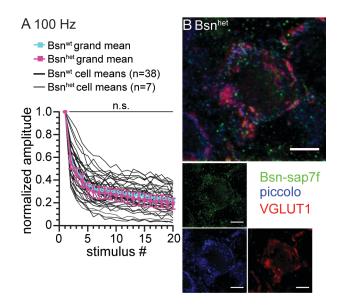
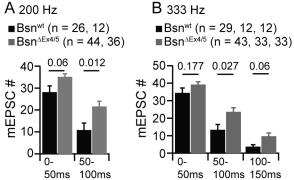
Figure S5: No evidence for dominant negative effects of the  $Bsn^{\Delta Ex4/5}$  fragment



**A)** Short-term depression does not differ between synapses from  $Bsn^{wt}$  (n = 38) and  $Bsn^{het}$  mice (n = 7), 100 Hz stimulation. **B)** Maximum projection of a confocal image stack a  $Bsn^{het}$  BC: Labeling of bassoon's sap7f (green) epitope shows punctate expression colocalizing with Piccolo (blue) at active zones.

Figure S6: Asynchronous release after high frequency stimulation of  $Bsn^{\Delta Ex4/5}$  synapses



Asynchronous release events after high-frequency stimulation at 200 Hz (A) and 333 Hz (B) are more numerous for  $Bsn^{\Delta Ex4/5}$  mutant synapses.