Supplementary Table 1. Tumor properties from asymptomatic adult Mut3 or Mut4 mice used for MRI

Genotype	ID	Age (weeks) ^a	Tumor volume ^b		Growth per	Grade	Ki67 density (%) ^c
			1 st scan	2 nd scan	week (%)	Grade	Kio/ delisity (%)
Mut3	8495	26.7	0.051 (1/05)	0.060 (1/13)	15.44	3	21.9
(n = 3)	9042	25.3	0.027 (2/16)	0.029 (2/23)	7.41	3	12.1
	11714	22.7	0.045 (8/10)	0.065 (8/17)	44.44	3	31.4
	mean	24.9		0.051	22.43 ± 11.25^{d}		21.8 ± 5.6^{d}
	8625	21.6				Excluded; no tumor detection for 3 weeks	
	9044	27.3	0.002 (2/23)	0.0022 (3/2)	10.00	Exclude	ed; too small tumor at 1 st scanning ^e
	11415	26.3				Exclude	ed; no tumor detection for 2 weeks
	11685	23.4				Excluded; no tumor detection for 2 weeks	
Mut4	8985	17.9	0.014 (12/12)	0.031 (12/19)	121.43	3	47.5
(n = 6)	9505	13.1	0.023 (12/27)	0.042 (1/5)	42.03	3	30.3
	9660	14.1	0.031 (1/13)	0.058 (1/20)	87.10	3	37.4
	10590	17.1	0.041 (4/13)	0.073 (4/20)	78.05	3	35.7
	10594	14.1	0.012 (3/23)	0.021 (3/30)	75.00	3	39.6
	12130	18.0	0.029 (8/10)	0.085 (8/17)	193.10	3	67.8
	mean	15.7		0.052	99.45 ± 23.46^{d}		$43.1 \pm 5.5^{\rm d}$
	9075	16.3				Excluded; death during 1 st scanning	
	9573	14.1	0.013 (1/5)			Excluded; death during 1 st scanning	
	10448	11.4				Excluded; no tumor detection for 6 weeks	
	10592	17.1	0.006 (4/13)	0.032 (4/20)	433.33	Excluded; too small tumor at 1 st scanning ^e Excluded; death before 2 nd scanning	
a A 4 4 1	10589	14.1	0.032 (3/23)				

^aAge at the first scan
^bTumor volume in cm³ (date of scanning)
^cKi67 density = the highest ratio of Ki67-positive cells / total cells (DAPI-positive) in a 0.44 X 0.35 mm² field

^dMean ± standard error mean

^eTumors with volume smaller than 0.01 cm³ at the 1st scan were excluded to compare tumors at a similar stage and size.

Supplementary Table 2. Sequence of PCR primers used to measure LOH of Nf1 and Pten

PCR for	Name	Sequence	Product size (bp)
Nf1 ^f	g54	5'-AATGT GAAAT TGGTG TCGAG TAAGG TAACC AC-3'	wt : 493
	g35	5'-TTAAG AGCAT CTGCT GCTCT TAGAG GGAA-3'	$loxP$: ~ 600
	g53	5'-TCAGA CTGAT TGTTG TACCT GATGG TTGTA CC-3'	<i>∆loxP</i> : ~300
$Pten^{\mathrm{f}}$	F2	5'-CCATC ACACT AAGGT CTGTG G-3'	wt : 135
	R	5'-ACTCC CACCA ATGAA CAAAC-3'	loxP: 346
	hD1	5'-CCAGT AGTGA TAGAA CGGAA GTC-3'	∆loxP: 410

Supplementary Table 3. Grade and location of malignant astrocytomas found in symptomatic Mut3, Mut4 or Mut6 mice

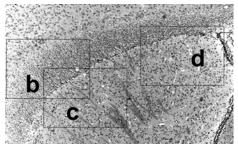
Mut3 1512 27.0 3 Thalamus/pons/Mb (n = 11) 2214 32.6 3 Most forebrain including SVZ 2512 13.0 4 Most forebrain including SVZ 2897 28.4 3 Most forebrain including SVZ 2898 26.0 3 Thalamus/pons 3853 31.0 3 St/SVZ/BS 5780 44.0 4 St/RMS/OB 6634 33.6 3.5 Cx, SVZ, BS 6953 28.4 3 Most forebrain including SVZ 8495 27.9 3 St/RMS 14047 16.7 4 St/RMS/SVZ/Thalamus/Ht Mut4 652 25.7 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CX/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 <th>Genotype</th> <th>ID</th> <th>Age (weeks)</th> <th>Grade</th> <th>Location of tumor</th>	Genotype	ID	Age (weeks)	Grade	Location of tumor
2512 13.0	Mut3	1512	27.0	3	Thalamus/pons/Mb
2897 28.4 3 Most forebrain including SVZ	(n = 11)	2214	32.6	3	<u> </u>
2898 26.0 3 Thalamus/pons 3853 31.0 3 St/SVZ/BS 5780 44.0 4 St/RMS/OB 6634 33.6 3 Cx, SVZ, BS 6953 28.4 3 Most forebrain including SVZ 8495 27.9 3 St/RMS 14047 16.7 4 St/RMS/SVZ/Thalamus/Ht Mut4 652 25.7 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb	,	2512	13.0	4	Most forebrain including SVZ
3853 31.0 3 St/SVZ/BS 5780		2897	28.4	3	Most forebrain including SVZ
5780 44.0 4 St/RMS/OB 6634 33.6 3 Cx, SVZ, BS 6953 28.4 3 Most forebrain including SVZ 8495 27.9 3 St/RMS 14047 16.7 4 St/RMS/SVZ/Thalamus/Ht Mut4 652 25.7 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/Cst 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ/Thalamus <td></td> <td>2898</td> <td>26.0</td> <td>3</td> <td>Thalamus/pons</td>		2898	26.0	3	Thalamus/pons
6634 33.6 3 Cx, SVZ, BS 6953 28.4 3 Most forebrain including SVZ 8495 27.9 3 St/RMS 14047 16.7 4 St/RMS/SVZ/Thalamus/Ht Mut4 652 25.7 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		3853	31.0	3	St/SVZ/BS
6953 28.4 3 Most forebrain including SVZ 8495 27.9 3 St/RMS 14047 16.7 4 St/RMS/SVZ/Thalamus/Ht Mut4 652 25.7 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		5780	44.0	4	St/RMS/OB
8495		6634	33.6	3	Cx, SVZ, BS
S495		6953	28.4	3	Most forebrain including SVZ
Mut4 (n = 10) 652 (25.7) 3 Pons/Cb (n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11998 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		8495	27.9		_
(n = 10) 749 16.7 4 Most forebrain including SVZ 2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11998 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 P		14047	16.7	4	St/RMS/SVZ/Thalamus/Ht
2244 13.1 3 CC/St 2247 14.1 3 Cx/CC, thalamus 2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus	Mut4	652	25.7	3	Pons/Cb
2247	(n = 10)	749	16.7	4	Most forebrain including SVZ
2735 14.9 3 Most forebrain including SVZ 2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		2244	13.1	3	CC/St
2737 22.3 4 RMS/St/CC/SVZ, Hp, BS 2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		2247	14.1	3	Cx/CC, thalamus
2901 28.4 3 Most brain, except Cb 2909 17.4 3 Most forebrain including SVZ 4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		2735	14.9	3	Most forebrain including SVZ
2909		2737	22.3	4	RMS/St/CC/SVZ, Hp, BS
4025 17.3 3 OB 5895 20.0 3 St/SVZ/thalamus Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		2901	28.4	3	Most brain, except Cb
Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		2909	17.4	3	Most forebrain including SVZ
Mut5 4567 23.4 4 St, caudal CC, Cb (n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		4025	17.3	3	OB
(n = 6) 11719 20.0 3 OB 11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		5895	20.0	3	St/SVZ/thalamus
11724 22.7 3 St/SVZ 11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus	Mut5	4567	23.4	4	St, caudal CC, Cb
11908 22.4 4 CC/SVZ/DG 11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus	(n = 6)	11719	20.0	3	OB
11995 26.6 4 St/SVZ/Thalamus 12365 20.0 4 Thalamus/Ht Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		11724	22.7	3	St/SVZ
Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		11908	22.4	4	CC/SVZ/DG
Mut6 5142 14.4 4 Caudal CC/Mb/Ht (n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		11995	26.6	4	St/SVZ/Thalamus
(n = 8) 5239 14.1 4 CC/Cx, BS 5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		12365	20.0	4	Thalamus/Ht
5245 12.9 4 Pons/Mb 5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus	Mut6	5142	14.4	4	Caudal CC/Mb/Ht
5586 14.3 4 Most forebrain including SVZ 8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus	(n = 8)	5239	14.1	4	CC/Cx, BS
8214 18.3 4 St, Caudal CC/Mb/Cb 8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		5245	12.9	4	Pons/Mb
8227 16.7 4 Most forebrain including SVZ 10427 17.9 4 St/SVZ/thalamus		5586	14.3	4	Most forebrain including SVZ
10427 17.9 4 St/SVZ/thalamus		8214	18.3	4	St, Caudal CC/Mb/Cb
		8227	16.7	4	Most forebrain including SVZ
10897 10.7 3 St, Cb		10427	17.9	4	St/SVZ/thalamus
		10897	10.7	3	St, Cb

BS, brain stem; CC, corpus callosum; Cb, cerebellum; Cx, cerebral cortex; DG, dentate gyrus; Hp, hippocampus; Ht, hypothalamus; Mb, midbrain; OB, olfactory bulb; RMS, rostral migratory stream; St, striatum; SVZ, subventricular zone

Supplementary Table 4. BrdU signals detected in the vicinity of the SVZ/RMS of 7-week-old mice one week after labeling

Construes	Mauga ID	Number of BrdU-positive cells ^a				
Genotype	Mouse ID	r. CC ^b	r. St ^c	c. St ^d		
Control:	12572	27	3	4		
$p53^{+/-}$	12574	26	6	7		
(n = 6)	12578	10	6	4		
	15357	32	5	6		
	15360	9	5	5		
	15512	21	4	4		
	average	$20.8 \pm 9.5^{\rm e}$	4.8 ± 1.2	5.0 ± 1.3		
cre; Pten ^{f/+}	9224	22	7	8		
(n=2)	15548	25	6	1		
Mut3	15374	25	7	2		
(n = 2)	15377	7	8	8		
Mut4	15510	24	2	3		
(n = 3)	15511^{f}	56	119	38		
	15546	16	6	6		
Mut5	12573	32	8	6		
(n = 3)	12575	11	8	7		
	12579	24	9	8		
Mut6	9219	59	9	14		
(n = 3)	9220	57	30	9		
	9221	37	32	28		

^aAnatomically matched sections were stained with BrdU antibody and subsequently visualized by Alexa-488-conjugated anti-mouse IgG antibody. BrdU-positive cells in below regions in a 0.87 X 0.69 mm² area were counted.



^bRostral corpus callosum

^cRostral striatum

^dCaudal striatum

^eMean ± standard deviation

^fMouse IDs and abnormally increased BrdU counting (more than twice of average of control) were highlighted by a bold font.