

Supplementary Table 3. List of R-mAbs successfully transferred to IgG subclass-switched expression plasmids.

Transferred to IgG2b Expression Plasmid				Transferred to IgG1 Expression Plasmid	
R-mAb	Target	R-mAb	Target	R-mAb	Target
A12/18	Pan-Neurofascin (extracellular)	N59/20	GluN2B/NR2B glutamate receptor	A12/18	Pan-Neurofascin (extracellular)
K7/45	Kv1.5 K+ channel	N59/36	GluN2B/NR2B glutamate receptor	K20/78	Kv1.1 K+ channel
K13/31	Kv1.4 K+ channel	N68/6	Nav1.7 Na+ channel	K28/43	PSD-95
K14/16	Kv1.2 K+ channel	N69/46	Shank3	K57/1	Kv4.2 K+ channel (external)
K17/70	Kvbeta2 K+ channel	N70/28	HCN1	K65/35	CASPR/Neurexin IV
K20/78	Kv1.1 K+ channel	N76/8	Ataxin-1, 11NQ	K75/41	Kv4.3 K+ channel
K28/43	PSD-95	N86/38	GFP	L108/92	VIP
K39/25	Kv2.1 K+ channel (external)	N86/8	GFP	L109/39	Calbindin
K57/1	Kv4.2 K+ channel (external)	N97A/31	Neuroigin-1	L113/130	Homer1L/S
K64/15	SAP97	N106/36	Ankyrin-G	L113/27	Homer1L
K65/35	CASPR/Neurexin IV	N110/29	Neuroigin-3	L118/80	VGAT
K66/38	KChIP3 K+ channel	N112B/14	Kir2.1 K+ channel	L122/6	Calretinin
K74/71	Nav1.1 Na+ channel	N114/10	HCN4	L122/68	Calretinin
K75/41	Kv4.3 K+ channel	N133/21	RGS14	L127/12	GAD65 + GAD67
K89/34	Kv2.1 K+ channel	N133/35	RGS14	L21/32	GluA2/GluR2 glutamate receptor
L6/60	Slo1/BKAlpha maxi-K+ channel	N134/12	Nav1.8 Na+ channel	L6/60	Slo1/BKAlpha maxi-K+ channel
L21/32	GluA2/GluR2 glutamate receptor	N149/25	Olig1	L86/33	AMIGO-1
L28/4	Kv4.2 K+ channel	N151/3	GABA(A)R, Delta	N1/12	KCC2
L57/46	Cav1.2/1.3 Ca2+ channel	N168/6	Navbeta4 Na+ channel	N86/8	Nav1.7 Na+ channel
L60/4	Copper ATPase 1 (Menke's disease protein)	N170A/1	Neurexin-1-Beta	N106/36	Ankyrin-G
L86/33	AMIGO-1	N178A/9	Cav3.1 Ca2+ channel	N112B/14	Kir2.1 K+ channel
L86/36	AMIGO-1	N182/17	QKI-6	N133/21	RGS14
L106/83	Gephyrin	N196/16	PARIS/ZNF746	N134/12	Nav1.8 Na+ channel
L107/39	Neuroigin-2	N201/35	Iduna/RNF146	N149/25	Olig1
L108/92	VIP	N206A/8	GFAP	N170A/1	Neurexin-1-Beta
L109/39	Calbindin	N212/17	TRIP8b (constant)	N206A/8	GFAP
L113/27	Homer1L	N241A/34	LRRK2/Dardarin, C-terminus	N241A/34	LRRK2/Dardarin, C-terminus
L113/130	Homer1L/S	N244/5	SynCAM4	N263/31	Cav1.2 Ca2+ channel
L114/3	Parvalbumin	N263/31	Cav1.2 Ca2+ channel	N28/9	VGluT1
L115/13	NPY/Neuropeptide Y	N289/16	SUR1	N29/29	VGluT2
L118/80	VGAT	N295B/66	Arl13b	N295B/66	Arl13b
L122/6	Calretinin	N308/48	GluN1/NR1 glutamate receptor	N308/48	GluN1/NR1 glutamate receptor
L122/68	Calretinin	N327/95	GluN2A/NR2A glutamate receptor	N327/95	GluN2A/NR2A glutamate receptor
L127/8	GAD67	N355/1	GluA1/GluR1 glutamate receptor	N355/1	GluA1/GluR1 glutamate receptor
L127/12	GAD65/67	N410/17	Kv3.2 K+ channel	N410/17	Kv3.2 K+ channel
N1/12	KCC2	N425/45	VACHT	N425/45	VACHT
N3/26	KCNT1/Slo2.2/Slack K+ channel			N52A/42	Mortalin/GRP75
N6/38	VACHT			N59/20	GluN2B/NR2B glutamate receptor
N7/18	Cavbeta1 Ca2+ channel			N59/36	GluN2B/NR2B glutamate receptor
N11/33	KCNT2/Slo2.1/Slick K+ channel			N6/38	VACHT
N28/9	VGlut1			N68/6	Nav1.7 Na+ channel
N29/29	VGluT2			N70/28	HCN1
N52A/42	Mortalin/GRP75			N86/38	GFP

Supplementary Table 3. List of R-mAbs and their targets that were successfully transferred from the IgG2a mammalian expression plasmid into either an IgG2b and/or IgG1 mammalian expression plasmid using restriction digest/ligation-based cloning.