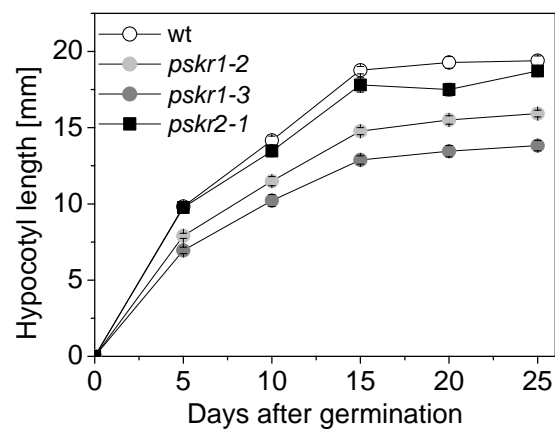


## Supporting Information S1

**Table S1. Cell lengths and cell numbers in hypocotyls of wt, *pskr1-2*, *pskr1-3*, and *pskr2-1*.** Hypocotyl cell lengths of 20 five-day-old etiolated seedlings each were analyzed from wt, *pskr1-2*, *pskr1-3* and *pskr2-1* at each cell position (data set from Figure 1C). ‘\*’ and ‘°’ indicate significantly different values (\* $P < 0.05$ , ° $P < 0.001$ , 2-sample  $t$ -test). Hypocotyl lengths ( $\pm$ SE) were calculated by adding average cell lengths from each cell position. Total cell numbers are not statistically different between genotypes ( $P < 0.05$ , Tukey test).

Cell position	Cell length [ $\mu$ m]			
	wt	<i>pskr1-2</i>	<i>pskr1-3</i>	<i>pskr2-1</i>
1	186.6	194.0	146.1	176.3
2	271.0	275.7	215.2	288.4
3	382.4	291.3*	263.6*	354.2
4	434.4	371.9	287.3*	410.3
5	497.4	470.2	322.7*	462.0
6	564.5	459.5*	363.2*	503.0
7	586.2	482.1*	370.2*	506.1
8	614.1	597.0	414.1°	580.3
9	680.8	640.3	478.4*	581.2
10	702.9	726.7	485.0*	697.5
11	847.7	721.8	530.1*	786.6
12	927.9	707.3*	538.2*	750.9
13	900.3	551.3*	524.4*	729.4*
14	770.8	512.7*	522.7*	744.9
15	613.5	266.9°	529.3	699.5
16	351.7	213.6	392.1	470.6
17	204.1	172.6	277.4	306.7
18	148.2	116.9	190.8	214.8
19	85.7	116.7	114.0	166.8
20	55.8	-	-	151.8
Hypocotyl length [mm]	9.8 $\pm$ 0.2	7.9 $\pm$ 0.2	6.9 $\pm$ 0.2	9.6 $\pm$ 0.1
Total cell number	19.6 $\pm$ 0.3	18.8 $\pm$ 0.3	19.0 $\pm$ 0.2	20.3 $\pm$ 0.3

**Figure S1. Time course of hypocotyl elongation of wt, *pskr1-2*, *pskr1-3*, and *pskr2-1* seedlings.** Hypocotyl lengths of 5-, 10-, 15-, 20- and 25-day-old etiolated seedlings were analyzed for wt, *pskr1-2*, *pskr1-3* and *pskr2-1*. Results are averages of hypocotyl lengths ( $\pm$  SE) of a minimum of 36 hypocotyls analyzed per genotype in two independent biological experiments. Error bars are smaller than the symbols used. Hypocotyl lengths of wt and *pskr2-1* are not significant different, whereas hypocotyl lengths of *pskr1-2* and *pskr1-3* seedlings are significant different to wt at each time point ( $P < 0.001$ , 2-sample *t*-test).



**Figure S2. *t*-test of hypocotyl cell lengths of the allelic lines *pskr1-2* and *pskr1-3*.**

Hypocotyl cell lengths of 5-day-old etiolated seedlings were compared for *pskr1-2* and *pskr1-3* at each cell position (data set from Figure 1C, Table S1). Asterisks indicate significantly different values ( $P < 0.05$ , 2-sample *t*-test).

