

REAGENT or RESOURCE	SOURCE	IDENTIFIER
<b>Antibodies</b>		
Anti-HA, rabbit	Cell Signaling Technology	Cat#3724
Anti-2A, rabbit	Merck	Cat#ABS31
Anti-rabbit, AF647	Invitrogen	Cat#A31573
Anti-rabbit, HRP	Invitrogen	Cat#G-21234
Anti-HRP, Cy5	Akoya Biosciences	Cat#NEL745001KT
Anti-RFP, rat	ChromoTek	Cat#5f8
Anti-rat, AF555	Abcam	Cat#ab150166
Anti-rat, AF594	Invitrogen	Cat#A-21209
Anti-GFP, chicken	Abcam	Cat#ab13970
Anti-chicken, AF488	Invitrogen	Cat#A11039
<b>Bacterial and virus strains</b>		
AAV1.CamKII0.4.Cre.SV40 (AAV-CKII-Cre)	UPenn Vector Core	Cat#AV-1-PV2396
AAV-hS-FLEX-TVA-HA-N2cG	This paper / Viral Vector Core at Kavli Institute for Systems Neuroscience	N/A
EnvA-ΔG-CVS-N2c RV-tdTomato (RABV-tdTomato)	As above	N/A
EnvA-ΔG-CVS-N2c RV-ChR2-YFP (RABV-ChR2-YFP)	As above	N/A
EnvA-ΔG-CVS-N2c RV-GCaMP6f (RABV-GCaMP6f)	As above	N/A
AAV1.CAG.Flex.tdTomato.WPRE.bGH	UPenn Vector Core	Cat#AV-1-ALL864
AAV1.Syn.GCaMP6m.WPRE.SV40	UPenn Vector Core	Cat#AV-1-PV2823
<b>Deposited data</b>		
<i>In vivo</i> electrophysiology data	This paper	Will be added upon publication
<b>Experimental models: cell lines</b>		
Neuro2A-CVS-N2c(G)	Jessell lab (Reardon <i>et al.</i> , 2016)	N/A
Neuro2A-EnvA	Jessell lab (Reardon <i>et al.</i> , 2016)	N/A
Neuro2A	American Type Culture Collection (ATCC)	CCL-131
HEK293-TVA800	Callaway lab (Osakada and Callaway, 2013)	N/A
<b>Experimental models: Organisms/strains</b>		
Mice: C57BL/6JBomTac	Taconic	Cat#B6JBOM; RRID: IMSR_TAC:b6jbom
<b>Recombinant DNA</b>		
pAAV-hSyn-FLEX-splitTVA-2A-2xHA-2A-CVS-N2cG	This paper / Viral Vector Core at Kavli Institute for Systems Neuroscience	N/A
<b>Software and algorithms</b>		
KlustaKwik	Kadir, Goodman and Harris, 2014; Rossant <i>et al.</i> , 2016	<a href="https://github.com/klusta-team/klustakwik">https://github.com/klusta-team/klustakwik</a>
Python	Python Software Foundation	<a href="https://www.python.org/">https://www.python.org/</a>

Datajoint	Yatsenko <i>et al.</i> , 2015	<a href="https://github.com/datajoint/datajoint-python">https://github.com/datajoint/datajoint-python</a>
Suite2p python	Pachitariu <i>et al.</i> , 2017	<a href="https://github.com/MouseLand/suite2p">https://github.com/MouseLand/suite2p</a>
Fiji (ImageJ)	Schindelin <i>et al.</i> , 2012	<a href="http://fiji.sc">http://fiji.sc</a> ; RRID: SCR_002285