

SUPPLEMENTAL TABLES

	starch in D1	no starch in D1	no starch in D1+D2	starch in QC	starch in P1	n
Col-0	2.20	65.20	32.60	0.00	0.00	89
<i>cle40-2</i>	1.20	40.70	58.10	0.00	0.00	86
Col-0 + CLE40p	53.97	36.51	3.17	6.35	0.00	63
Col-0 + CLE40p^{6Thr}	31.82	53.03	10.61	4.55	0.00	66
Col-0 + CLV3p	66.67	19.44	9.72	4.17	0.00	72
Col-0 + CLV3p^{6Thr}	62.90	20.97	6.45	9.68	0.00	62

Table S1. Quantification of distal root phenotypes after antagonistic peptide treatments.

Frequency in percent of *A. thaliana* roots carrying starch granules in the designated domains with or without peptide treatment. Seedlings were assayed by mPSPI staining 5 days after germination on medium \pm 1 μ M of peptide. P1 = proximal layer position one; QC = quiescent center position; D1 = distal layer position one; D2 = distal layer position two; n = number of main root tips analysed.

Name	Sequence	6A	6T
CLV3p	RTVPSGPDPLHH	nd	++
IDAp	PIPPSAPGRKHN	++	++
CLE40p	RQVPTGSDPLHH	nd	++
CLE27p	RIVPSCPDPLHN	++	++
CLE26p	RKVPRGPDPIHN	++	+
CLE1/4p	RLSPGGPDPRHH	-	-
CLE7p	RFSPGGPDPQHH	-	-
CLE45p	RRVRRGSDPIHN	nd	(+)

Table S2. Summary of mutations and phenotypes. Mutations at position six in CLE or IDA peptides has little effect in the context P[S/T]mP (where m is a mutation to A or T), but produce a peptide with reduced activity in the context [P/R]RmP. nd, not determined.