

Supplementary information

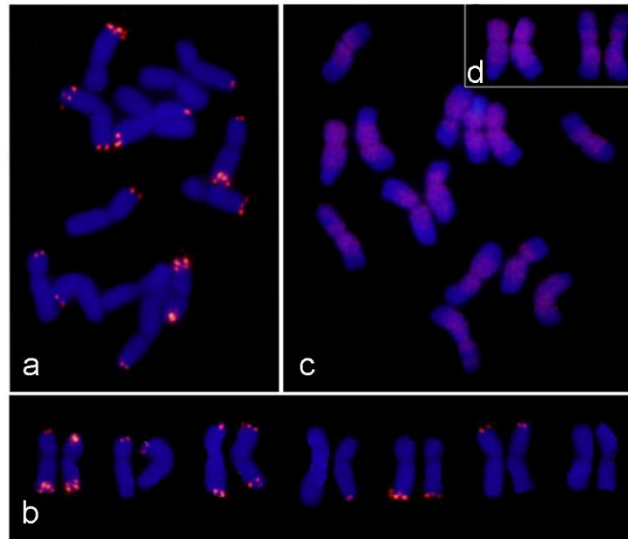
Identification of P genome chromosomes in *Agropyron cristatum* and wheat-*A. cristatum* derivative lines by FISH

Haiming Han, Weihua Liu, Jinpeng Zhang, Shenghui Zhou, Xinming Yang, Xiuquan Li, Lihui Li*

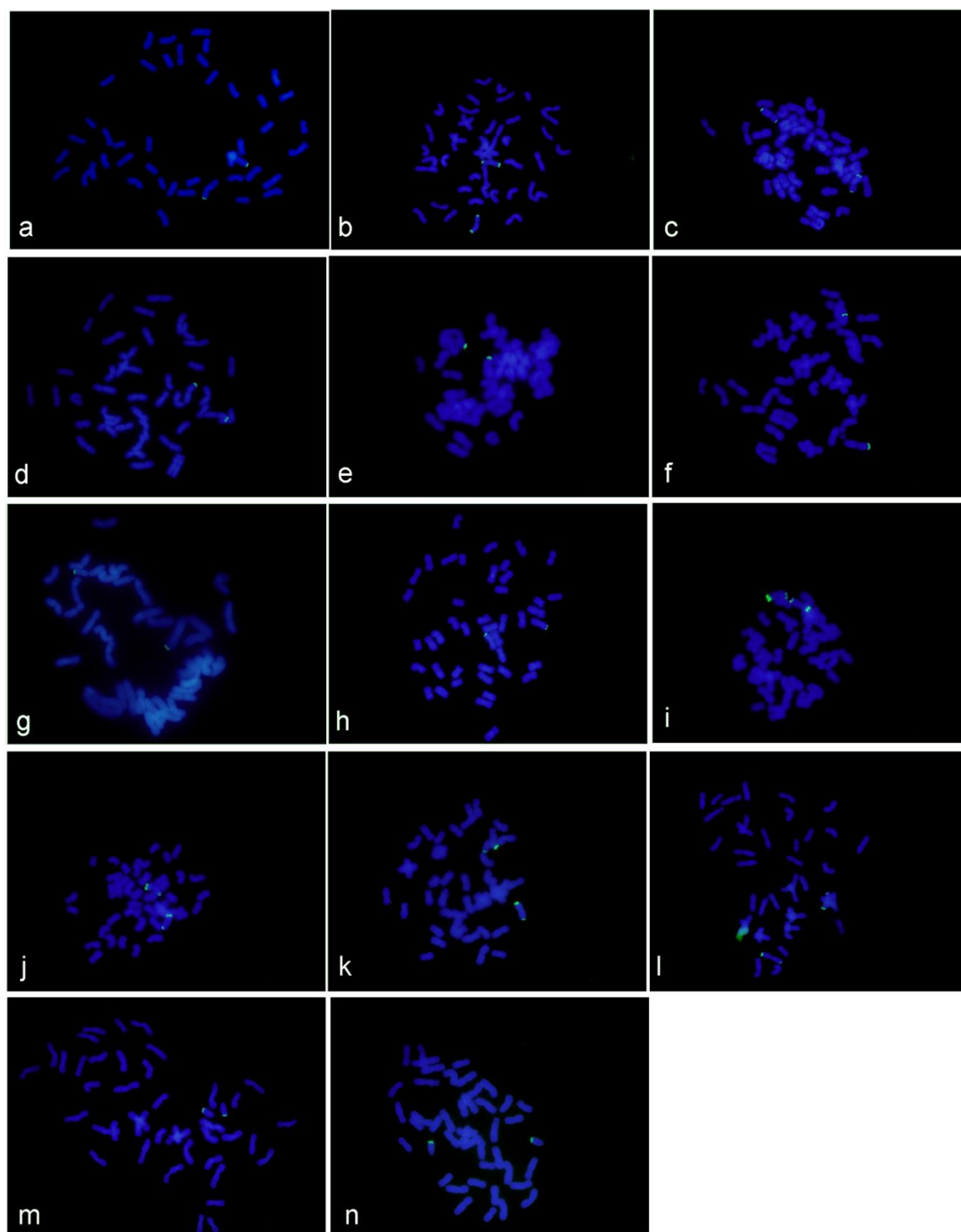
Affiliation

National Key Facility for Crop Gene Resources and Genetic Improvement (NKCRI), Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

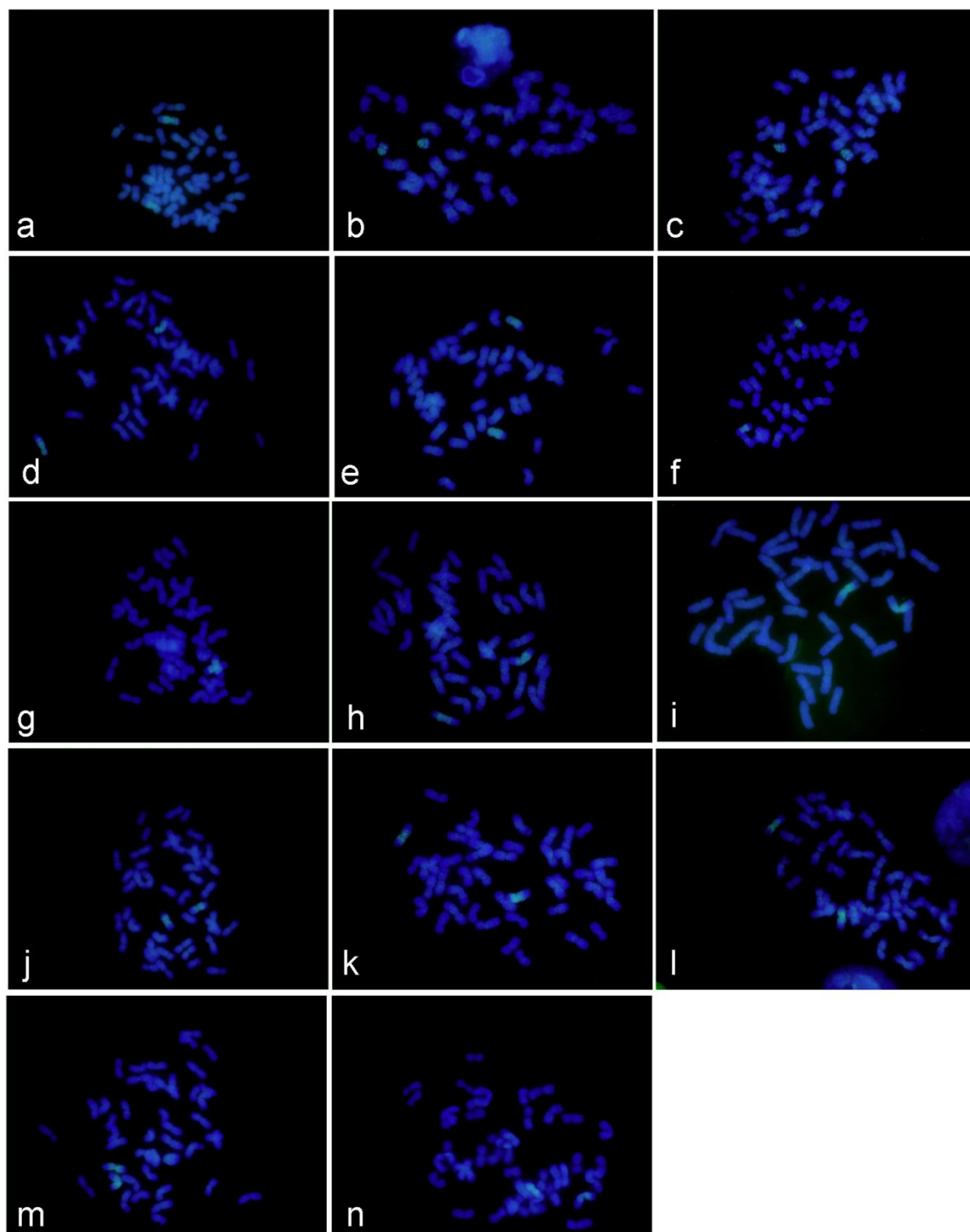
*Corresponding author: E-mail: lilihui@caas.cn, Fax: +86-10-62189650



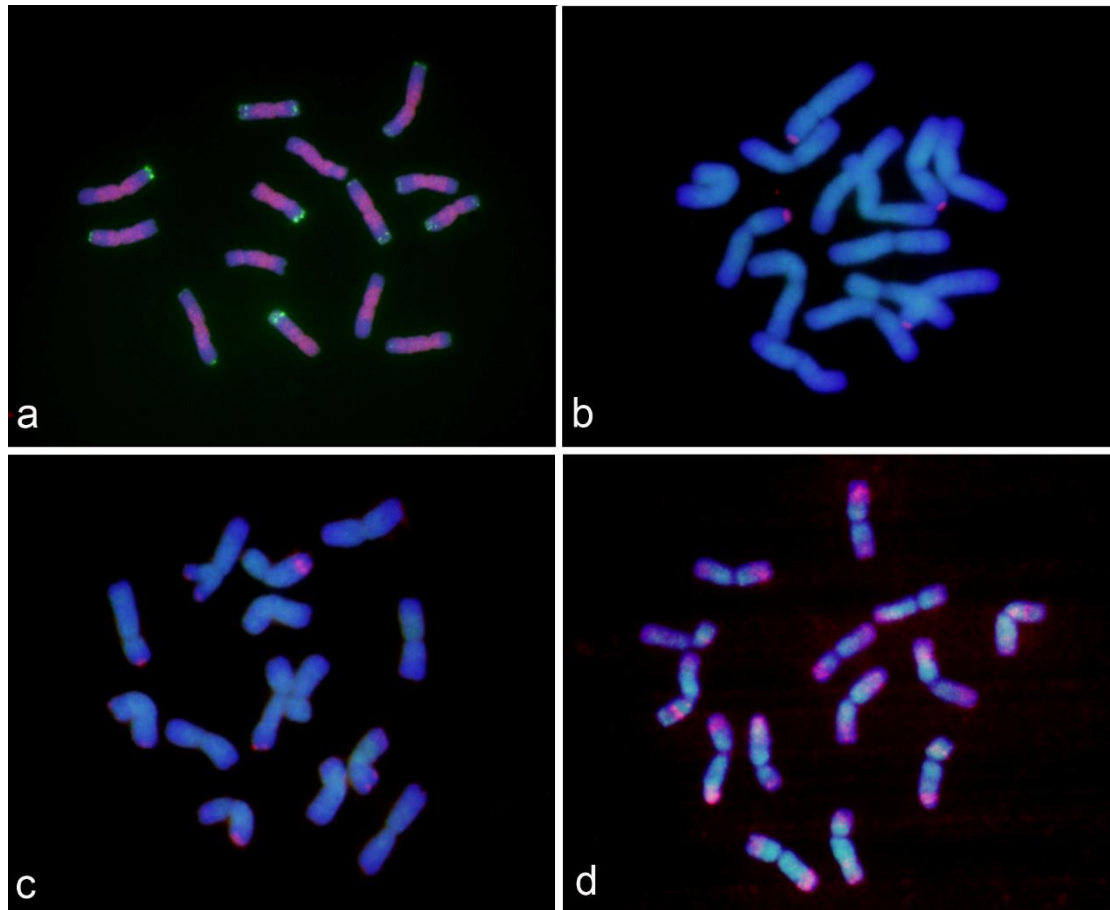
Supplementary Figure 1 Identification of diploid *A. cristatum* Z1842 chromosomes using pAcTRT1 (**a**) and pAcpCR2 (**c**) as probes. **a**, **c**: FISH patterns of two different individuals from Z1842; **b**: all the chromosomes were identified by pAcTRT1; **d**: there were two pairs of chromosomes identified by pAcpCR2.



Supplementary Figure 2 FISH patterns of 14 wheat-*A. cristatum* addition lines using pAcTRT1 as the probe. **a:** II-9-3, **b:** II-21-2, **c:** II-21-6, **d:** 4844-12, **e:** 5113, **f:** 5114, **g:** 5106, **h:** II-26, **i:** 5038, **j:** 5043, **k:** II-4-2, **l:** II-5-1, **m:** II-7-1, **n:** II-8-1.



Supplementary Figure 3 FISH patterns of 14 wheat-*A. cristatum* addition lines using pAcpCR2 as the probe. **a**: II-9-3, **b**: II-7-1, **c**: II-8-1, **d**: II-21-2, **e**: II-21-6, **f**: 5113, **g**: 4844-12, **h**: 5114, **i**: 5106, **j**: II-26, **k**: 5038, **l**: 5043, **m**: II-4-2, **n**: II-5-1.



Supplementary Figure 4 FISH patterns of diploid *A. cristatum* Z1842. **a:** The green signals represent the probe pAcTRT1, and the red signals represent the probe pAcpCR2, **b:** The red signals represent the probe 45rDNA, and the green signals represent the probe pAcpCR2, **c:** The red signals represent the probe pSc200, and the green signals represent the probe pAcpCR2, **d:** The red signals represent the probe pAs1, and the green signals represent the probe pAcpCR2.