Supplemental Materials

Molecular Biology of the Cell

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Supplemental Table 1. Figure 6C Axon Outgrowth Statistics: n and p-values

Transfection Condition	Time Point	N-values (total number of neurons measured in 3 culture replicates)	P-values (difference from vector control at same time point)
Vector	DIV3-4	26	N/A
	DIV4-5	30	N/A
	DIV5-6	34	N/A
	DIV6-7	33	N/A
shLASP1a	DIV3-4	28	Not Significant (0.6824)
	DIV4-5	34	0.0025
	DIV5-6	33	0.0006
	DIV6-7	26	<0.0001
shLASP1b	DIV3-4	25	0.0340
	DIV4-5	32	0.0002
	DIV5-6	37	0.0103
	DIV6-7	36	0.0306

Supplemental Table 2. Figure 6D Axon Branch Formation Statistics: n and p-values

Transfection Condition	Time Point	N-values (total number of neurons measured in 3 culture replicates)	P-values (difference from vector control at same time point)
Vector	DIV3-4	26	N/A
	DIV4-5	30	N/A
	DIV5-6	34	N/A
	DIV6-7	33	N/A
shLASP1a	DIV3-4	28	Not Significant (0.9978)
	DIV4-5	34	0.0032
	DIV5-6	33	0.0004
	DIV6-7	26	0.0027
shLASP1b	DIV3-4	25	0.0316
	DIV4-5	32	0.0005
	DIV5-6	37	<0.0001
	DIV6-7	36	0.0001

Supplemental Table 3. Figure 7B Growth Cone Dynamics Statistics: n and p-values

Transfection Condition	N-values (total number of growth cones measured)	Growth Cone Speed P-values (difference from vector control)	Growth Cone Persistence P-value (difference from vector control)
Vector	36	N/A	N/A
shLASP1a	26	<0.0001	0.0188
shLASP1b	27	<0.0001	0.0027

Supplemental Table 4. Figure 7C Axon Branch Dynamics Statistics: n and p-values

Transfection Condition	N-values (total number of neurons measured)	Branch Formation P-values (difference from vector control)	Branch Elimination P-values (difference from vector control)	Branch Lifetime P-values (difference from vector control)
Vector	3	N/A	N/A	N/A
shLASP1a	3	0.0022	0.0184	0.6311
shLASP1b	3	0.0017	0.0061	0.2165