

TECHNICAL WHITE PAPER: GENOTYPES OF MICE USED IN THE ALLEN BRAIN OBSERVATORY

OVERVIEW

This information describes the genotype of the animals observed for collection of the Allen Brain Observatory calcium imaging data. In Table 1, the genotype is listed, with both alleles noted per gene; Ai93 is the reporter line, which contains the TITL-GCaMP6f construct. Data is grouped according to *Experiment containers*, which is a batch of experimental data, and anatomical areas and approximate depth of imaging are shown corresponding to each specimen. Notes are provided on particular specimens where applicable. In Table 2, a summary of aberrant data results is provided.

Epileptiform events refers to the occurrence of abnormal calcium activity detected in conjunction with widespread expression of GCaMP6. This refers to the presence of unusually large (>1 mV), long (width >10 ms) and correlated events in large portions of the dorsal cortex in affected animals, that resemble epileptiform inter-ictal events (Steinmetz et al., 2017). It is important to note that no seizures have been observed, and a screening step to exclude such animals from the pipeline has now been implemented.

Localized Deformation refers to the indentation of cortex or cerebellum observed after brain dissection and tissue analysis. These deformations appear to be related to the surgery. Any specimen with an overly large deformation, or deformation affecting the area of the surgical window was excluded from the dataset. A preliminary analysis showed no differences between the deformed and normal brains.

In some cases, anomalous brain morphology is noted. *Enlarged brain ventricles* may be due to physiological enlargement, or as an artifact of perfusion or dissection. The impact on data acquisition is unknown.

Table 1. Mouse genotypes and notes about specimens in the Allen Brain Observatory.

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|----------------|-------------------------|-------|------------|
| 221470 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511507811 | VISp | 350 |
| 222179 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511506664 | VISp | 275 |
| | | | 511507602 | VISpm | 275 |
| 222181 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511507144 | VISp | 275 |
| | | | 511510733 | VISpm | 275 |
| 222420 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510664 | VISal | 175 |
| | | | 511509529 | VISp | 175 |
| | | | 511510667 | VISp | 275 |
| 222424 | | | 511507650 | VISp | 175 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|-----------------------|-------------------------|-------|------------|
| | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510817 | VISpm | 175 |
| | | | 511510776 | VISpm | 275 |
| 222425 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510695 | VISal | 175 |
| | | | 511510650 | VISp | 175 |
| | | | 511510927 | VISp | 275 |
| 222426 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | Localized Deformation | 511510715 | VISal | 175 |
| | | | 511510640 | VISI | 175 |
| | | | 511510736 | VISp | 175 |
| 222431 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511510723 | VISal | 275 |
| | | | 511510627 | VISI | 275 |
| | | | 511510989 | VISp | 275 |
| 225036 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510797 | VISal | 175 |
| | | | 511510779 | VISp | 275 |
| | | | 511510753 | VISpm | 175 |
| 225037 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510670 | VISp | 175 |
| | | | 511510699 | VISp | 275 |
| | | | 511510822 | VISpm | 175 |
| 225039 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510688 | VISI | 175 |
| | | | 511510645 | VISpm | 175 |
| 226219 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 511510710 | VISal | 375 |
| | | | 511510896 | VISp | 375 |
| | | | 511510658 | VISpm | 375 |
| 228378 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511511052 | VISal | 275 |
| | | | 511510884 | VISp | 175 |
| 228379 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510867 | VISal | 275 |
| | | | 511510994 | VISI | 175 |
| 228786 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510860 | VISal | 275 |
| | | | 511510729 | VISI | 275 |
| | | | 511510675 | VISp | 275 |
| | | | 511511001 | VISpm | 275 |
| 229105 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | Epileptiform Events | 511510998 | VISal | 175 |
| | | | 511510681 | VISpm | 175 |
| 229106 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510855 | VISp | 175 |
| | | | 511510914 | VISpm | 175 |
| | | | 511510940 | VISpm | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|---------------------|-------------------------|-------|------------|
| 229107 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510917 | VISI | 175 |
| | | | 511510945 | VISI | 275 |
| 229109 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510848 | VISI | 275 |
| | | | 511510836 | VISpm | 275 |
| 229470 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510893 | VISpm | 175 |
| 229482 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511511029 | VISI | 275 |
| 230570 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511510911 | VISp | 350 |
| 231120 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511510794 | VISal | 275 |
| 231584 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511510788 | VISI | 175 |
| | | | 511510718 | VISp | 175 |
| 231585 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511856567 | VISal | 275 |
| | | | 511510870 | VISI | 275 |
| | | | 511498500 | VISpm | 275 |
| 231951 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511510955 | VISp | 275 |
| 231953 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511498742 | VISp | 350 |
| 232623 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 511500480 | VISal | 275 |
| | | | 511511011 | VISI | 275 |
| | | | 511510748 | VISpm | 275 |
| 233214 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511976252 | VISpm | 175 |
| 233215 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 511854338 | VISal | 275 |
| | | | 511511083 | VISpm | 175 |
| 233442 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511499656 | VISal | 375 |
| | | | 511510758 | VISp | 375 |
| | | | 511511006 | VISpm | 375 |
| 234584 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 511511089 | VISI | 375 |
| | | | 511511015 | VISpm | 375 |
| 234589 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 511510763 | VISI | 375 |
| 234831 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 512124562 | VISp | 275 |
| 237706 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | Epileptiform Events | 517328083 | VISp | 175 |
| | | | 527676429 | VISp | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|--|-------------------------|-------|------------|
| 243293 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 524691282 | VISp | 275 |
| 244884 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 526481129 | VISp | 275 |
| 244896 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | Epileptiform Events | 527550471 | VISp | 275 |
| 244898 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | | 529487170 | VISI | 275 |
| | | | 528959519 | VISp | 275 |
| 246775 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | Localized Deformation | 531134088 | VISp | 335 |
| | | | 528889127 | VISp | 350 |
| 248894 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 528792730 | VISp | 350 |
| 248895 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 528799602 | VISp | 350 |
| 249122 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 530739574 | VISp | 275 |
| 249136 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93 | Localized Deformation | 529770662 | VISp | 375 |
| 250605 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 529763300 | VISp | 350 |
| 250606 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Enlarged Brain Ventricle | 539291370 | VISp | 335 |
| | | | 531100608 | VISp | 350 |
| 250789 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 535575493 | VISp | 275 |
| | | | 540993888 | VISp | 350 |
| 251214 | Cux2-CreERT2/Cux2-CreERT2;Camk2a-tTA/wt;Ai93/Ai93 | Epileptiform Events, Localized Deformation | 530243910 | VISp | 275 |
| 252174 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 536323956 | VISp | 175 |
| 253302 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 531823088 | VISp | 275 |
| 255445 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 532233174 | VISp | 350 |
| 257786 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 538803515 | VISp | 350 |
| 260936 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 547315012 | VISI | 175 |
| | | | 543677425 | VISp | 175 |
| | | | 545578995 | VISp | 375 |
| 261458 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 540168835 | VISp | 375 |
| 261967 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 553452260 | VISal | 350 |
| | | | 550922597 | VISI | 350 |
| | | | 555749366 | VISpm | 350 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|-----------------------|-------------------------|-------|------------|
| 261969 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 546328009 | VISal | 350 |
| | | | 551412362 | VISam | 350 |
| | | | 549855418 | VISpm | 350 |
| 262562 | Scnn1a-Tg3-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 546724786 | VISp | 350 |
| 265161 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 551412603 | VISam | 275 |
| | | | 547561986 | VISI | 275 |
| 265164 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 547476353 | VISal | 275 |
| | | | 550127305 | VISam | 275 |
| | | | 546085409 | VISI | 275 |
| 266396 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 555042465 | VISal | 300 |
| | | | 556936862 | VISpm | 300 |
| 268133 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 552760668 | VISam | 275 |
| | | | 551888517 | VISpm | 275 |
| | | | 553568029 | VISrl | 275 |
| 268773 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 556899621 | VISam | 175 |
| | | | 551657958 | VISI | 175 |
| | | | 552749238 | VISI | 275 |
| 270341 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 553007101 | VISal | 350 |
| | | | 560821337 | VISam | 325 |
| | | | 554037268 | VISpm | 350 |
| 271727 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 556665479 | VISam | 350 |
| | | | 558476280 | VISI | 350 |
| | | | 557986062 | VISpm | 335 |
| 271729 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 556639822 | VISal | 350 |
| | | | 554219902 | VISI | 350 |
| | | | 560782654 | VISrl | 350 |
| 271732 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 560722730 | VISam | 350 |
| 271750 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93 | Localized Deformation | 555327033 | VISam | 375 |
| | | | 555040113 | VISp | 375 |
| | | | 554014018 | VISpm | 375 |
| 273576 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 555700037 | VISal | 175 |
| | | | 556936291 | VISal | 275 |
| | | | 557984490 | VISI | 275 |
| 273904 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 560821491 | VISpm | 325 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|-----------------------|-------------------------|-------|------------|
| 274234 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 560820973 | VISam | 435 |
| 276947 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 558471484 | VISI | 175 |
| 276948 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 557520762 | VISI | 175 |
| | | | 559792042 | VISI | 275 |
| 276949 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 561463418 | VISpm | 175 |
| | | | 565039910 | VISpm | 375 |
| 277933 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 560578597 | VISI | 350 |
| | | | 560809200 | VISpm | 350 |
| 277938 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 564791582 | VISam | 320 |
| | | | 566480479 | VISI | 325 |
| 279430 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 567919555 | VISI | 300 |
| | | | 569811199 | VISp | 300 |
| 279437 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 559645337 | VISam | 350 |
| | | | 560363325 | VISrl | 350 |
| 280638 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 561312433 | VISp | 275 |
| 280639 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 560753319 | VISal | 175 |
| | | | 561472631 | VISal | 275 |
| | | | 562536151 | VISal | 375 |
| 280643 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 560876149 | VISal | 175 |
| | | | 564791547 | VISal | 265 |
| | | | 564791561 | VISal | 365 |
| 282817 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 565216521 | VISam | 175 |
| | | | 566307034 | VISam | 275 |
| 282820 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 569287964 | VISam | 175 |
| | | | 566674370 | VISI | 275 |
| 283147 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 563364151 | VISal | 375 |
| | | | 564425775 | VISI | 175 |
| 283278 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | Localized Deformation | 570994450 | VISam | 175 |
| | | | 571541563 | VISrl | 175 |
| 283284 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 566759225 | VISam | 275 |
| | | | 569645688 | VISrl | 175 |
| | | | 570008442 | VISrl | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|---------------|--|-----------------------|-------------------------|-------------|------------|
| 284417 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 569251675 | VISam | 275 |
| | | | 569611977 | VISpm | 275 |
| | | | 569981238 | VISrl | 275 |
| 284418 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 569396922 | VISal | 275 |
| | | | 569718095 | VISam | 275 |
| 284669 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 566458503 | VISam | 175 |
| | | | 568461662 | VISam | 275 |
| | | | 569792815 | VISam | 375 |
| 286360 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | Localized Deformation | 570278595 | VISp | 350 |
| | | | 571039045 | VISrl | 350 |
| 286366 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93 | | 570428250 | VISrl | 350 |
| 288600 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 571137444 | VISp | 375 |
| | | | 571684731 | VISpm | 375 |
| 291462 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 572606380 | VISI | 375 |
| 291465 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 572607996 | VISal | 375 |
| | | | 575302106 | VISam | 375 |
| 291865 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 572376866 | VISal | 375 |
| | | | 573378109 | VISI | 375 |
| 292490 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 577720109 | VISam | 375 |
| | | | 575771818 | VISI | 375 |
| 295995 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 576411244 | VISam | 275 |
| 296462 | Sst-IRES-Cre/wt;Ai148/wt | | 579992884 | VISp | 275 |
| | | | 582621871 | VISp | 375 |
| 296702 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 573261513 | VISI | 275 |
| | | | 573864648 | VISrl | 175 |
| | | | 575892535 | VISrl | 275 |
| 296704 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 574034739 | VISrl | 175 |
| | | | 575710989 | VISrl | 275 |
| | | | 576714442 | VISrl | 375 |
| 296708 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93-hyg/wt | | 574529963 | VISpm | 175 |
| | | | 575766605 | VISpm | 275 |
| | | | 576208803 | VISrl | 175 |
| 296710 | Vip-IRES-Cre/wt;Ai148/wt | | 575772104 | VISI | 275 |
| 296891 | Sst-IRES-Cre/wt;Ai148/wt | | 580095653 | VISI | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|----------------|-------------------------|-------|------------|
| | | | 575827179 | VISp | 285 |
| | | | 577379200 | VISp | 375 |
| 297135 | Sst-IRES-Cre/wt;Ai148/wt | | 582804903 | VISp | 375 |
| 297504 | Sst-IRES-Cre/wt;Ai148/wt | | 580043437 | VISp | 275 |
| | | | 582925971 | VISp | 350 |
| 297507 | Sst-IRES-Cre/wt;Ai148/wt | | 581026086 | VISp | 275 |
| | | | 580163815 | VISp | 375 |
| 297620 | Sst-IRES-Cre/wt;Ai148/wt | | 573720506 | VISp | 275 |
| | | | 575940387 | VISp | 350 |
| 300424 | Sst-IRES-Cre/wt;Ai148/wt | | 581676514 | VISI | 250 |
| 300427 | Sst-IRES-Cre/wt;Ai148/wt | | 582867145 | VISI | 275 |
| | | | 583787531 | VISI | 375 |
| 300647 | Sst-IRES-Cre/wt;Ai148/wt | | 584778281 | VISI | 275 |
| 300657 | Vip-IRES-Cre/wt;Ai148/wt | | 583279801 | VISp | 175 |
| | | | 584829664 | VISp | 275 |
| 300663 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 580051757 | VISrl | 375 |
| 300664 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 584475415 | VISal | 375 |
| 301048 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 583136565 | VISI | 175 |
| | | | 584155531 | VISI | 275 |
| 301124 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 584944063 | VISal | 375 |
| | | | 591430488 | VISrl | 375 |
| 301125 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 588191924 | VISrl | 375 |
| | | | 588503721 | VISp | 375 |
| 304756 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 586351979 | VISp | 275 |
| 305467 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 590168381 | VISp | 275 |
| | | | 591460068 | VISal | 275 |
| 305469 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 586452279 | VISpm | 275 |
| | | | 588196040 | VISrl | 275 |
| 306500 | Sst-IRES-Cre/wt;Ai148/wt | | 660492886 | VISal | 275 |
| | | | 660492024 | VISrl | 375 |
| 306503 | Sst-IRES-Cre/wt;Ai148/wt | | 589253442 | VISpm | 275 |
| 306506 | Sst-IRES-Cre/wt;Ai148/wt | | 593337825 | VISI | 275 |
| 307419 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 591548031 | VISrl | 175 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|----------------|-------------------------|-------|------------|
| 308148 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 591392164 | VISrl | 175 |
| | | | 592349242 | VISrl | 275 |
| | | | 593902385 | VISam | 275 |
| 309152 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 593270600 | VISrl | 275 |
| | | | 595906107 | VISp | 275 |
| | | | 595263152 | VISp | 375 |
| 309689 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 592655325 | VISp | 350 |
| | | | 593506466 | VISal | 350 |
| | | | 595337948 | VISI | 350 |
| 309841 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 595273801 | VISam | 375 |
| 311728 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 593508592 | VISrl | 175 |
| | | | 595806298 | VISp | 375 |
| 312763 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 601790879 | VISI | 375 |
| 312765 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 595718340 | VISrl | 375 |
| 314300 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 593438035 | VISrl | 275 |
| 315118 | Sst-IRES-Cre/wt;Ai148/wt | | 595620996 | VISp | 275 |
| | | | 596557967 | VISpm | 275 |
| | | | 598584901 | VISpm | 375 |
| 315122 | Sst-IRES-Cre/wt;Ai148/wt | | 601259497 | VISp | 275 |
| | | | 601547953 | VISI | 375 |
| 315123 | Sst-IRES-Cre/wt;Ai148/wt | | 597028936 | VISI | 375 |
| 315297 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 598564171 | VISp | 375 |
| 315298 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 599112785 | VISpm | 375 |
| | | | 601498409 | VISam | 375 |
| 315559 | Sst-IRES-Cre/wt;Ai148/wt | | 598635819 | VISp | 275 |
| 315562 | Sst-IRES-Cre/wt;Ai148/wt | | 599920955 | VISpm | 300 |
| | | | 601841435 | VISI | 375 |
| 316777 | Sst-IRES-Cre/wt;Ai148/wt | | 601273919 | VISpm | 275 |
| | | | 601805377 | VISI | 375 |
| 317097 | Vip-IRES-Cre/wt;Ai148/wt | | 603452289 | VISI | 275 |
| 317098 | Vip-IRES-Cre/wt;Ai148/wt | | 601871316 | VISI | 175 |
| | | | 603316204 | VISI | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| 317644 | Vip-IRES-Cre/wt;Ai148/wt | | 601812178 | VISI | 175 |
| | | | 601374504 | VISpm | 275 |
| | | | 602589529 | VISI | 275 |
| 321822 | Sst-IRES-Cre/wt;Ai148/wt | | 602397921 | VISpm | 275 |
| | | | 603452149 | VISpm | 375 |
| 323528 | Sst-IRES-Cre/wt;Ai148/wt | | 603425657 | VISpm | 275 |
| | | | 603763385 | VISpm | 325 |
| 323538 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 603519606 | VISpm | 275 |
| | | | 604889966 | VISam | 275 |
| 323753 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 602616431 | VISp | 350 |
| | | | 603502696 | VISrl | 350 |
| 323982 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 603576130 | VISp | 550 |
| | | | 604529228 | VISpm | 550 |
| | | | 605883131 | VISI | 550 |
| 323984 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 603425700 | VISp | 550 |
| 324178 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 604576635 | VISal | 175 |
| 324180 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 610222464 | VISI | 375 |
| 325005 | Fezf2-CreER/wt;Ai148/wt | | 609198028 | VISI | 375 |
| 325006 | Fezf2-CreER/wt;Ai148/wt | | 606872639 | VISI | 375 |
| 325932 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 612536909 | VISrl | 175 |
| | | | 604328040 | VISrl | 375 |
| 326489 | Vip-IRES-Cre/wt;Ai148/wt | | 604866830 | VISp | 175 |
| | | | 606802465 | VISI | 175 |
| | | | 607426688 | VISpm | 175 |
| 327595 | Sst-IRES-Cre/wt;Ai148/wt | | 606960910 | VISI | 275 |
| | | | 606130900 | VISp | 375 |
| | | | 612549083 | VISI | 375 |
| 327599 | Sst-IRES-Cre/wt;Ai148/wt | | 617047314 | VISI | 375 |
| 328096 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 609479771 | VISam | 275 |
| 332395 | Sst-IRES-Cre/wt;Ai148/wt | | 612044633 | VISp | 265 |
| 332396 | Sst-IRES-Cre/wt;Ai148/wt | | 660491622 | VISrl | 275 |
| | | | 614418789 | VISp | 375 |
| 333422 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 614561352 | VISrl | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| 334309 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 612555401 | VISam | 175 |
| 335039 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 616779891 | VISam | 375 |
| | | | 637115672 | VISp | 375 |
| 335660 | Fezf2-CreER/wt;Ai148/wt | | 616886391 | VISp | 400 |
| 336243 | Vip-IRES-Cre/wt;Ai148/wt | | 612543997 | VISp | 175 |
| | | | 614571624 | VISl | 175 |
| | | | 617395453 | VISp | 275 |
| 336245 | Vip-IRES-Cre/wt;Ai148/wt | | 627823202 | VISpm | 275 |
| 336246 | Vip-IRES-Cre/wt;Ai148/wt | | 617388115 | VISpm | 175 |
| | | | 614556104 | VISl | 275 |
| | | | 626027942 | VISpm | 275 |
| 336824 | Tlx3-Cre_PL56/wt;Ai148/wt | | 617381603 | VISp | 375 |
| | | | 623587004 | VISl | 375 |
| 336898 | Vip-IRES-Cre/wt;Ai148/wt | | 627823633 | VISl | 175 |
| 337438 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 637113170 | VISal | 350 |
| | | | 638262555 | VISam | 350 |
| 337458 | Tlx3-Cre_PL56/wt;Ai148/wt | | 627823571 | VISp | 375 |
| 338502 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 640198007 | VISrl | 275 |
| 338505 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 643061996 | VISrl | 275 |
| 339312 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 642651896 | VISp | 275 |
| 339323 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 638056632 | VISal | 275 |
| | | | 698102441 | VISal | 276 |
| 339814 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 627823692 | VISp | 550 |
| | | | 637126539 | VISpm | 550 |
| 339839 | Fezf2-CreER/wt;Ai148/wt | | 637998953 | VISp | 400 |
| | | | 639929073 | VISl | 400 |
| 340377 | Sst-IRES-Cre/wt;Ai148/wt | | 639117194 | VISpm | 375 |
| 340378 | Sst-IRES-Cre/wt;Ai148/wt | | 640210564 | VISpm | 375 |
| 340427 | Tlx3-Cre_PL56/wt;Ai148/wt | | 637669268 | VISp | 375 |
| 340430 | Tlx3-Cre_PL56/wt;Ai148/wt | | 637671552 | VISp | 375 |
| 340467 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 627823721 | VISam | 175 |
| | | | 638753614 | VISpm | 175 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| | | | 639253041 | VISal | 275 |
| 340849 | Sst-IRES-Cre/wt;Ai148/wt | | 638870774 | VISpm | 275 |
| 340854 | Sst-IRES-Cre/wt;Ai148/wt | | 639251930 | VISpm | 375 |
| 344122 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 642278280 | VISam | 375 |
| | | | 643590699 | VISI | 375 |
| 344179 | Fezf2-CreER/wt;Ai148/wt | | 643592301 | VISp | 375 |
| 345270 | Tlx3-Cre_PL56/wt;Ai148/wt | | 643667453 | VISI | 375 |
| 347748 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 644947714 | VISpm | 175 |
| | | | 644013840 | VISI | 275 |
| | | | 646016202 | VISI | 375 |
| 347751 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 644061873 | VISI | 175 |
| | | | 647155120 | VISp | 275 |
| 348105 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 644909309 | VISp | 550 |
| | | | 645690244 | VISpm | 550 |
| | | | 646686776 | VISI | 550 |
| 348262 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 647595663 | VISI | 175 |
| | | | 645413757 | VISp | 275 |
| 350249 | Vip-IRES-Cre/wt;Ai148/wt | | 646959440 | VISpm | 175 |
| | | | 650389905 | VISpm | 275 |
| | | | 652092674 | VISI | 275 |
| 350509 | Vip-IRES-Cre/wt;Ai148/wt | | 652092000 | VISpm | 175 |
| | | | 650390040 | VISI | 275 |
| 351314 | Fezf2-CreER/wt;Ai148/wt | | 650510286 | VISI | 375 |
| 351315 | Fezf2-CreER/wt;Ai148/wt | | 651773425 | VISI | 375 |
| 351413 | Vip-IRES-Cre/wt;Ai148/wt | | 647598517 | VISpm | 175 |
| | | | 650079242 | VISp | 175 |
| | | | 649324896 | VISpm | 275 |
| 351663 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 646959386 | VISam | 375 |
| 352161 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/wt | | 649401934 | VISp | 375 |
| 352471 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 653123584 | VISI | 275 |
| 352889 | Tlx3-Cre_PL56/wt;Ai148/wt | | 648377366 | VISp | 375 |
| 354074 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 652094915 | VISam | 275 |
| 354087 | Vip-IRES-Cre/wt;Ai148/wt | | 657390169 | VISp | 175 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| | | | 657009579 | VISI | 275 |
| | | | 657776354 | VISpm | 275 |
| 354498 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 653125128 | VISp | 175 |
| 354499 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 650389951 | VISpm | 175 |
| 354819 | Vip-IRES-Cre/wt;Ai148/wt | | 652091262 | VISp | 175 |
| | | | 652842493 | VISp | 275 |
| 355467 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 650885966 | VISI | 175 |
| | | | 652736297 | VISI | 275 |
| 355468 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 650389885 | VISp | 175 |
| | | | 651366508 | VISI | 175 |
| 355470 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 652842570 | VISp | 175 |
| | | | 653122665 | VISp | 275 |
| 355474 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 653126875 | VISpm | 175 |
| | | | 652096181 | VISpm | 375 |
| | | | 653932503 | VISp | 375 |
| 355536 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 653551963 | VISI | 175 |
| 355537 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 656939125 | VISp | 275 |
| | | | 657391035 | VISpm | 275 |
| 355670 | Vip-IRES-Cre/wt;Ai148/wt | | 657775945 | VISp | 175 |
| | | | 657389970 | VISp | 275 |
| 356790 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 657082052 | VISp | 375 |
| | | | 657785848 | VISpm | 375 |
| 356796 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 659746623 | VISp | 275 |
| 356797 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 657014785 | VISpm | 275 |
| | | | 658854759 | VISI | 275 |
| 357093 | Tlx3-Cre_PL56/wt;Ai148/wt | | 657016265 | VISp | 375 |
| | | | 657391623 | VISI | 375 |
| 357433 | Vip-IRES-Cre/wt;Ai148/wt | | 657078117 | VISp | 175 |
| | | | 657224239 | VISI | 175 |
| | | | 659752540 | VISI | 250 |
| 360565 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 657470854 | VISpm | 175 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| | | | 658534530 | VISpm | 275 |
| | | | 659767480 | VISp | 275 |
| 360566 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 658854535 | VISpm | 175 |
| | | | 662351162 | VISrl | 175 |
| | | | 660510591 | VISrl | 275 |
| 360897 | Vip-IRES-Cre/wt;Ai148/wt | | 658518484 | VISp | 175 |
| | | | 657650108 | VISp | 275 |
| 360902 | Vip-IRES-Cre/wt;Ai148/wt | | 657472844 | VISl | 175 |
| | | | 658536326 | VISp | 275 |
| 360906 | Vip-IRES-Cre/wt;Ai148/wt | | 658020689 | VISpm | 175 |
| | | | 659491615 | VISp | 275 |
| 361002 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 658816711 | VISp | 350 |
| | | | 660064794 | VISrl | 350 |
| 361003 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 657804822 | VISrl | 350 |
| 361635 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 661744802 | VISp | 375 |
| | | | 662219850 | VISl | 375 |
| | | | 665413463 | VISpm | 375 |
| 361636 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 662358769 | VISl | 175 |
| | | | 658536109 | VISp | 275 |
| 361807 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 660065749 | VISp | 375 |
| 362287 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 665722299 | VISp | 550 |
| 362734 | Vip-IRES-Cre/wt;Ai148/wt | | 662361094 | VISp | 275 |
| 365250 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 666589599 | VISp | 175 |
| 365251 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 661437138 | VISp | 175 |
| | | | 662974313 | VISp | 375 |
| 365253 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 663488406 | VISl | 375 |
| 365255 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 661732156 | VISp | 175 |
| | | | 662172425 | VISpm | 175 |
| 366424 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 670721587 | VISpm | 375 |
| 369311 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 672207945 | VISl | 275 |
| 369495 | Pvalb-IRES-Cre/wt;Ai162/wt | | 669859917 | VISp | 225 |
| | | | 671618885 | VISp | 275 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| | | | 673477065 | VISI | 275 |
| 369496 | Pvalb-IRES-Cre/wt;Ai162/wt | | 667692761 | VISp | 175 |
| | | | 670721865 | VISp | 275 |
| | | | 673475018 | VISI | 275 |
| | | | 670396939 | VISp | 195 |
| 369497 | Pvalb-IRES-Cre/wt;Ai162/wt | | 673914979 | VISp | 275 |
| | | | 676024664 | VISI | 275 |
| | | | 667772494 | VISp | 175 |
| 369498 | Pvalb-IRES-Cre/wt;Ai162/wt | | 672223113 | VISp | 275 |
| | | | 669237513 | VISI | 625 |
| 370767 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 666271537 | VISI | 550 |
| 370771 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 669859473 | VISpm | 570 |
| | | | 665726616 | VISI | 570 |
| 370773 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 669239850 | VISpm | 625 |
| | | | 670395723 | VISI | 625 |
| | | | 688678764 | VISp | 205 |
| 371307 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai94/wt | | 679700455 | VISpm | 275 |
| 372079 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 673144414 | VISpm | 375 |
| | | | 676503916 | VISI | 375 |
| | | | 669876048 | VISp | 275 |
| 373760 | Pvalb-IRES-Cre/wt;Ai162/wt | | 671164925 | VISI | 275 |
| | | | 674679297 | VISp | 200 |
| 373762 | Pvalb-IRES-Cre/wt;Ai162/wt | | 676503586 | VISp | 275 |
| | | | 680150731 | VISp | 375 |
| | | | 679702882 | VISp | 275 |
| 373869 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 674802081 | VISp | 390 |
| 374201 | Fezf2-CreER/wt;Ai148/wt | | 680156909 | VISp | 175 |
| 377111 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai94/wt | | 682734790 | VISp | 205 |
| | | | 686912320 | VISp | 550 |
| 377129 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 686441797 | VISpm | 275 |
| 377151 | Rorb-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 686031104 | VISI | 275 |
| 377321 | Sst-IRES-Cre/wt;Ai148/wt | | 686442554 | VISI | 250 |
| 377629 | Sst-IRES-Cre/wt;Ai148/wt | | 685063218 | VISpm | 350 |

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|--|----------------|-------------------------|-------|------------|
| 378302 | Nr5a1-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 682049097 | VISI | 350 |
| | | | 685816004 | VISal | 350 |
| 379345 | Vip-IRES-Cre/wt;Ai148/wt | | 686449090 | VISI | 175 |
| | | | 689402243 | VISpm | 275 |
| 379348 | Vip-IRES-Cre/wt;Ai148/wt | | 685816034 | VISpm | 175 |
| | | | 689385402 | VISpm | 275 |
| 379518 | Pvalb-IRES-Cre/wt;Ai162/wt | | 686449283 | VISp | 185 |
| 379899 | Vip-IRES-Cre/wt;Ai148/wt | | 696156781 | VISpm | 275 |
| 382138 | Ntsr1-Cre_GN220/wt;Ai148/wt | | 696503438 | VISI | 550 |
| 382421 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 701048110 | VISam | 175 |
| | | | 701412138 | VISp | 175 |
| | | | 699155263 | VISI | 275 |
| | | | 702934962 | VISp | 275 |
| 382423 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 698260530 | VISrl | 175 |
| | | | 702208910 | VISrl | 275 |
| | | | 708949511 | VISam | 275 |
| 384940 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 707923643 | VISI | 175 |
| | | | 702956471 | VISI | 275 |
| 385254 | Slc17a7-IRES2-Cre/wt;Camk2a-tTA/wt;Ai93/wt | | 701046698 | VISpm | 275 |
| | | | 703308069 | VISpm | 375 |
| 388801 | Pvalb-IRES-Cre/wt;Ai162/wt | | 714778444 | VISI | 275 |
| | | | 710327593 | VISp | 375 |
| 388804 | Pvalb-IRES-Cre/wt;Ai162/wt | | 712178481 | VISp | 275 |
| | | | 710504561 | VISp | 375 |
| 389015 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 710469197 | VISam | 275 |
| 389531 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 710502979 | VISrl | 275 |
| 390323 | Cux2-CreERT2/wt;Camk2a-tTA/wt;Ai93/wt | | 712178509 | VISp | 275 |
| | | | 716655272 | VISpm | 275 |

Non-Cre-Specific Phenotype refers to the observation of widespread, non-Cre specific, GCaMP6 expression that occurs due to germline recombination that results in STOP deletion from the LoxP-STOP-LoxP cassette. Data from the animals listed in Table 2 below had been published in earlier releases, before additional analysis revealed the deletion and resulting widespread (rather than Cre-restricted) expression of the reporter gene (Steinmetz 2017). For this reason, these data are now classified as “failed.” Operational measures have been implemented to prevent mice with the deletion from being used for experiments, and no further data from these mice will be produced. The failed data will not be returned in search results in the <http://observatory.brain-map.org> web application. Note that refreshed analysis or images for the most recent data release are not available for these failed data sets. For archive purposes, the original experiment data can still be viewed via a URL referencing the experiment ID. Here is an example for experiment ID 526787625:

<http://observatory.brain-map.org/visualcoding/search/experiment?id=526787625>

SDK users can choose to include this data in their analysis by including `experiment_containers` where the `'failed'` attribute = TRUE. The affected animal records have been assigned the label "non Cre-specific phenotype".

Table 2. Previously released and subsequently failed specimens.

| Mouse ID | Genotype | Specimen Notes | Experiment Container ID | Area | Depth (µm) |
|----------|---|---|-------------------------|-------|------------|
| 232269 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93-STOPdel | Epileptiform Events, Non Cre-specific Phenotype | 511510632 | VISal | 375 |
| | | | 511510705 | VISI | 375 |
| | | | 511510635 | VISp | 375 |
| | | | 511510653 | VISpm | 375 |
| 232270 | Rbp4-Cre_KL100/wt;Camk2a-tTA/wt;Ai93/Ai93-STOPdel | Epileptiform Events, Non Cre-specific Phenotype | 511510770 | VISal | 375 |
| | | | 511510742 | VISI | 375 |
| | | | 511510974 | VISp | 375 |
| 243303 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93-STOPdel | Epileptiform Events, Non Cre-specific Phenotype | 526787625 | VISp | 175 |
| | | | 540650206 | VISp | 250 |
| | | | 527683915 | VISp | 275 |
| | | | 528544341 | VISp | 375 |
| 252105 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93-STOPdel | Epileptiform Events, Non Cre-specific Phenotype | 528694719 | VISp | 175 |
| | | | 529676887 | VISp | 275 |
| | | | 530688634 | VISp | 375 |
| 252106 | Emx1-IRES-Cre/wt;Camk2a-tTA/wt;Ai93/Ai93-STOPdel | Epileptiform Events, Non Cre-specific Phenotype | 530078243 | VISp | 175 |
| | | | 530738229 | VISp | 275 |
| | | | 528521086 | VISp | 375 |

REFERENCES

Steinmetz NA, Buetfering C, Lecoq J, Lee CR, Peters AJ, et al. 2017. Aberrant cortical activity in multiple GCaMP6-expressing transgenic mouse lines. *bioRxiv* 138511; doi: <https://doi.org/10.1101/138511>