

APPENDICES

Appendix 1. rtTA RT-Q-PCR from brain result for choosing the best PrP-rtTA founder

Well	Sample Name	Remark	Detector	Ct	StdDev Ct	Tm	Ct average	delta Ct	ddCt	fold change	average FC	SD FC
A1	09-26426-0	PrP1	RH_rtTA	29.13	0.448	85.3	29.23	8.84	-1.51	2.84	1.96	0.88
A2	09-26426-0	PrP1	RH_rtTA	29.72	0.448	85.3						
A3	09-26426-0	PrP1	RH_rtTA	28.84	0.448	85.5						
A4	09-26426-1	PrP1	RH_rtTA	31.54	0.995	85.5	30.86	9.82	-0.53	1.44		
A5	09-26426-1	PrP1	RH_rtTA	31.32	0.995	85.5						
A6	09-26426-1	PrP1	RH_rtTA	29.72	0.995	85.5						
A7	09-26609-0	PrP1	RH_rtTA	31.21	0.445	85.5	31.04	10.35	0.00	1.00		
A8	09-26609-0	PrP1	RH_rtTA	30.54	0.445	85.3						
A9	09-26609-0	PrP1	RH_rtTA	31.38	0.445	85.3						
A10	09-26609-2	PrP1	RH_rtTA	30.19	0.586	85.3	29.51	9.00	-1.35	2.54		
A11	09-26609-2	PrP1	RH_rtTA	29.21	0.586	85						
A12	09-26609-2	PrP1	RH_rtTA	29.14	0.586	85						
B1	10-12096-0	PrP3	RH_rtTA	29.64	0.148	85.5	29.47	6.99	-3.36	10.27	7.65	2.66
B2	10-12096-0	PrP3	RH_rtTA	29.37	0.148	85.5						
B3	10-12096-0	PrP3	RH_rtTA	29.41	0.148	85.5						
B4	10-12096-2	PrP3	RH_rtTA	28.63	0.302	85.5	28.31	7.80	-2.55	5.86		
B5	10-12096-2	PrP3	RH_rtTA	28.29	0.302	85.8						
B6	10-12096-2	PrP3	RH_rtTA	28.02	0.302	85.5						
B7	10-12096-3	PrP3	RH_rtTA	28.28	0.561	85.5	27.64	7.09	-3.26	9.56		
B8	10-12096-3	PrP3	RH_rtTA	27.44	0.561	85.5						
B9	10-12096-3	PrP3	RH_rtTA	27.21	0.561	85.5						
B10	10-12096-7	PrP3	RH_rtTA	28.35	0.47	85.3	28.50	8.05	-2.30	4.91		

B11	10-12096-7	PrP3	RH_rtTA	28.13	0.47	85.3			
B12	10-12096-7	PrP3	RH_rtTA	29.03	0.47	85			
C1	negative control		RH_rtTA	34.74	1.394	77	34.74	14.07	3.73
C2	negative control		RH_rtTA	33.35	1.394	85.8			
C3	negative control		RH_rtTA	36.14	1.394	79.1			
C4	positive control		RH_rtTA	32.06	0.667	85.8	31.36	10.07	-0.28
C5	positive control		RH_rtTA	30.74	0.667	85.8			1.21
C6	positive control		RH_rtTA	31.29	0.667	86.1			
C7	Positive no enzyme		RH_rtTA		Undetermined	79.1	#DIV/0!	#DIV/0!	
C8	Positive no enzyme		RH_rtTA		Undetermined	78.1			
C9	Positive no enzyme		RH_rtTA		Undetermined	79.3			
C10	water		RH_rtTA	33.42		85.5	34.85		2.87
C11	water		RH_rtTA	33.21		79.1			
C12	water		RH_rtTA	37.91		79.6			
D1	water		RH_rtTA		Undetermined	83.7	#DIV/0!	#DIV/0!	
D2	water		RH_rtTA		Undetermined	79.3			
D3	water		RH_rtTA		Undetermined	79.3			
E1	09-26426-0	PrP1	GAPDH	20.41	0.063	79.3	20.39		
E2	09-26426-0	PrP1	GAPDH	20.32	0.063	79.6			
E3	09-26426-0	PrP1	GAPDH	20.44	0.063	79.6			
E4	09-26426-1	PrP1	GAPDH	21.03	0.045	79.3	21.04		
E5	09-26426-1	PrP1	GAPDH	21	0.045	79.8			
E6	09-26426-1	PrP1	GAPDH	21.09	0.045	79.6			
E7	09-26609-0	PrP1	GAPDH	20.6	0.096	79.1	20.70		
E8	09-26609-0	PrP1	GAPDH	20.8	0.096	79.1			
E9	09-26609-0	PrP1	GAPDH	20.69	0.096	79.3			
E10	09-26609-2	PrP1	GAPDH	20.38	0.128	79.3	20.51		
E11	09-26609-2	PrP1	GAPDH	20.64	0.128	79.1			

E12	09-26609-2	PrP1	GAPDH	20.52	0.128	78.8	78.8
F1	10-12096-0	PrP3	GAPDH	22.63	0.125	78.8	22.49
F2	10-12096-0	PrP3	GAPDH	22.42	0.125	79.1	79.1
F3	10-12096-0	PrP3	GAPDH	22.41	0.125	79.1	79.1
F4	10-12096-2	PrP3	GAPDH	20.66	0.346	79.3	20.52
F5	10-12096-2	PrP3	GAPDH	20.77	0.346	79.3	79.3
F6	10-12096-2	PrP3	GAPDH	20.12	0.346	85.5	85.5
F7	10-12096-3	PrP3	GAPDH	20.5	0.06	79.6	20.55
F8	10-12096-3	PrP3	GAPDH	20.54	0.06	79.3	79.3
F9	10-12096-3	PrP3	GAPDH	20.62	0.06	79.3	79.3
F10	10-12096-7	PrP3	GAPDH	20.41	0.055	79.3	20.45
F11	10-12096-7	PrP3	GAPDH	20.52	0.055	79.1	79.1
F12	10-12096-7	PrP3	GAPDH	20.43	0.055	78.8	78.8
G1	negative control		GAPDH	20.69	0.02	79.1	20.67
G2	negative control		GAPDH	20.65	0.02	78.8	78.8
G3	negative control		GAPDH	20.67	0.02	79.1	79.1
G4	positive control		GAPDH	21.39	0.084	79.3	21.30
G5	positive control		GAPDH	21.23	0.084	79.3	79.3
G6	positive control		GAPDH	21.27	0.084	79.3	79.3
G7	Positive no enzyme		GAPDH	31.08	0.975	84.2	31.97
G8	Positive no enzyme		GAPDH	31.83	0.975	78.8	78.8
G9	Positive no enzyme		GAPDH	33.01	0.975	78.3	78.3
G10	water		GAPDH	32.75		78.1	31.98
G11	water		GAPDH	31.05		78.3	78.3
G12	water		GAPDH	32.14		78.3	78.3
H1	water		GAPDH	28.58		84.7	30.17
H2	water		GAPDH	30.84		77.8	77.8
H3	water		GAPDH	31.09		84.4	84.4

Appendix 2. Western blot for GFP in liver of mice from founder 39 vs 31 of Tet-on-99CGG-eGFP

Name	Genotype	Remark	Signal	I.I.(K Counts)	Channel	gfp/gapdh	fold change	average FC	SD FC
10-16115-01	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	GFP	14.96	700	0.510	2.540	2.501	1.482
				1.18	800				
10-16115-02	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	GFP	4.49	700	0.201	1.000		
				0.73	800				
10-16115-06 (-)	hnRNP-rtTA	TRE[39]	GFP	0.24	700	0.005	0.025		
				0.57	800				
10-16115-07	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	GFP	16.81	700	0.796	3.963		
				0.42	800				
10-16120-03	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	GFP	175.65	700	5.252	26.143	29.036	2.529
				2.67	800				
10-16120-04 (-)	Tet-on-99CGG-eGFP	TRE[31]	GFP	0.93	700	0.038	0.188		
				2.38	800				
10-16120-05	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	GFP	138.55	700	6.056	30.142		
				3.66	800				
10-16120-07	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	GFP	202.72	700	6.193	30.824		
				2.22	800				
10-16115-01	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	Gapdh	-0.27	700				
				29.03	800				
10-16115-02	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	Gapdh	0.26	700				
				21.85	800				
10-16115-06 (-)	hnRNP-rtTA	TRE[39]	Gapdh	-0.09	700				
				27.45	800				
10-16115-07	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[39]	Gapdh	0.12	700				
				21.23	800				
10-16120-03	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	Gapdh	0.02	700				
				33.16	800				

10-16120-04 (-)	Tet-on-99CGG-eGFP	TRE[31]	Gapdh	-0.05	700
				23.08	800
10-16120-05	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	Gapdh	-0.04	700
				22.88	800
10-16120-07	Tet-on-99CGG-eGFP/hnRNP-rtTA	TRE[31]	Gapdh	0.04	700
				33.8	800

Appendix 3. RT-Q-PCR for GFP in liver of mice from founder 39 vs 31 of Tet-on-99CGG-eGFP

Well	Sample Name	Remark	Detector	Ct	average Ct	Sd	dCt	ddCt	FC	FC average	sd FC
A1	liver 10-16115-01	TRE[39]	RH_GFP	32.51	30.41	4.24	-1.34		defect		
A2	liver 10-16115-01	TRE[39]	RH_GFP	25.53							
A3	liver 10-16115-01	TRE[39]	RH_GFP	33.18							
A4	liver 10-16115-02	TRE[39]	RH_GFP	21.47	21.28	0.18	1.89	0.00	1.00	1.69	0.971
A5	liver 10-16115-02	TRE[39]	RH_GFP	21.25							
A6	liver 10-16115-02	TRE[39]	RH_GFP	21.12							
A7	liver 10-16115-06 (-)	TRE[39]	RH_GFP	34.05	32.18	1.67	12.12	10.23	0.00		
A8	liver 10-16115-06 (-)	TRE[39]	RH_GFP	31.65							
A9	liver 10-16115-06 (-)	TRE[39]	RH_GFP	30.84							
A10	liver 10-16115-07	TRE[39]	RH_GFP	20.39	20.28	0.12	0.64	-1.25	2.37		
A11	liver 10-16115-07	TRE[39]	RH_GFP	20.16							
A12	liver 10-16115-07	TRE[39]	RH_GFP	20.3							
B1	liver 10-16120-03	TRE[31]	RH_GFP	17.12	17.20	0.07	-1.56	-3.45	10.90	8.37	4.347
B2	liver 10-16120-03	TRE[31]	RH_GFP	17.24							
B3	liver 10-16120-03	TRE[31]	RH_GFP	17.24							
B4	liver 10-16120-04 (-)	TRE[31]	RH_GFP	28.38	27.94	0.39	8.49	6.60	0.01		
B5	liver 10-16120-04 (-)	TRE[31]	RH_GFP	27.65							
B6	liver 10-16120-04 (-)	TRE[31]	RH_GFP	27.79							

B7	liver 10-16120-05	TRE[31]	RH_GFP	19.72	19.74	0.03	0.14	-1.74	3.35
B8	liver 10-16120-05	TRE[31]	RH_GFP	19.73					
B9	liver 10-16120-05	TRE[31]	RH_GFP	19.78					
B10	liver 10-16120-07	TRE[31]	RH_GFP	17.86	17.98	0.10	-1.55	-3.44	10.85
B11	liver 10-16120-07	TRE[31]	RH_GFP	18.04					
B12	liver 10-16120-07	TRE[31]	RH_GFP	18.03					
C1	pos ctrl -enz		RH_GFP	32.98	32.73	0.55			
C2	pos ctrl -enz		RH_GFP	32.1					
C3	pos ctrl -enz		RH_GFP	33.12					
C4	water		RH_GFP	34.06	33.27	0.99			
C5	water		RH_GFP	33.6					
C6	water		RH_GFP	32.16					
D1	liver 10-16115-01	TRE[39]	RH_gapdh	32.16	31.75	0.36	31.75		
D2	liver 10-16115-01	TRE[39]	RH_gapdh	31.57					
D3	liver 10-16115-01	TRE[39]	RH_gapdh	31.52					
D4	liver 10-16115-02	TRE[39]	RH_gapdh	19.38	19.39	0.08	19.39		
D5	liver 10-16115-02	TRE[39]	RH_gapdh	19.32					
D6	liver 10-16115-02	TRE[39]	RH_gapdh	19.48					
D7	liver 10-16115-06 (-)	TRE[39]	RH_gapdh	20.04	20.06	0.08	20.06		
D8	liver 10-16115-06 (-)	TRE[39]	RH_gapdh	20.15					
D9	liver 10-16115-06 (-)	TRE[39]	RH_gapdh	20					
D10	liver 10-16115-07	TRE[39]	RH_gapdh	19.56	19.64	0.08	19.64		
D11	liver 10-16115-07	TRE[39]	RH_gapdh	19.65					
D12	liver 10-16115-07	TRE[39]	RH_gapdh	19.72					
E1	liver 10-16120-03	TRE[31]	RH_gapdh	18.84	18.76	0.09	18.76		
E2	liver 10-16120-03	TRE[31]	RH_gapdh	18.77					
E3	liver 10-16120-03	TRE[31]	RH_gapdh	18.67					
E4	liver 10-16120-04 (-)	TRE[31]	RH_gapdh	19.39	19.45	0.06	19.45		

E5	liver 10-16120-04 (-)	TRE[31]	RH_gapdh	19.48			
E6	liver 10-16120-04 (-)	TRE[31]	RH_gapdh	19.49			
E7	liver 10-16120-05	TRE[31]	RH_gapdh	19.73	19.60	0.22	19.60
E8	liver 10-16120-05	TRE[31]	RH_gapdh	19.72			
E9	liver 10-16120-05	TRE[31]	RH_gapdh	19.35			
E10	liver 10-16120-07	TRE[31]	RH_gapdh	19.29	19.53	0.21	19.53
E11	liver 10-16120-07	TRE[31]	RH_gapdh	19.6			
E12	liver 10-16120-07	TRE[31]	RH_gapdh	19.7			
F1	pos ctrl -enz		RH_gapdh	29.03	29.62	0.63	29.62
F2	pos ctrl -enz		RH_gapdh	30.29			
F3	pos ctrl -enz		RH_gapdh	29.54			
F4	water		RH_gapdh	33.31	32.47	1.16	32.47
F5	water		RH_gapdh	32.94			
F6	water		RH_gapdh	31.15			

Appendix 4. RT-Q-PCR for GFP after different time points of dox treatment

Well	Sample Name	Remark	Detector	Ct	StdDev Ct	Tm	average Ct	delta Ct	ddCt	FC
A1	10-12096-7	2 weeks	gfp	28.4	0.095	81.1	28.29	6.18	0.00	1.00
A2	10-12096-7		gfp	28.26	0.095	81.4				
A3	10-12096-7		gfp	28.21	0.095	81.4				
A4	10-12096-0	4 weeks	gfp	29.4	0.054	81.4	29.35	5.78	-0.40	1.32
A5	10-12096-0		gfp	29.29	0.054	81.4				
A6	10-12096-0		gfp	29.35	0.054	81.4				
A7	10-12096-1	4 weeks (-)	gfp	29.75	0.123	81.4	29.73	7.78	1.60	0.33
A8	10-12096-1		gfp	29.6	0.123	81.4				
A9	10-12096-1		gfp	29.85	0.123	81.1				
A10	10-12096-3	12 weeks	gfp	27.17	0.041	81.1	27.13	5.09	-1.09	2.13

A11	10-12096-3						gfp	27.14	0.041	81.1						
A12	10-12096-3						gfp	27.09	0.041	80.9						
B1	10-12096-8	12 weeks (-)					gfp	28.91	0.19	81.1	29.11	6.76	0.57	0.67		
B2	10-12096-8						gfp	29.29	0.19	81.4						
B3	10-12096-8						gfp	29.12	0.19	81.4						
B4	10-12096-2	16 weeks					gfp	27.26	0.096	81.7	27.24	5.40	-0.78	1.72		
B5	10-12096-2						gfp	27.33	0.096	81.7						
B6	10-12096-2						gfp	27.14	0.096	81.7						
B7	10-12096-9	16 weeks (-)					gfp	29.49	0.057	81.7	29.55	7.34	1.16	0.45		
B8	10-12096-9						gfp	29.55	0.057	81.7						
B9	10-12096-9						gfp	29.6	0.057	81.4						
B10	10-12096-7-kidney (+)						gfp	21.9	0.124	81.4	22.04	0.45	-5.73	53.08		
B11	10-12096-7-kidney (+)						gfp	22.13	0.124	81.1						
B12	10-12096-7-kidney (+)						gfp	22.1	0.124	81.1						
C1	7-kidney –enzyme						gfp	30.7	2.053	81.1	32.02	-1.59				
C2	7-kidney –enzyme						gfp	34.39	2.053	81.4						
C3	7-kidney –enzyme						gfp	30.97	2.053	81.4						
C4	Water						gfp	33.85		81.7	32.62	-0.25				
C5	Water						gfp	30.57		81.7						
C6	Water						gfp	33.45		81.4						
C7	Water						gfp	35.66		81.4	37.23					
C8	Water						gfp	Undetermined		74.7						
C9	Water						gfp	38.8		74.5						
C10	Water						gfp	Undetermined		75	34.79					
C11	Water						gfp	34.36		81.1						
C12	Water						gfp	35.22		80.9						
D1	10-12096-7	2 weeks					GAPDH	22.17	0.085	79.5	22.11					
D2	10-12096-7						GAPDH	22.14	0.085	79.5						

D3	10-12096-7	GAPDH	22.01	0.085	79.7	
D4	10-12096-0	GAPDH	23.48	0.103	79.7	23.56
D5	10-12096-0	GAPDH	23.53	0.103	79.7	
D6	10-12096-0	GAPDH	23.68	0.103	79.7	
D7	10-12096-1	GAPDH	21.79	0.209	79.5	21.95
D8	10-12096-1	GAPDH	22.19	0.209	79.7	
D9	10-12096-1	GAPDH	21.88	0.209	79.5	
D10	10-12096-3	GAPDH	22.03	0.017	79.5	22.04
D11	10-12096-3	GAPDH	22.03	0.017	79.2	
D12	10-12096-3	GAPDH	22.06	0.017	79	
E1	10-12096-8	GAPDH	21.85	0.921	79.2	22.35
E2	10-12096-8	GAPDH	21.79	0.921	79.5	
E3	10-12096-8	GAPDH	23.41	0.921	79.2	
E4	10-12096-2	GAPDH	21.88	0.051	79.7	21.84
E5	10-12096-2	GAPDH	21.86	0.051	79.7	
E6	10-12096-2	GAPDH	21.78	0.051	79.7	
E7	10-12096-9	GAPDH	22.18	0.105	79.7	22.21
E8	10-12096-9	GAPDH	22.12	0.105	79.7	
E9	10-12096-9	GAPDH	22.32	0.105	79.5	
E10	10-12096-7-kidney (+)	GAPDH	21.45	0.123	79.2	21.59
E11	10-12096-7-kidney (+)	GAPDH	21.69	0.123	79	
E12	10-12096-7-kidney (+)	GAPDH	21.63	0.123	78.7	
F1	7-kidney -enzyme	GAPDH	34.29	2.529	79.2	33.61
F2	7-kidney -enzyme	GAPDH	30.81	2.529	82.4	
F3	7-kidney -enzyme	GAPDH	35.73	2.529	79	
F4	water	GAPDH	34.66		78.7	32.88
F5	water	GAPDH	28.91		83.5	
F6	water	GAPDH	35.06		79.2	

F7	water	GAPDH	34.9	78.7	34.61
F8	water	GAPDH	34.47	78.2	
F9	water	GAPDH	34.47	78.4	
F10	water	GAPDH	32.57	78.7	30.84
F11	water	GAPDH	30.83	83.5	
F12	water	GAPDH	29.12	83.2	

Appendix 5. Western blot for GFP after different time points of dox treatment

Id	Genotype	Name	I.I.(K Counts)	Channel	Sample	Remark	GFP/Gapdh	FC
10-12096-7	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks GFP bi	3.66	700	A	2 weeks	0.06	1.00
10-12096-7	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks GFP bi	2.25	800				
10-12096-0	Tet-on-99CGG-eGFP/PrP-rtTA	4 weeks GFP bi	17.77	700	B	4 weeks	0.22	3.87
10-12096-0	Tet-on-99CGG-eGFP/PrP-rtTA	4 weeks GFP bi	7.37	800				
10-12096-1	Tet-on-99CGG-eGFP	4 weeks GFP mo	1.21	700	C	12 weeks	0.11	1.89
10-12096-1	Tet-on-99CGG-eGFP	4 weeks GFP mo	0.75	800				
10-12096-3	Tet-on-99CGG-eGFP/PrP-rtTA	12 weeks GFP bi	3.71	700	D	16 weeks	0.30	5.40
10-12096-3	Tet-on-99CGG-eGFP/PrP-rtTA	12 weeks GFP bi	1.57	800				
10-12096-8	Tet-on-99CGG-eGFP	12 weeks GFP mo	1.08	700				
10-12096-8	Tet-on-99CGG-eGFP	12 weeks GFP mo	0.47	800				
10-12096-2	Tet-on-99CGG-eGFP/PrP-rtTA	16 weeks GFP bi	23.09	700				
10-12096-2	Tet-on-99CGG-eGFP/PrP-rtTA	16 weeks GFP bi	9.46	800				
10-12096-9	Tet-on-99CGG-eGFP	16 weeks GFP mo	1.56	700				
10-12096-9	Tet-on-99CGG-eGFP	16 weeks GFP mo	1.91	800				
10-12096-7-kidney (+)	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks GFP kidney	12.58	700				
10-12096-7-kidney (+)	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks GFP kidney	5.87	800				
10-12096-7	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks Gapdh	1.21	700				
10-12096-7	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks Gapdh	65.11	800				

10-12096-0	Tet-on-99CGG-eGFP/PrP-rtTA	4 weeks	Gapdh bi	1.34	700
10-12096-0	Tet-on-99CGG-eGFP/PrP-rtTA	4 weeks	Gapdh bi	81.66	800
10-12096-1	Tet-on-99CGG-eGFP	4 weeks	Gapdh mo	1.2	700
10-12096-1	Tet-on-99CGG-eGFP	4 weeks	Gapdh mo	66.71	800
10-12096-3	Tet-on-99CGG-eGFP/PrP-rtTA	12 weeks	Gapdh bi	0.32	700
10-12096-3	Tet-on-99CGG-eGFP/PrP-rtTA	12 weeks	Gapdh bi	35	800
10-12096-8	Tet-on-99CGG-eGFP	12 weeks	Gapdh mo	0.77	700
10-12096-8	Tet-on-99CGG-eGFP	12 weeks	Gapdh mo	46.01	800
10-12096-2	Tet-on-99CGG-eGFP/PrP-rtTA	16 weeks	Gapdh bi	1.04	700
10-12096-2	Tet-on-99CGG-eGFP/PrP-rtTA	16 weeks	Gapdh bi	76.03	800
10-12096-9	Tet-on-99CGG-eGFP	16 weeks	Gapdh mo	1.48	700
10-12096-9	Tet-on-99CGG-eGFP	16 weeks	Gapdh mo	68.64	800
10-12096-7-kidney (+)	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks	Gapdh kidney	-0.43	700
10-12096-7-kidney (+)	Tet-on-99CGG-eGFP/PrP-rtTA	2 weeks	Gapdh kidney	5.99	800

Appendix 6. Ethical clearance documents