



Online Resource 4 sc-GISH and sequential mc-FISH images of chromosomes showing Robertsonian translocations (indicated by arrows) between telocentrics from different J chromosomes of *Th. bessarabicum* and validated by genotyping data shown as GGT diagrams in insets. **a, b** WPGS id#28188 was found to be DA1JS·6JL. **c, d** DA3J was found to be DA4JS·3JL. **e, f** DA5J-2 was found to be DA6JS·5JL. **g, h** BC₃-277C was found to have translocation T4JS·7JL.