

### S3 Table

Regression line parameters.

	$\alpha_0$	$\Delta\alpha/\Delta w$ [ $\mu\text{m}^{-1}$ ]	r	d [nm]
wt	0.017	0.261	0.935	130
CadMO	0.013	0.114	0.988	227
FNMO	0.014	0.119	0.978	235
HasMO	0.009	0.102	0.972	172
Syn4MO	0.023	0.074	0.960	625

Regression lines delineating the lower boundaries of  $\alpha - w$  distributions were determined as described in the main text.  $\alpha_0$ , intersection of regression line with  $\alpha$  axis;  $\Delta\alpha/\Delta w$ , slope of regression line; r, regression coefficient; d, interdigitation distance  $d = 2\alpha_0/(\Delta\alpha/\Delta w)$ . The calculated d is comparable to the measured average lengths of the shortest LSM units (“stubs”) in normal contacts (156 nm), FN morphants (128 nm) and Has1 morphants (111 nm) shown in Fig 6F-H.