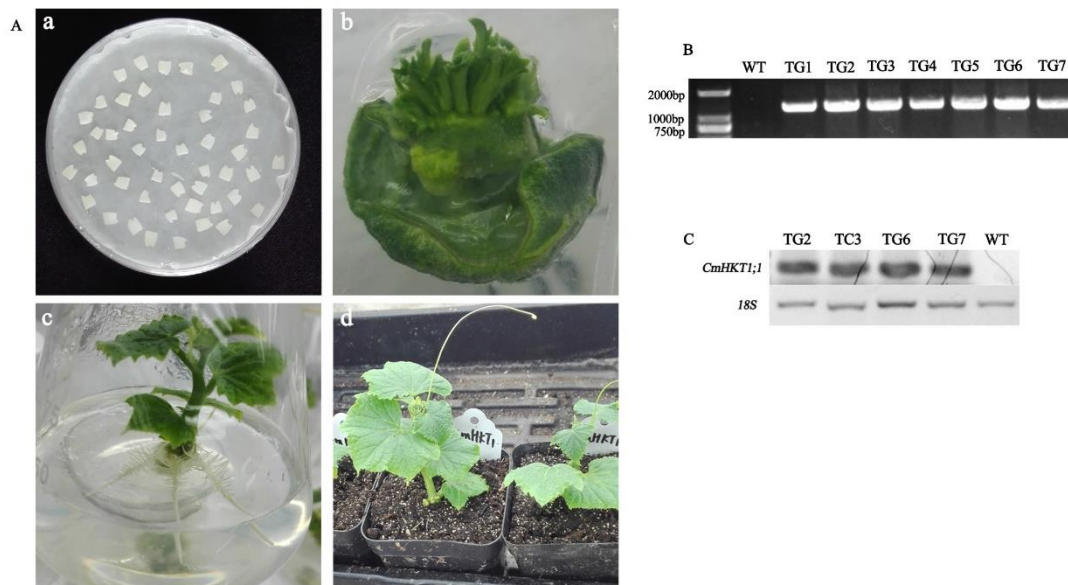


Supplementary Figure S1. Expression of *CmHKT1;2* and *CsHKT1;1* in response to NaCl. (A) Time-course expression analysis of *CmHKT1;2* response to NaCl (75 mM) treatment by qRT-PCR in pumpkin roots. The *Actin* gene was used as an internal control. Error bars represent SE (n = 3). (B) Time-course expression analysis of *CsHKT1;1* response to NaCl (75 mM) treatment by qRT-PCR in cucumber roots. The *Actin* gene was used as an internal control. Error bars represent SE (n = 3).



Supplementary Figure S2. Overexpression of *CmHKT1;1* in cucumber. (A) *Agrobacterium tumefaciens* mediated transformation in cucumber. **a**, Lower halves of cucumber cotyledons used for transformation; **b**, Explants on shoot induction medium (containing antibiotics and hormones); **c**, Shoots with kanamycin resistance were cut and cultured in MS rooting medium with antibiotics for development into whole plants; **d**, Transgenic plants were transferred to the pots with sterile substrate for naturalizing. (B) Identification of the positive transgenic plants by

PCR, with primers forward *CmHKT1;1* primer and reverse primer of OCS terminator (Oct).

(C) RT-PCR analysis of *CmHKT1;1* transcripts in transgenic cucumber.

Supplemental Table S1. Primers used in the paper.

Primers	Description	Sequence (5' - 3')
<i>CmHKT1;1-F</i>	CDS clone	ATGAAGAACTTACCACTCTATTTCCCT
<i>CmHKT1;1-R</i>	CDS clone	CTATGATAGTTTCCATGCTTTCCCAC
<i>CmHKT1;1-F</i>	Transgenic line PCR	TCTCCAACCTCCAACCTCCT
Oct-R	Transgenic line PCR	CGTCTCGCATATCTCATTAAAGC
<i>CmHKT1;1-F</i>	RT-PCR	TCTCCAACCTCCAACCTCCT
<i>CmHKT1;1-R</i>	RT-PCR	CCGACAATAGATGTGAATACC
<i>CmActin-F</i>	RT-PCR	CTCTGGTGATGGTGTTAGTC
<i>CmActin-R</i>	RT-PCR	TGTAAGTAGTCTCGTGGATTC
<i>CsHKT1;1-F</i>	qRT-PCR	TCTCATCATCACCACCCTCA
<i>CsHKT1;1-R</i>	qRT-PCR	CCGAATCGACATGGTTTTCT
<i>Cs18S-F</i>	RT-PCR	CGAGTCTGGTAATTGGAATGAGTA
<i>Cs18S-R</i>	RT-PCR	CTACGAGCTTTTTAACTGCAACAA
<i>CmHKT1;1-F</i>	qRT-PCR	TGTCTGTGGTCGAAATGGAA
<i>CmHKT1;1-R</i>	qRT-PCR	GTTCTGGTGGGAGAGTTGGA
<i>CmHKT1;2-F</i>	qRT-PCR	TTGTTTCCGTCGTGTTGAG
<i>CmHKT1;2-R</i>	qRT-PCR	AAACACTCCCAACCAACAGC
<i>CmActin-F</i>	qRT-PCR	CACTACACCGTTGGAAAGGAAA
<i>CmActin-R</i>	qRT-PCR	CAAAAGGAGGGAGCCGAGA
<i>CsHKT1;1-F</i>	qRT-PCR	TCTCATCATCACCACCCTCA
<i>CsHKT1;1-R</i>	qRT-PCR	CCGAATCGACATGGTTTTCT
<i>CsActin-F</i>	qRT-PCR	CCACGAACTACTTACAACCTCCATC
<i>CsActin-R</i>	qRT-PCR	GGGCTGTGATTTCTTGCTC
<i>CmHKT1;1-SP6</i>	<i>in situ</i> probe	GATTTAGGTGACACTATAGAATGCTTGGCTCACCTCTGCTATT
<i>CmHKT1;1-T7</i>	<i>in situ</i> probe	TGTAATACGACTCACTATAGGGATCACCGAGTTGTTCTCA