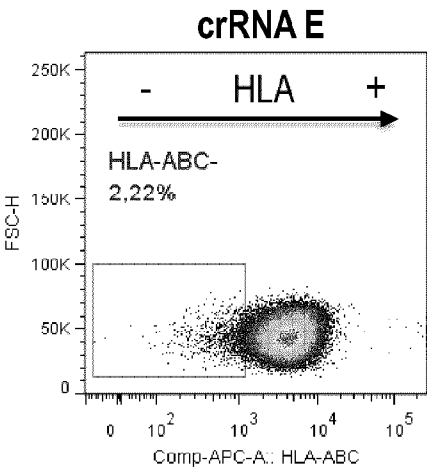


Fig. 56C
crRNA G

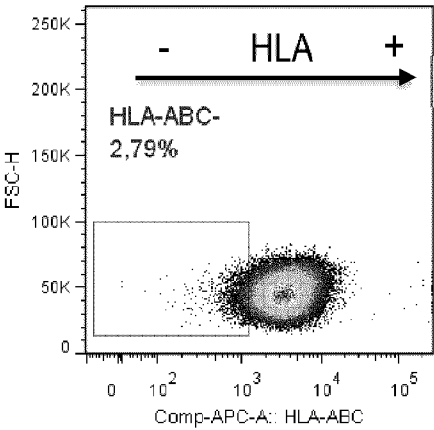


Fig. 56D

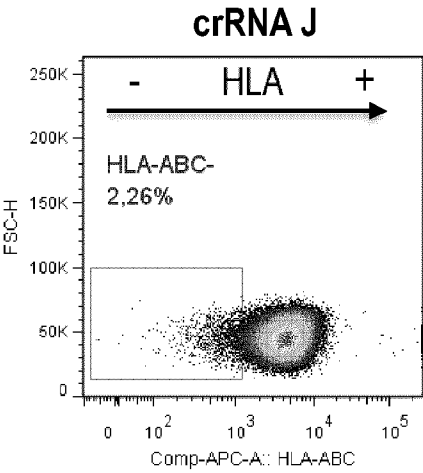


Fig. 56E

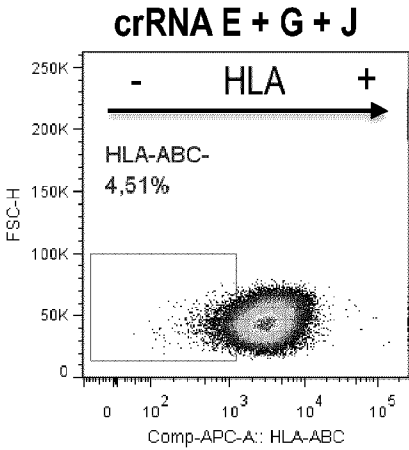


Fig. 57A

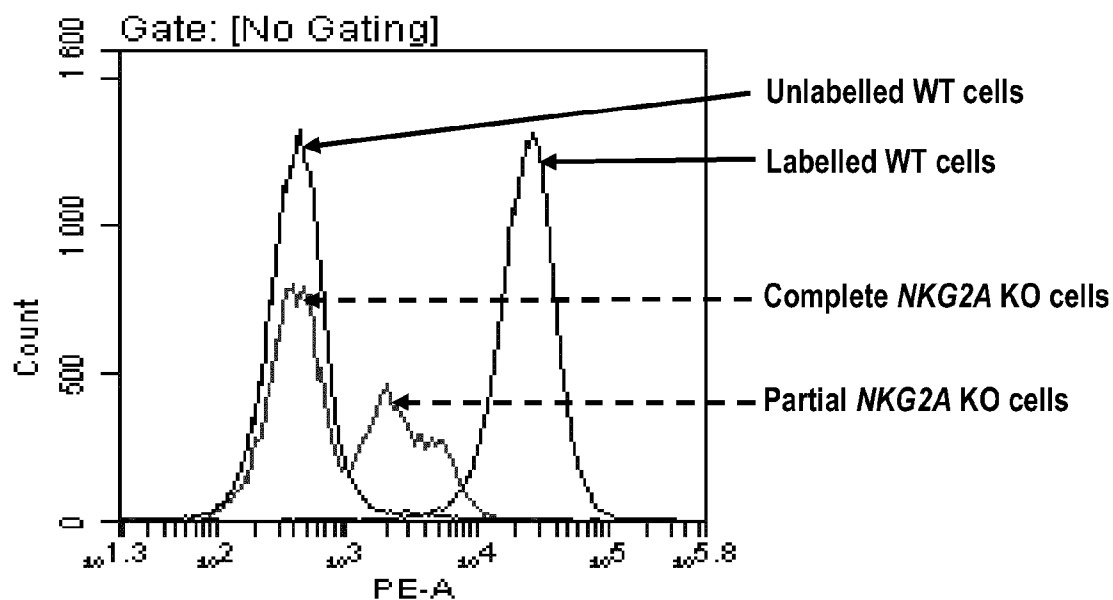


Fig. 57B

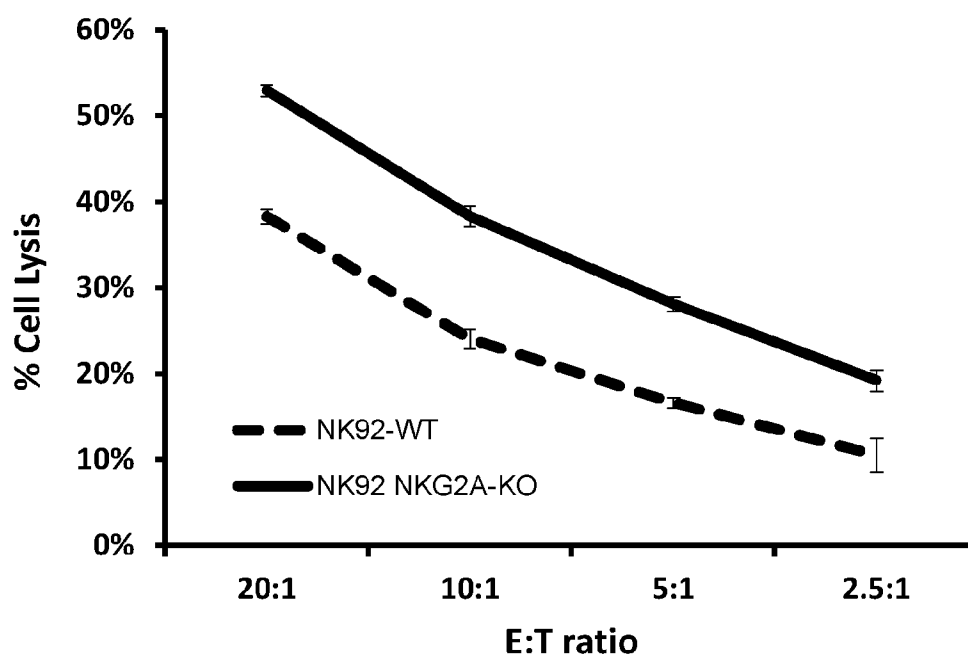


Fig. 58A

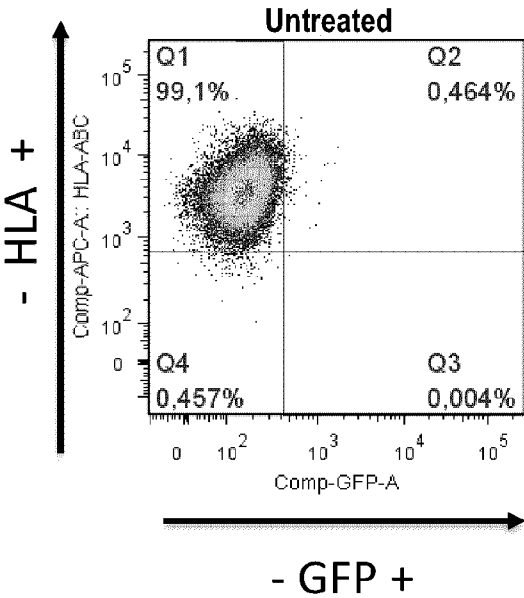


Fig. 58B

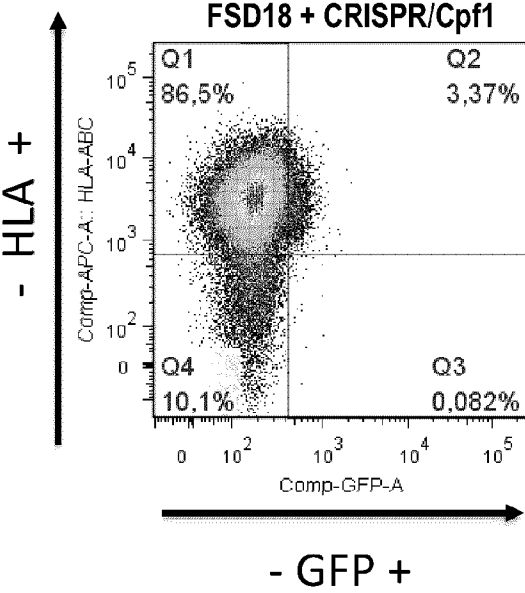


Fig. 58C

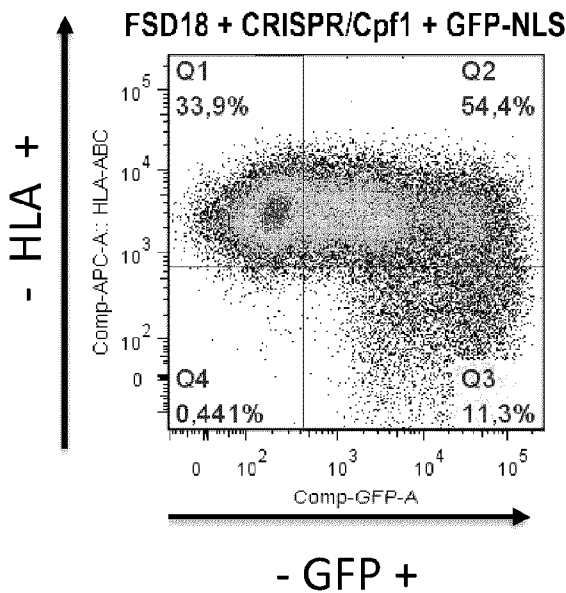


Fig. 58D

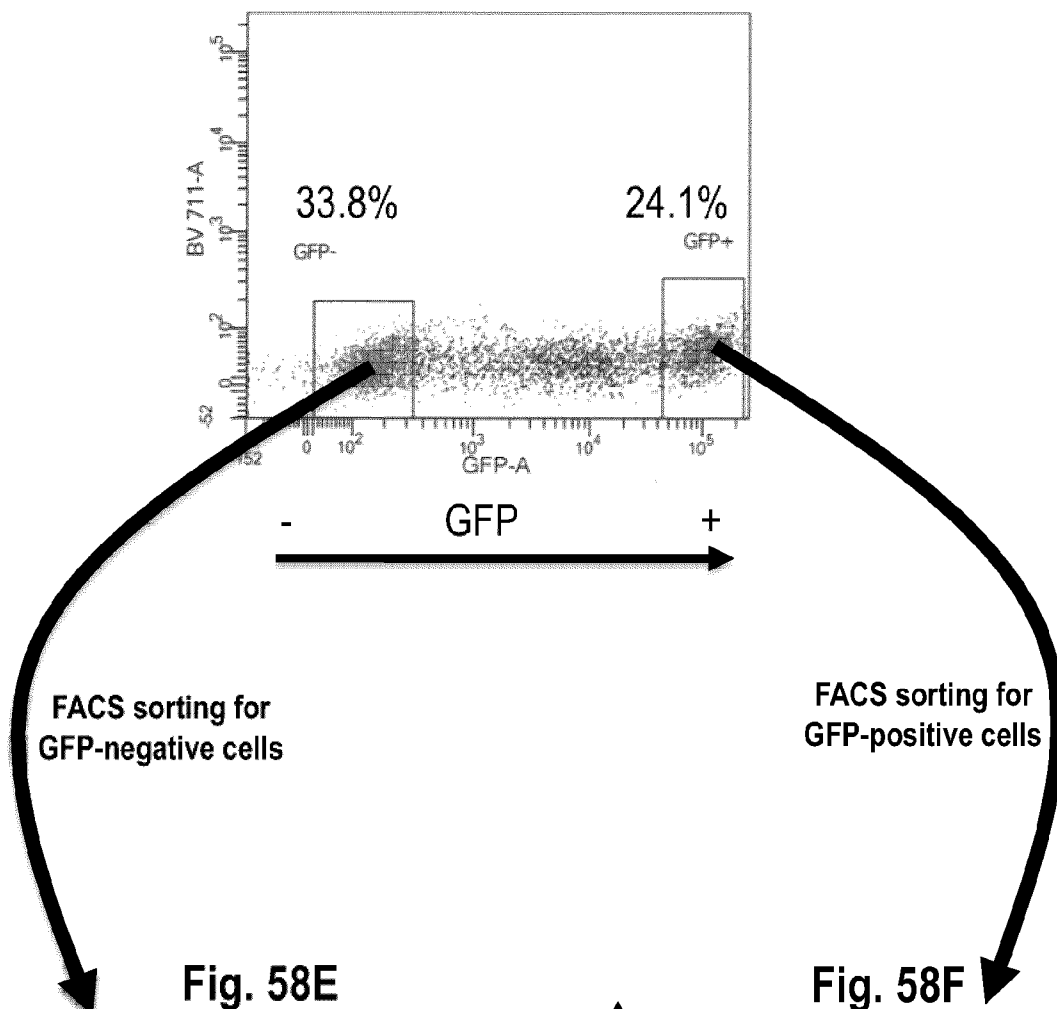


Fig. 58E

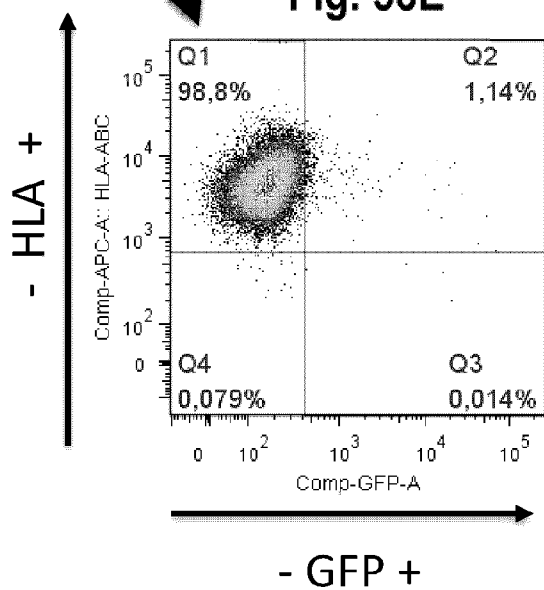


Fig. 58F

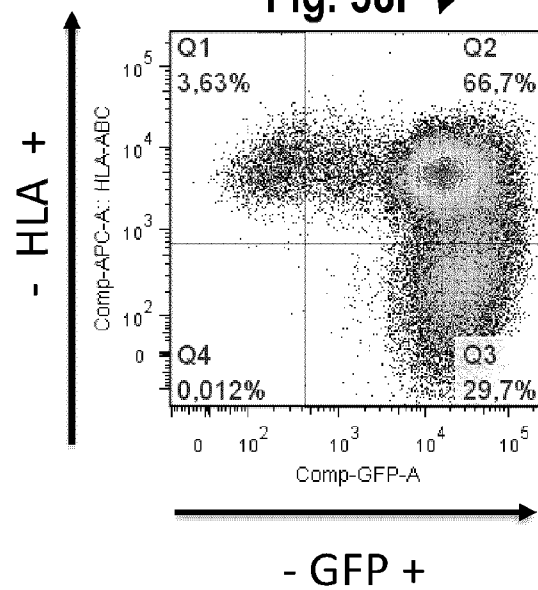


Fig.58G

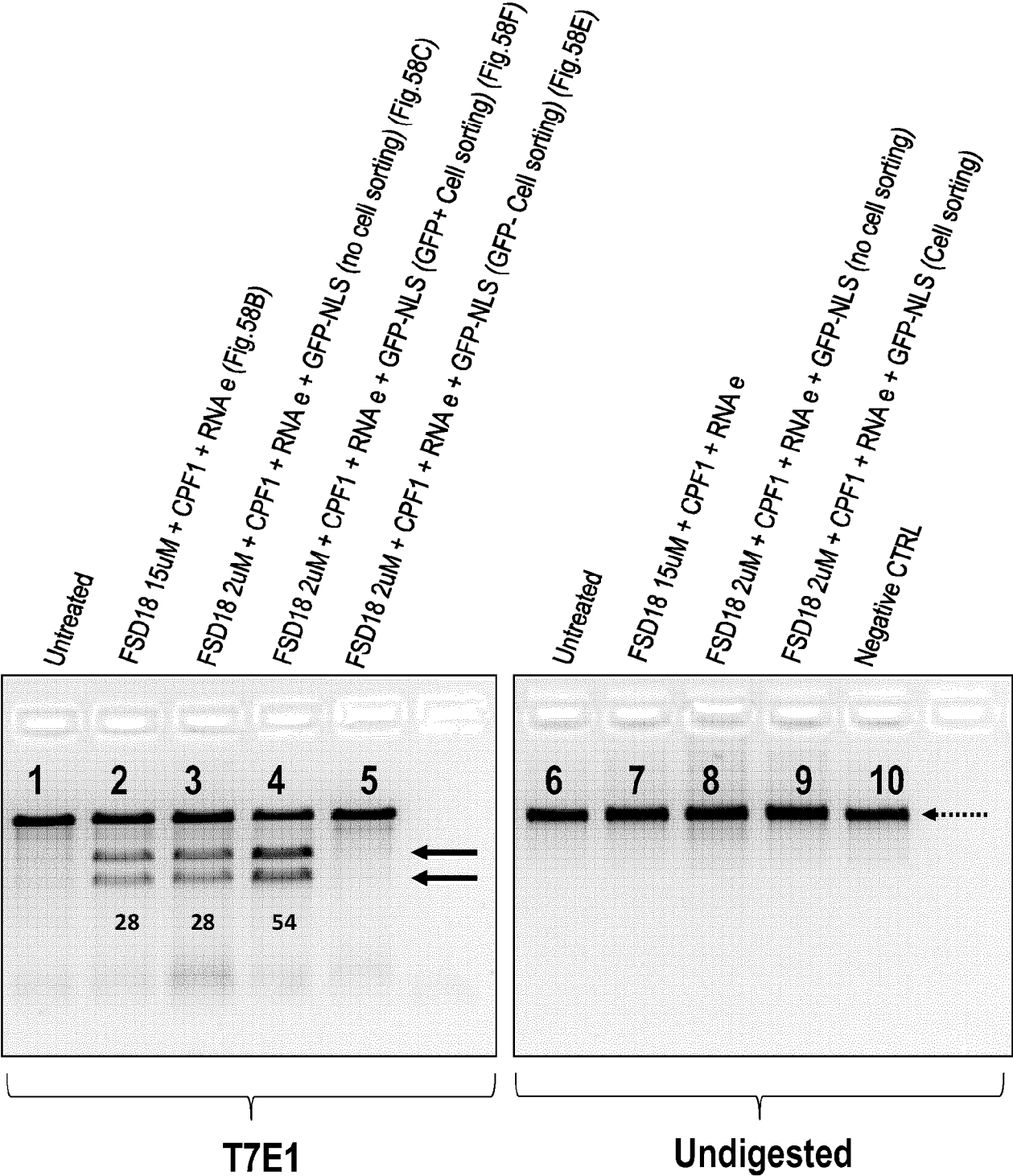


Fig. 59A

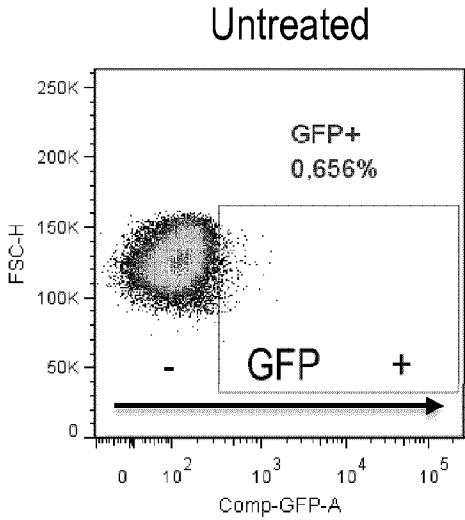


Fig. 59B

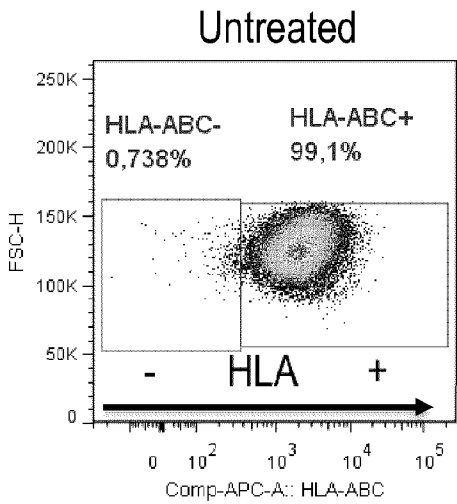


Fig. 59C

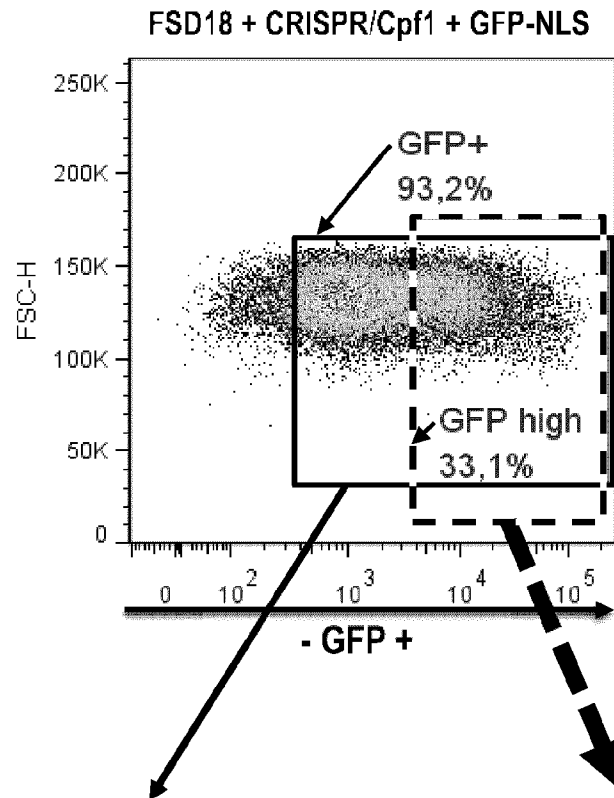


Fig. 59D
GFP +

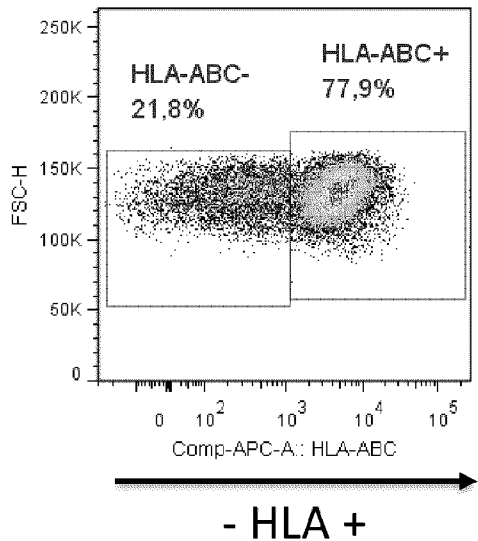


Fig. 59E
GFP high

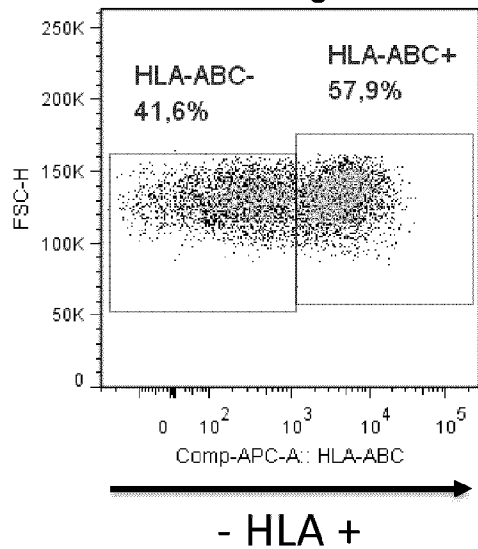
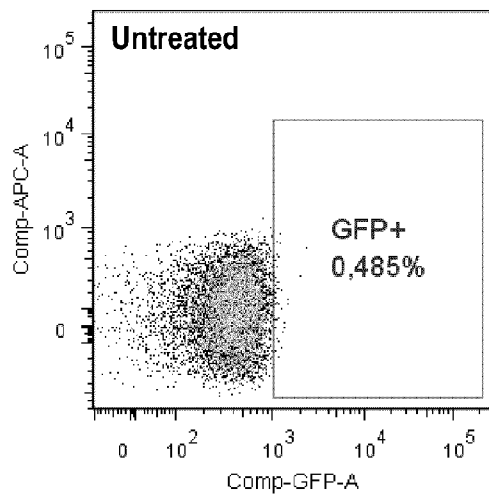
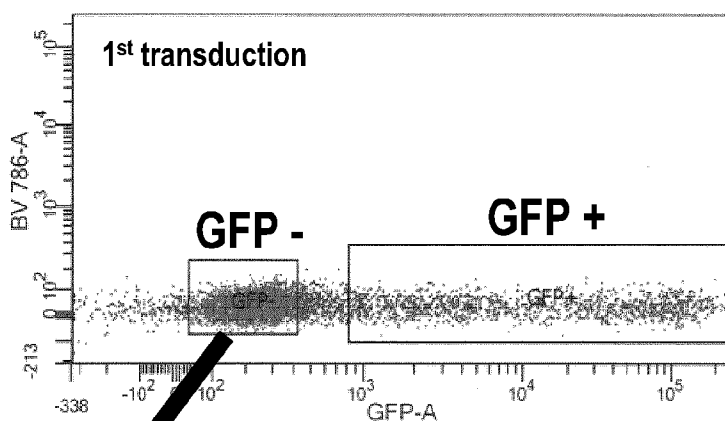
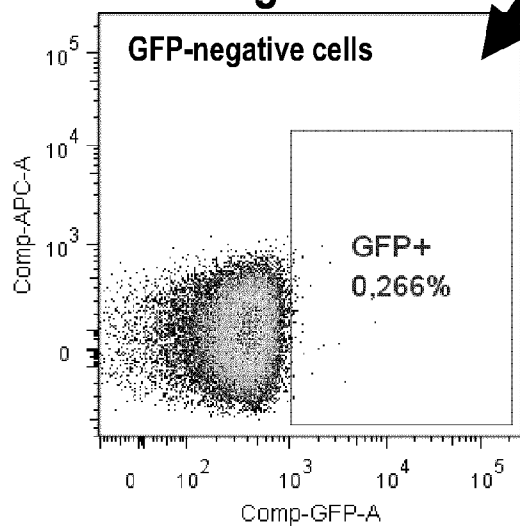
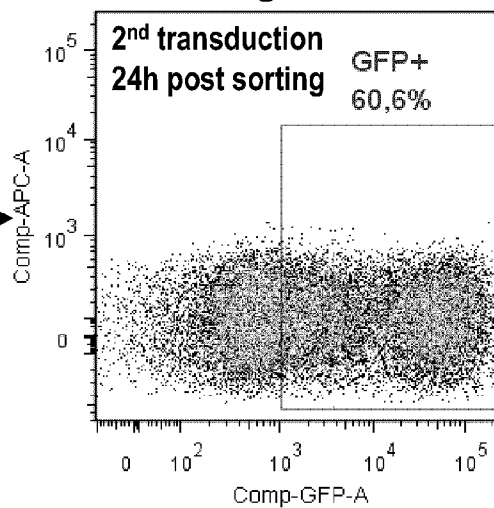


Fig. 60A**Fig. 60B****Fig. 60C****Fig. 60D**

Sorting