

**Table S1****Vertical Filaments and AMPAR Type Structures in PSD Areas Adjacent to the Central Cluster of NMDAR Type Structures**

Conditions	PSD area (nm x nm, Length by thickness)	Vertical filament number	AMPAR number	Vertical filaments Nearest neighbor distance (nm)
Control, (left zone, Fig.5C)	125x96	29	7	15±5 (n=41)
Control, (right zone, Fig.5C)	125x96	34	10	16±6 (n=45)
Control (left zone, (Chen et al, 2008))*	125x100	43	10	18±8 (n=87)
Control (right zone, (Chen et al, 2008))*	100x100	35	6	
Control (averaged)				16±4
PSD-95 knockdown (left zone, Fig.5F-G)	125x75	25	3	31±18 (n=38)
**PSD-95 knockdown (mid zone, Fig.5F-G)	85x75	22	4	26±13 (n=31)
PSD-95 knockdown (right zone, Fig.5F-G)	125x75	19	5	30±15 (n=36)
PSD-95 knockdown right zone, Fig.4C)	125x100	24	3	23±11 (n=85)
PSD-95 knockdown (left zone, Fig.4F)	125x100	19	8	30±15 (n=32)
PSD-95 knockdown (left zone, Fig.4F)	125x100	20	5	28±14 (n=31)
PSD-95 knockdown (averaged)				28±6

**\* Measured from the rendered structure of the PSD (Chen et al, 2008). \*\* Not included in the analysis in Table 1.**

Chen, X., Winters, C., Azzam, R., Li, X., Galbraith, J.A., Leapman, R.D., and Reese, T.S. (2008). Organization of the core structure of the postsynaptic density. *Proc Natl Acad Sci U S A* *105*, 4453-4458.