а	Striatal extracts $\alpha$ VGLUT1	b	Striatal extracts $\alpha$ Homer1
	zQ1/5 /mo WI /mo		zQ175 7mo WT 7mo
250 kDa —		250 kDa — 150 kDa —	
150 kDa <b>—</b>		100 kDa 🗕	
100 kDa <b>—</b>		75 kDa 🗕	
75 kDa 🗕			
50 kDa		50 kDa <b>—</b>	
50 KDa -		37 kDa —	
37 kDa <b>—</b>		20 kDa	
20 kDa <b>—</b>		20 KDa—	







Source data figure 11 (a) Full length lanes of the chemiluminescent anti VGLUT1 (~55kDa) signal displayed in Extended data figure 1c; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (b) Full length lanes of the chemiluminescent anti Homer1 (~39kDa) signal displayed in Extended data figure 1c; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (c) Full length lanes of the chemiluminescent anti VGLUT2 (~56kDa) signal displayed in Extended data figure 1c; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (d) Full length lanes of the chemiluminescent anti  $\beta$ -actin (~42kDa) signal displayed in Extended data figure 1c; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (e) Full length lanes of the chemiluminescent anti VGLUT1 (~55kDa) signal displayed in Extended data figure 1g; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (f) Full length lanes of the chemiluminescent anti VGLUT2 (~56kDa) signal displayed in Extended data figure 1g; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. (g) Full length lanes of the chemiluminescent anti  $\beta$ -actin (~42kDa) signal displayed in Extended data figure 1g; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left.









**Source data figure 12 (a)** Full length lanes of the chemiluminescent anti VGLUT1 (~55kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. **(b)** Full length lanes of the chemiluminescent anti VGLUT2 (~56kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. **(c)** Full length lanes of the chemiluminescent anti VGLUT2 (~56kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. **(c)** Full length lanes of the chemiluminescent anti PSD-95 (~95kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. **(d)** Full length lanes of the chemiluminescent anti β-actin (~42kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. **(d)** Full length lanes of the chemiluminescent anti β-actin (~42kDa) signal displayed in Extended data figure 1I; approximate molecular weights, estimated with Precision Plus Protein Kaleidoscope prestained protein standards (BIO-RAD), are shown to the left. Please note that for all blots additional lanes to the right of Preman.HD 2, which contained extracts from a different source and which were run to address questions for an alternate project, have been cropped for clarity. Abbreviations: Preman. = Premanifest. Ctrl = Control