

FIG. 1

Cassette #	SEQ ID NO:	5' Enhancer	Non-Neuron Silencing Element	Promoter	Intron	5' UTR	Intron	Transgene	3' Enhancer	3' UTR	PolyA
1	71	CMV		mMecp2				CODA-R	FullIEES		βGlobin
2	72	CMV		msCaMKIIa		mCaMKII	TPL+eMLP	CODA-R	FullIEES		βGlobin
3	73	CMV		hSyn		hSyn	hTPI	CODA-R	FullIEES		βGlobin
4	74	CMV		hMecp2			TPL+eMLP	CODA-R	511-810EES		βGlobin
5	75	CMV		hCaMKIIa		hCaMKII	TPL+eMLP	CODA-R	511-810EES		βGlobin
6	76	CMV		hyEnolase			TPL+eMLP	CODA-R	511-810EES		βGlobin
7	77	CMV	NRSE	cβActin	cβAct+rrGlob	fGlob		CODA-R	511-810EES		βGlobin
8	78	CMV		hPDGFβ			hSyn	CODA-R	511-810EES		βGlobin
9	79	CMV		mMecp2			hSyn	CODA-R	WPREx	αGlobin	hGH
10	80	CMV		msCaMKIIa		mCaMKII-V2	hCMV+rrGlob	CODA-R	WPREx	αGlobin	hGH
11	81	CMV		hSyn		hSyn	hSyn	CODA-R	WPREx	αGlobin	hGH
12	82	CMV		hMecp2			hCMV+rrGlob	CODA-R	WPREx	αGlobin	hGH
13	83	CMV		hCaMKIIa		hCaMKII	hCMV+rrGlob	CODA-R	WPREx	αGlobin	hGH
14	84	CMV		hyEnolase			hCMV+rrGlob	CODA-R	WPREx	αGlobin	hGH
15	85	CMV	NRSE	cβActin	cβAct+rrGlob	fGlob		CODA-R	WPREx	αGlobin	hGH
16	86	CMV		hPDGFβ				CODA-R	WPREx	αGlobin	hGH
17	87	CMV		cβActin	cβAct+rrGlob	fGlob		CODA-R	511-810EES		βGlobin
18	88	CMV-V2		hSyn-V2				CODA-R	WPREx-V2		hGH-V2
19	89			hSyn-V2				CODA-R	WPREx-V2		hGH-V2
20	90	CMV-V3	NRSE*	CMV				CODA-R	WPREx-V2		bGH
21	91	CMV-V3		CMV				CODA-R	WPREx-V2		bGH
23	92	CMV-V2		hCaMKIIa				CODA-R	WPREx-V2		hGH-V2
24	93	CMV-V2		hsCaMKIIa				CODA-R	WPREx-V2		hGH-V2

FIG. 1 (continued)

Cassette #	SEQ ID NO:	5' Enhancer	Non-Neuron Silencing Element	Promoter	Intron	5' UTR	Intron	Transgene	3' Enhancer	3' UTR	PolyA
33	121	CMV-V2		hSyn-V2				CODA-R	WPEx-V2		hGH-V2
34	122	CMV-V2		hCaMKIIa				CODA-R	WPEx-V2		hGH-V2
35	123			hSyn-V2				CODA-R	WPEx-V2		hGH-V2
36	124			hCaMKIIa				CODA-R	WPEx-V2		hGH-V2

FIG. 2

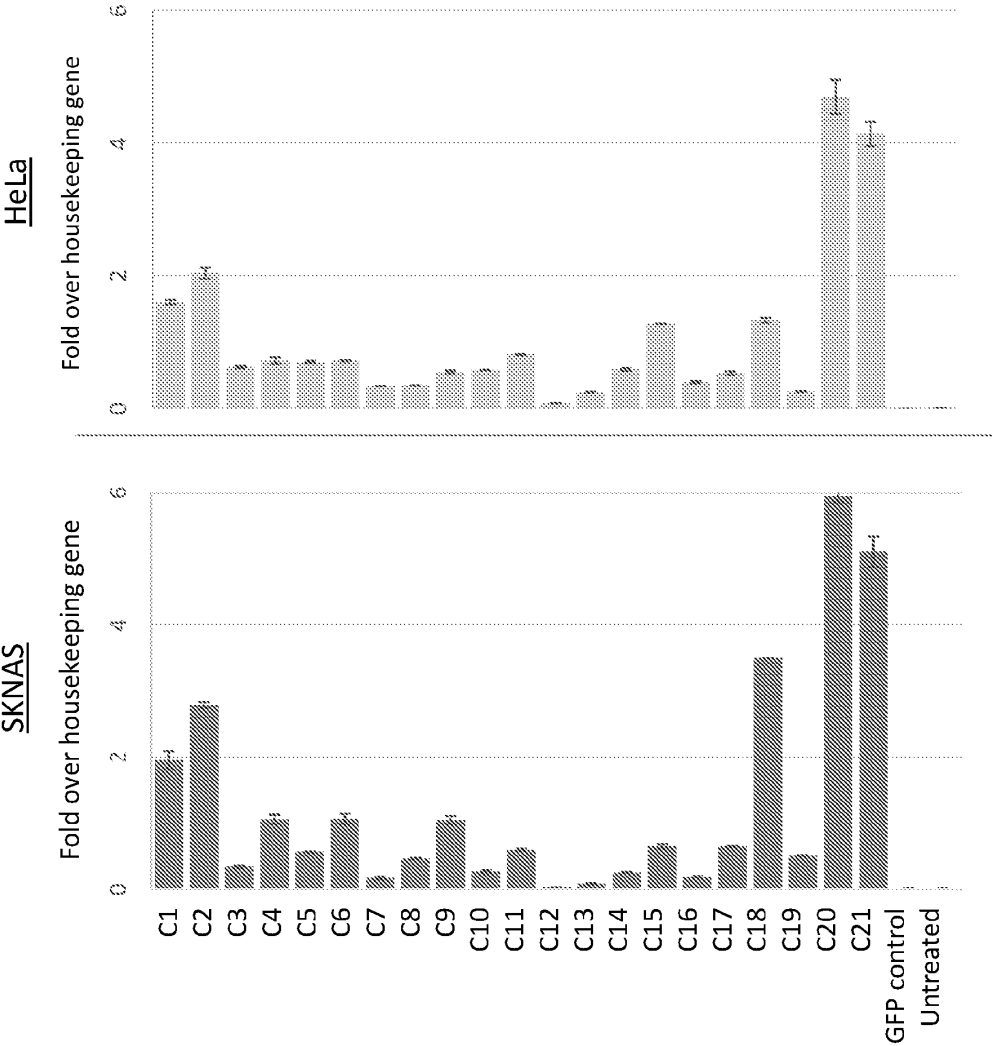


FIG. 3

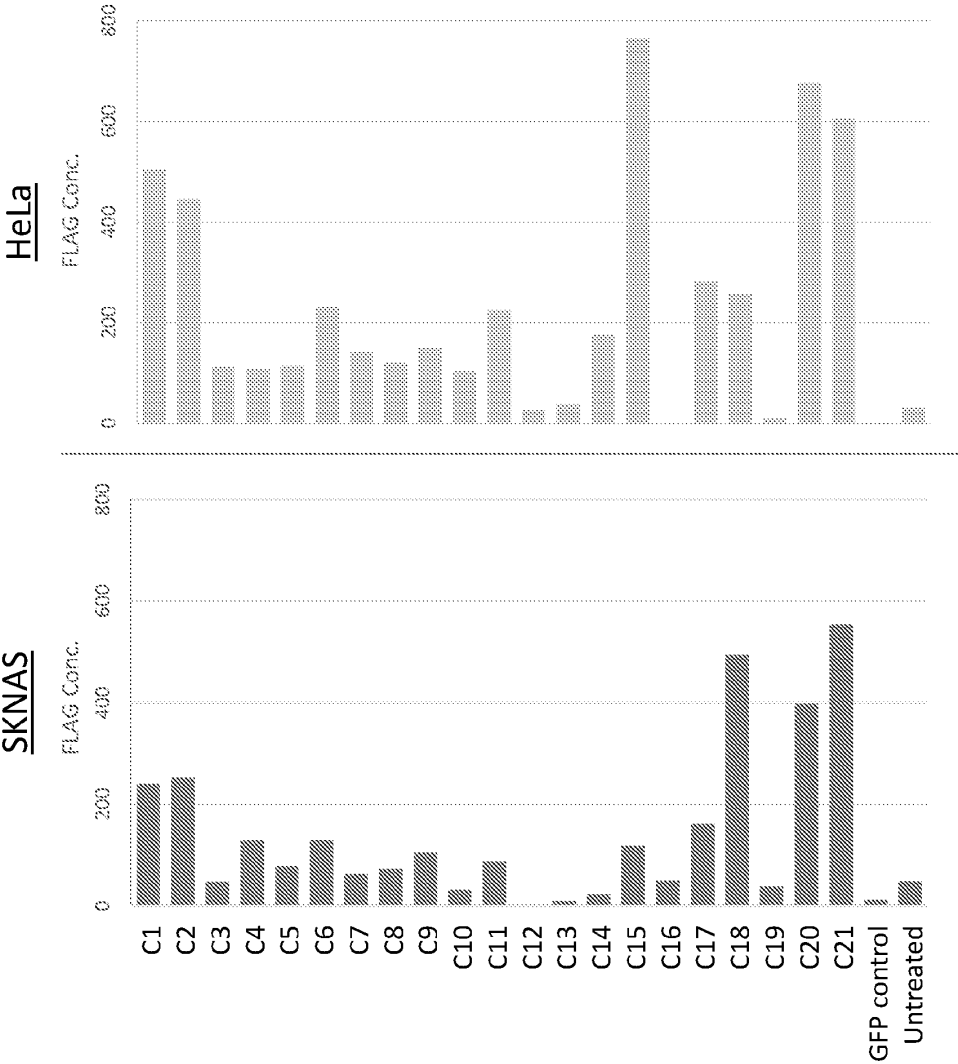


FIG. 4

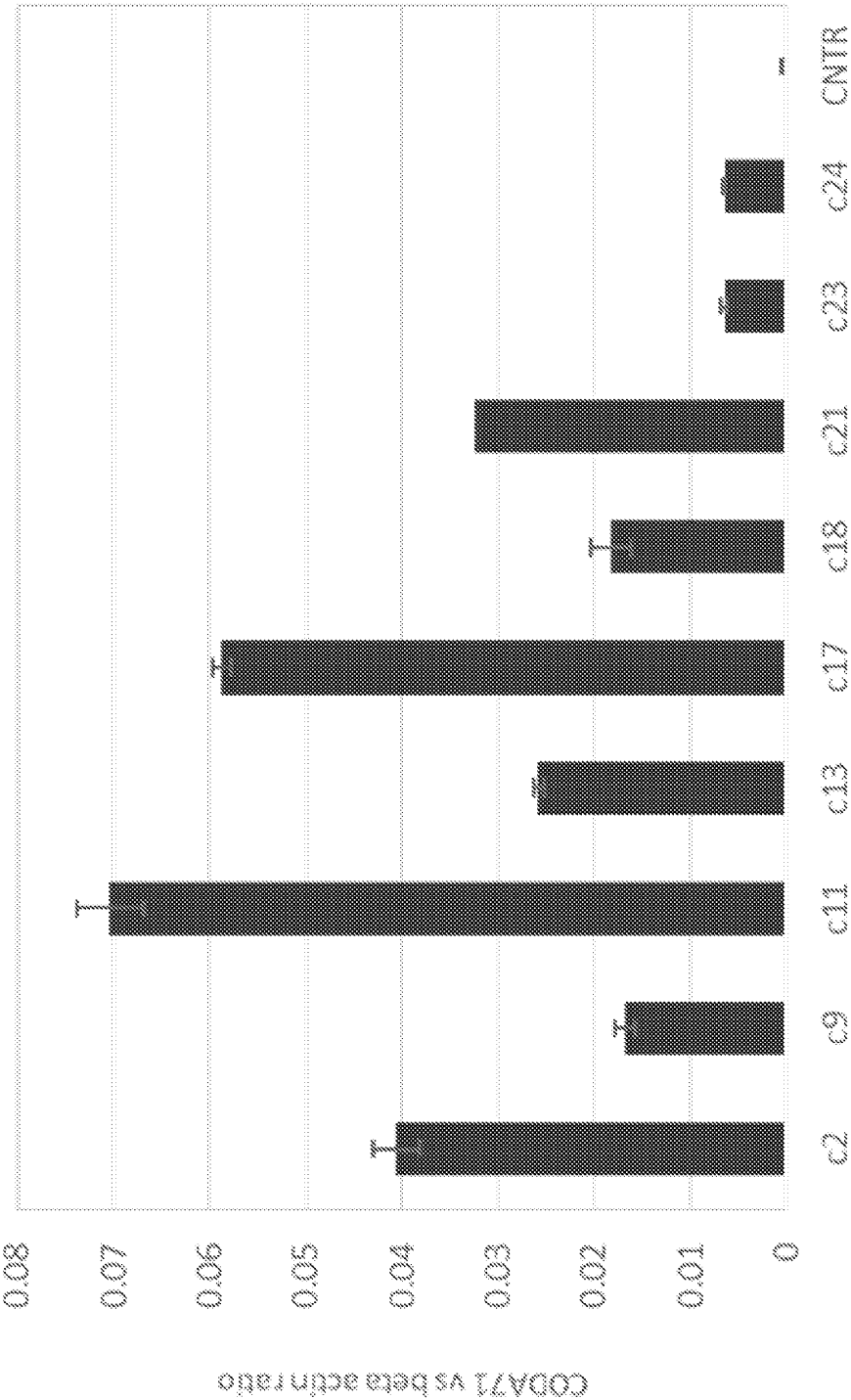
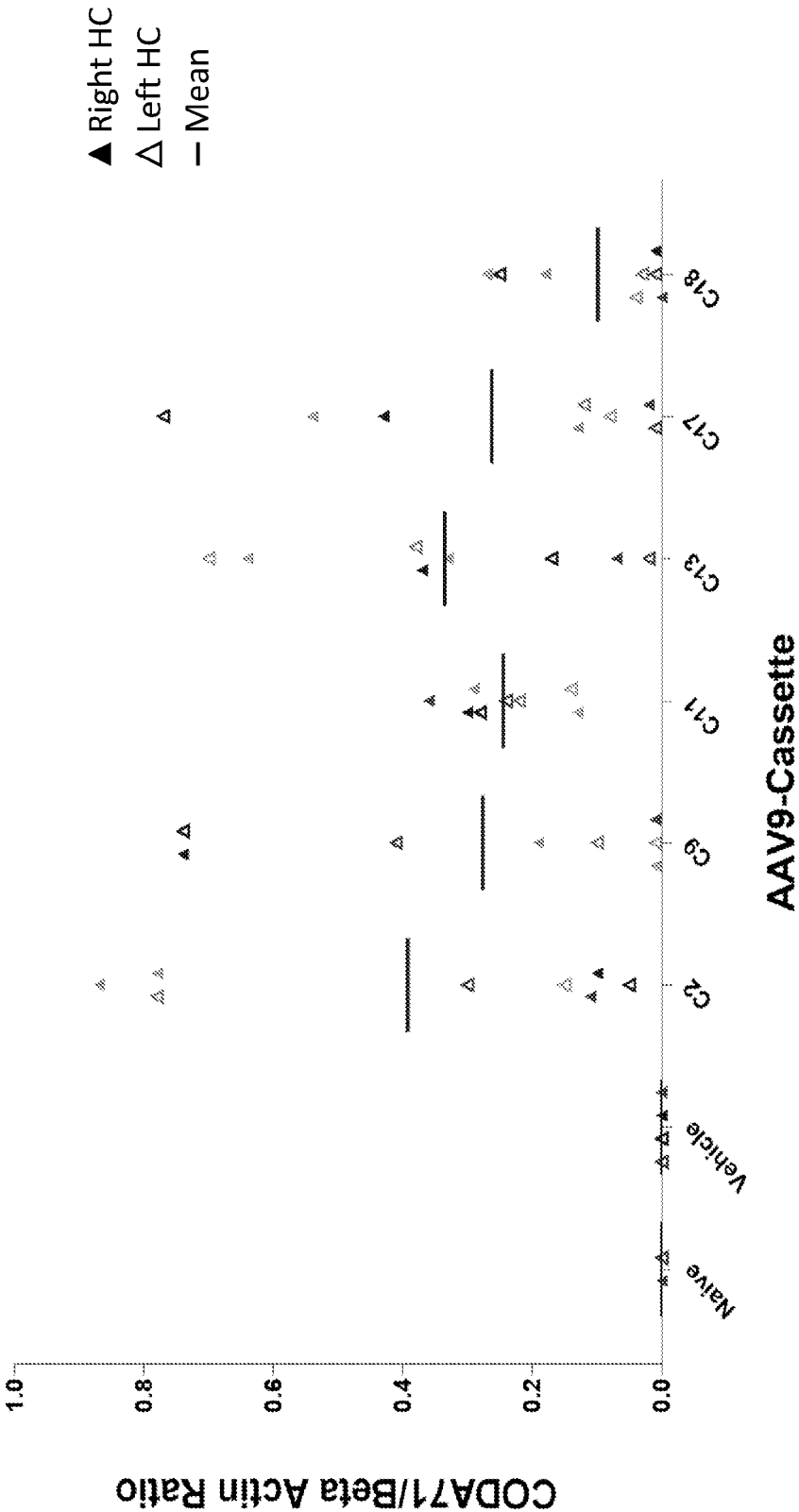
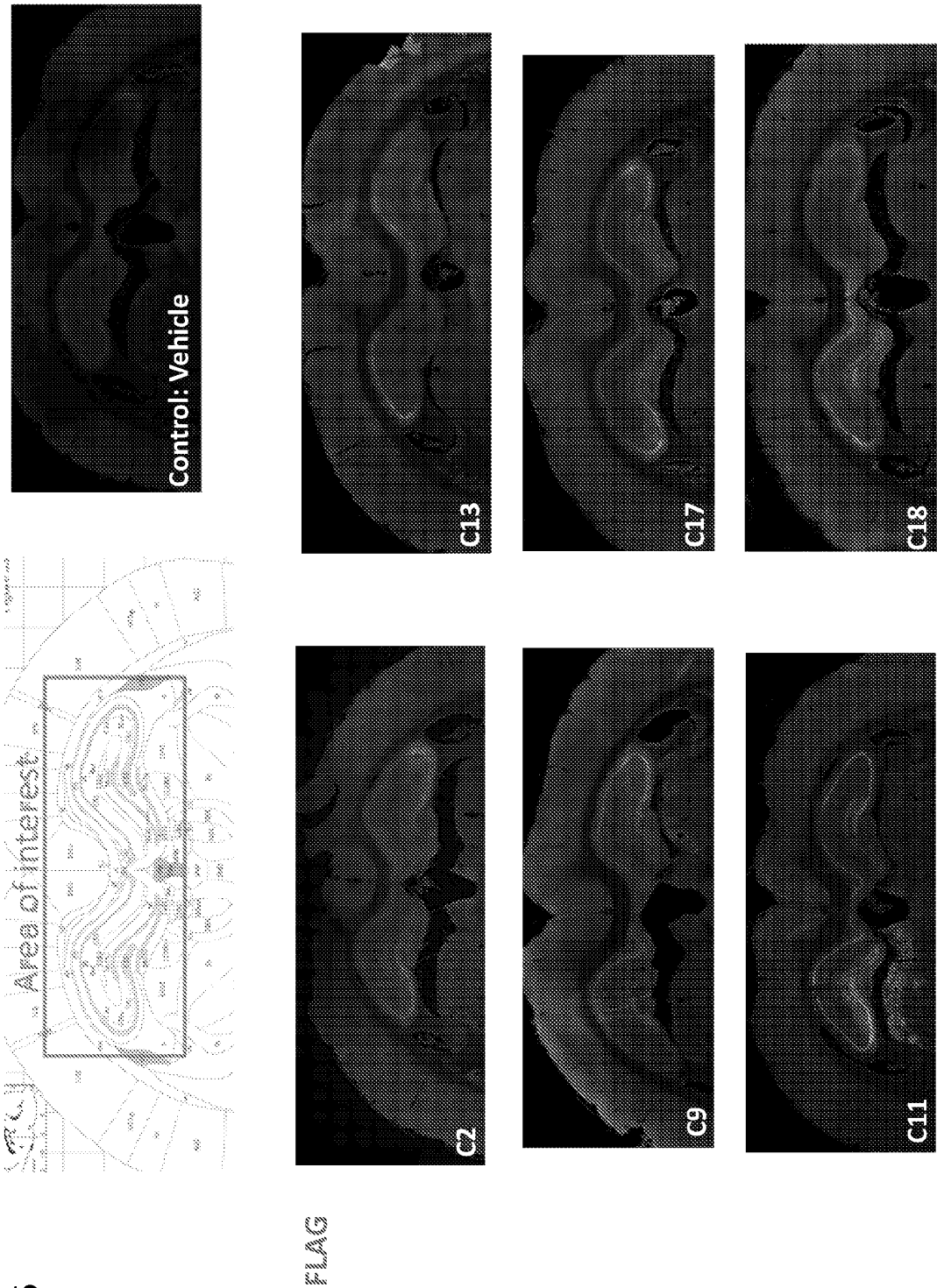
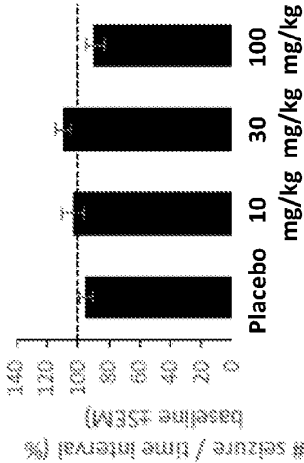


FIG. 5

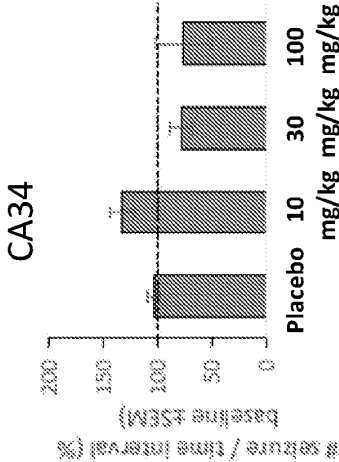




CASC (scrambled control)



Medium Expression



Low Expression

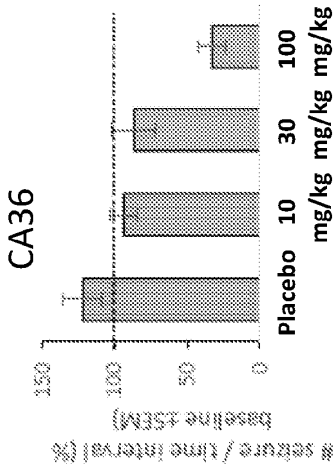
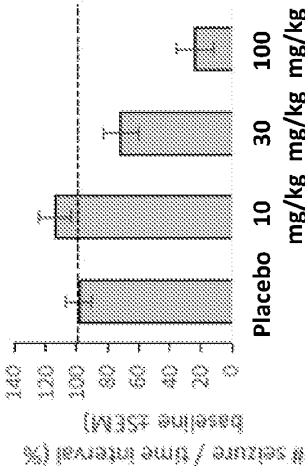


FIG. 7

excitatory neurons



all neurons

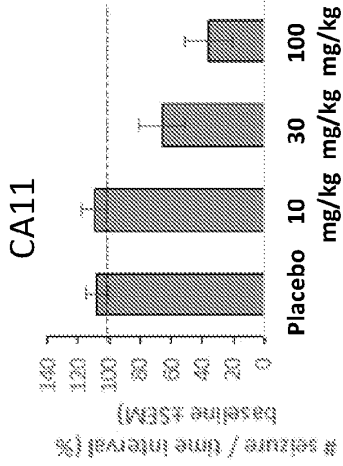
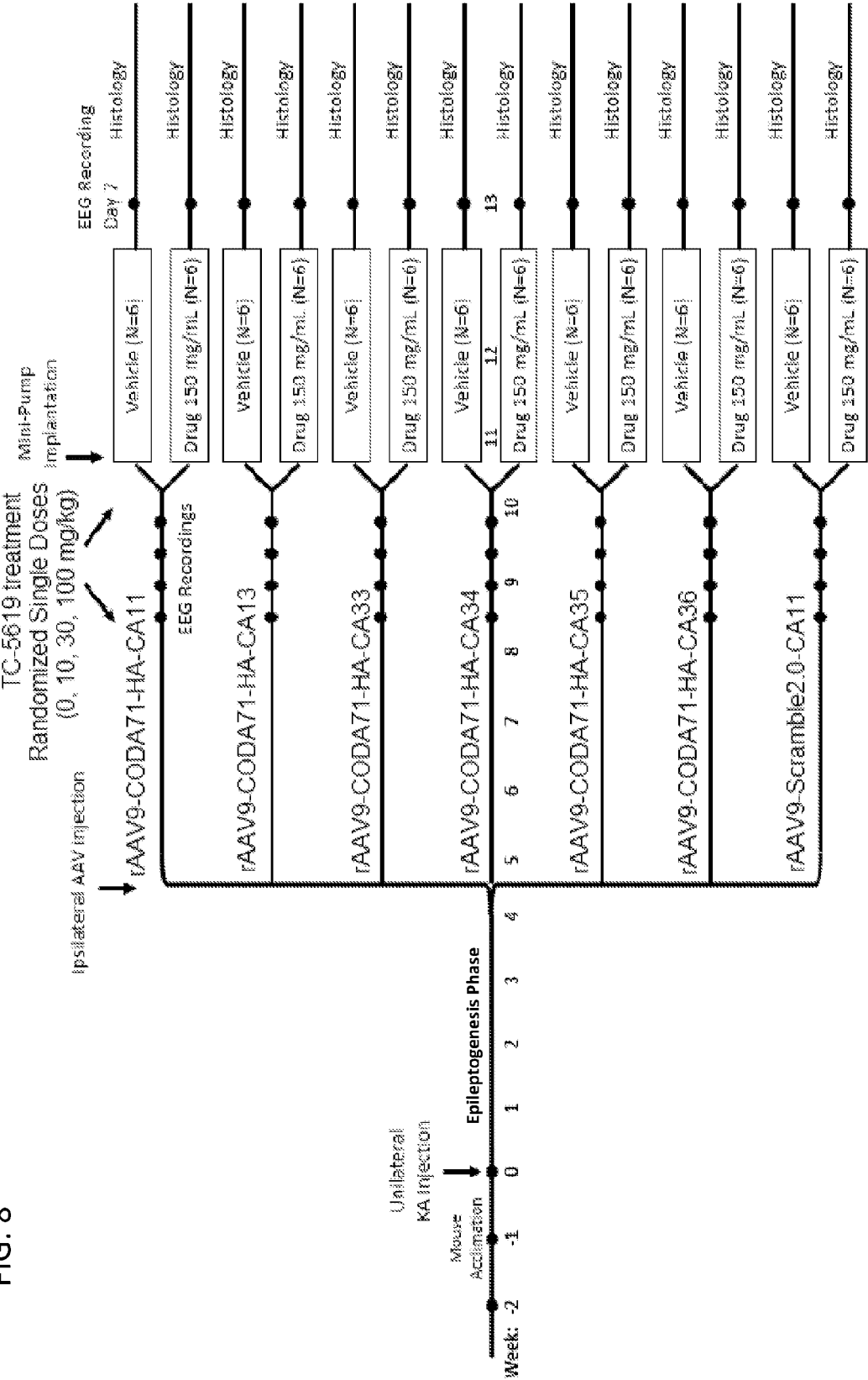


FIG. 8



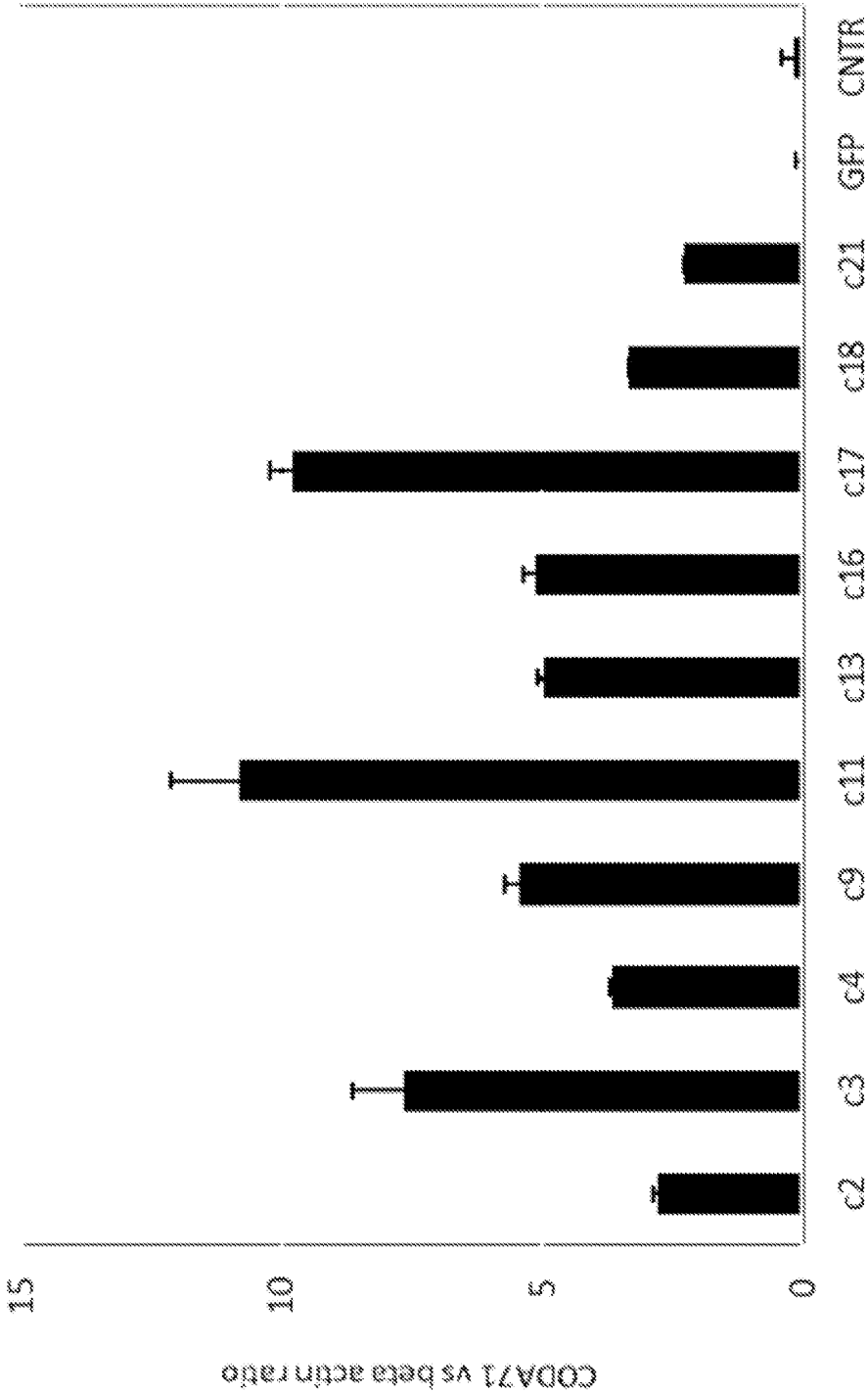


FIG. 9

FIG. 10

