

***QTug.sau-3B* is a major quantitative trait locus for wheat hexaploidization**

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DOI: 10.1534/g3.114.013078

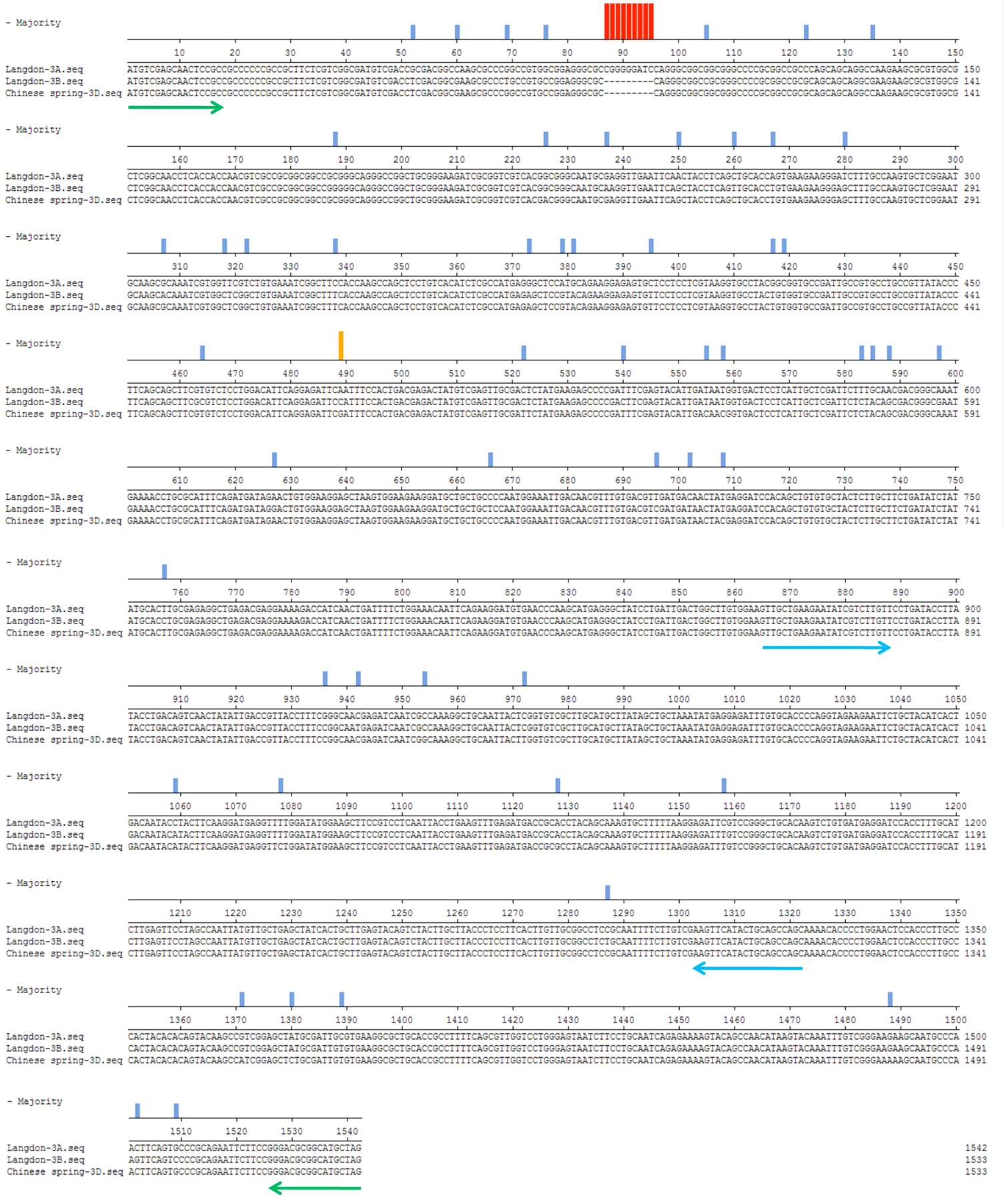


Figure S1 Coding DNA sequence (CDS) comparisons among homologs of *tam* in wheat chromosomes 3A, 3B and 3D. Primer sequences for the partial and full CDS are indicated by blue and green arrowheads, respectively. The bars in the major line indicate the SNPs.

Table S1 Primers used in this study

Name of primer	Primer sequences (5'→3')	Annealing temperature
6C6-3-F1	CTACTTCCACTGCACCAGAC	60
6C6-3-R1	CGCCCTACTTTGCACACAAAA	
F1	GTCGCTGAAGAATATCGTCTTGTT	58
R1	TGTTGGCTGCAGTATGAATTT	
F2	ATGTCGAGCAACTCCGC	60
R2	CTAGCATGCCGCGTCCC	
F10-RT	GCTTACCCTCCTTCACTTGT	60
R10-RT	CCTTCACGCAATCGCATAG	

Table S2 Genotypes, phenotypes and linkage map for DH1 population.

Table S3 Genotypes, phenotypes and linkage map for DH2 population.

Available for download at

<http://www.g3journal.org/lookup/suppl/doi:10.1534/g3.114.013078/-/DC1>

> GenBank no. KJ863557 [organism=*Triticum turgidum*] *T. turgidum* Langdon Ttam-3A mRNA , complete cds

ATGTCGAGCAACTCCGCCGCCCCCGCCGCTTCTCGTCGGCGATGTCGACCGCGACGG
CCAAGCGCCCGGCCGTGGCGGAGGGCGCCGGGGATCCAGGGCGGCGGGGCC
GCGGCCGCCAGCAGCAGGCCAAGAAGCGCGTGGCGCTCGGCAACCTACCACCAAC
GTCGCCGCGGCGGCCGCGGGCAGGGCCGGCTGCGGGAAGATCGCGGTTCGTCACGGC
GGCAATGCGAGTTGAATCAACTACCTCAGCTGCACCAGTGAAGAAGGGATCTTT
GCCAAGTGCTCGGAATGCAAGCGCAAATCGTGGTTCGTCTGTGAAATCGGCTTCCAC
CAAGCCAGCTCCTGTCACATCTCGCCATGAGGGCTCCATGCAGAAGGAGAGTGCTCC
TCCTCGTAAGGTGCCTACGGCGGTGCCGATTGCCGTGCCTGCCGTTATACCCTCAGC
AGCTTCGTGTCTCCTGGACATTCAGGAGATTCAATTTCCACTGACGAGACTATGTCGA
GTTGCGACTCTATGAAGAGCCCCGATTTTCGAGTACATTGATAATGGTGACTCCTCATT
GCTCGATTCTTTGCAACGACGGGCAAATGAAAACCTGCGCATTTCAGATGATAGAAC
TGTGGAAGGAGCTAAGTGAAGAAGGATGCTGCTGCCCAATGGAAATTGACAACGT
TTGTGACGTTGATGACAACCTATGAGGATCCACAGCTGTGTGCTACTCTTGCTTCTGAT
ATCTATATGCACTTGCAGAGGGCTGAGACGAGGAAAAGACCATCAACTGATTTTCTG
GAAACAATTCAGAAGGATGTGAACCCAAGCATGAGGGCTATCCTGATTGACTGGCTT
GTGGAAGTTGCTGAAGAATATCGTCTTGTTCCTGATACCTTATACCTGACAGTCAACT
ATATTGACCGTTACCTTTTCGGGCAACGAGATCAATCGCCAAAGGCTGCAATTACTCGG
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TTCCTAGCCAATTATGTTGCTGAGCTATCACTGCTTGAGTACAGTCTACTTGCTTACCC
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GCGATTGCGTGAAGGCGCTGCACCGCCTTTTCAGCGTTGGTCTGGGAGTAATCTTCC
TGCAATCAGAGAAAAGTACAGCCAACATAAGTACAAATTTGTCGGGAAGAAGCAAT
GCCCAACTTCAGTGCCCGCAGAATTCTTCCGGGACGCGGCATGCTAG

> GenBank no. KJ863558 [organism=*Triticum turgidum*] *T. turgidum* Langdon Ttam-3B mRNA, complete cds

ATGTCGAGCAACTCCGCCGCCCCCGCCGCTTCTCGTCGGCGATGTCGACCTCGACGG
CGAAGCGCCCTGCCGTGCCGGAGGGCGCCAGGGCGGCCGCGGGCCCCGCGGCCGCG
CAGCAGCAGGCGAAGAAGCGCGTGGCGCTCGGCAACCTACCACCAACGTCGCCGCG
GCGGCCGGGGCAGGGCCGGCTGCGGGAAGATCGCGGTTCGTCACGGCAGGGCAATGC
AAGGTTGAATTCAGCTACCTCAGTTGCACCTGTGAAGAAGGGAGCTTTGCCAAGTGC
TCGGAATGCAAGCACAAATCGTGGCTCGGCTGTGAAATCGGCTTTCACCAAGCCAGC
TCCTGTACATCTCGCCATGAGAGCTCCGTACAGAAGGAGAGTGTTCTCCTCGTAAG
GTGCCTACTGTGGTGCCGATTGCCGTGCCTGCCGTTATACCCTCAGCAGCTTCGCGT
CTCCTGGACATTCAGGAGATTCCATTTCCACTGACGAGACTATGTCGAGTTGCGACTC
TATGAAGAGCCCCGACTTCGAGTACATTGATAATGGTGACTCCTCATTGCTCGATTCT

CTACAGCGACGGGCGAATGAAAACCTGCGCATTTTCAGATGATAGGACTGTGGAAGGA
GCTAAGTGGAAGAAGGATGCTGCTGCTCCAATGGAAATTGACAACGTTTGTGACGTC
GATGATAACTATGAGGATCCACAGCTGTGTGCTACTCTTGCTTCTGATATCTATATGC
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CTGAAGAATATCGTCTTGTTCCTGATACCTTATACCTGACAGTCAACTATATTGACCG
TTACCTTTCCGGCAATGAGATCAATCGCCAAAGGCTGCAATTACTCGGTGTCGCTTGC
ATGCTTATAGCTGCTAAATATGAGGAGATTTGTGCACCCCAGGTAGAAGAATTCTGCT
ACATCACTGACAATACATACTTCAAGGATGAGGTTTTGGATATGGAAGCTTCCGTCT
CAATTACCTGAAGTTTGTGATGACCGCACCTACAGCAAAGTGCTTTTAAAGGAGATTT
GTCCGGGCTGCACAAGTCTGTGATGAGGATCCACCTTGCATCTTGAGTTCCTAGCCA
ATTATGTTGCTGAGCTATCACTGCTTGTGAGTACAGTCTACTTGCTTACCCTCCTTCACTT
GTTGCGGCCTCTGCAATTTTCTTGTGCAAGTTCATACTGCAGCCAGCAAAAACACCCCT
GGAATCCACCCTTGCCACTACACACAGTACAAGCCGTCGGAGCTATGCGATTGTGT
GAAGGCGCTGCACCGCCTTTTCAGCGTTGGTCTCTGGGAGTAATCTTCTGCAATCAGA
GAAAAGTACAGCCAACATAAGTACAAATTTGTGCGGGAAGAAGCAATGCCCAAGTTCA
GTCCCCGAGAATTCTTCCGGGACGCGGCATGCTAG

> GenBank no. KJ863559 [organism=*Triticum aestivum*] *T. aestivum* Chinese spring Ttam-3D
mRNA, complete cds

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