

**Supplementary file 1C.** List of targets from each of the top five networks (axon guidance, long-term potentiation, synaptic contact, synaptogenesis, and vesicle exocytosis pathways) with predicted binding sites for miR-153. Genes from the vesicle exocytosis pathway that are co-regulated by miR-153 together with other fear-induced miRNAs are presented in Figure 1E.

<u><b>Axon Guidance</b></u>	<u><b>LTP</b></u>	<u><b>Synaptic Contact</b></u>	<u><b>Synaptogenesis</b></u>	<u><b>Vesicle Exocytosis</b></u>
Adam23	Src	Cask	Bsn	Bsn
Calm1	Calm1	Dlg2	Cask	Cltc
Cacna1c	Grb2	Efnb2	Dlg2	Itsn2
Dcc	Pik3r1	Fyn	Efnb2	Pclo
Efnb2	Prkar2b	Grik2	Grik2	Rph3al
Fyn	Plcb1	Grip2	Grik3	Slc1a2
Prkar2b	Ryr2	Nfasc	Scn8a	Snap25
Robo2	Ryr3	Snap25	Pclo	Snca
Ryr2		Wipf1		Syt1
				Syt4
				Trak2
				Vamp2