

Supplementary materials

Supplementary materials 1.

Sequences, targets, sizes of amplicons and references for the Universal probes and primers used. Common fluorescence-specific tails are indicated in Italics. Fluorophores and quenchers are in Bold.

Name	Sequence (5' – 3')	Target	Reference
Uni-Probe-1	FAM -AGCGATGCGTCGAGCATCGC-(T*- BHQ1)-GAAGGTGACCAAGTTCATGCT	Amplifluor-like PCR	Myakishev et al., 2001; Rickert et al., 2004; Khripin, 2006; Jataev et al., 2017
Uni-Probe-2	VIC -AGGACGCTGAGATGCGTCC-(T*- BHQ1)-GAAGGTGCGGAGTCAACGGATT		
KATU-48-F1	<i>GAAGGTGACCAAGTTCATGCTGTTGCTTCTCCTTGCGA</i>	Amplifluor-like PCR, 75 bp	Shavrukov et al., 2016
KATU-48-F2	<i>GAAGGTGCGGAGTCAACGGATTGTTGCTTCTCCTGCCGC</i>		
KATU-48-R	TCTGTGGACTCAAGCGCATC		
KATU-W58-F1	<i>GAAGGTGACCAAGTTCATGCTCCTAATGGTAGCTTCGAC</i>	Amplifluor-like PCR, 99 bp	Current study
KATU-W58-F2	<i>GAAGGTGCGGAGTCAACGGATTCTTAATGGTAGCTTCGAT</i>		
KATU-W58-R	AAGGTACTGTTACTAGATCAG		
KATU-48-Fq	TGTTGCTTCTCCTGCCG	qPCR, 75 bp	Current study
KATU-48-Rq	TCTGTGGACTCAAGCGCAT		
KATU-W58-Fq	TTCCTTAATGGTAGCTTCGA	qPCR, 97 bp	Current study
KATU-W58-Rq	GGTACTGTTACTAGATCAG		
ADPRF-F	GCTCTCCAACAACATTGCCAAC	Reference gene, qPCR, 165 bp	Paolacci et al., 2009
ADPRF-R	GCTTCTGCCTGTCACATACGC		
GAPDH-F	TTGCTCTGAACGACCATTTC	Reference gene, qPCR, 175 bp	
GAPDH-R	GACACCATCCACATTATTCTTC		

Supplementary materials 2.

SNP position and design of allele-specific primers for the Amplifluor-like SNP marker

KATU-W58 in wheat. The sequence was retrieved from the Cereal DB database (<http://www.cerealsdb.uk.net/cerealgenomics/CerealsDB>), Contig BC000018972. The SNP position in the sequence is indicated with a ‘Y’ highlighted in red, and consists of either a ‘C’ or ‘T’ nucleotide. Two forward primers and one common reverse primer are shown in Bold and highlighted in blue and purple, respectively. Amplicon size is indicated. The tails are shown in normal case.

Sequence:

5' -T**TCCTAATGGTAGCTTCGAY**GCTGGTATGGCACCAGCGGTAGGNNNNNNNGATTGTGATTGT
TAGGTGATTTGAGACT**GATCTAGTAAACAGTACCTT**CGTTCGCCCTAGTTCTATCTAAC-3'
PCR product size: 99 bp

Primers:

KATU-W58-F1: 5' -GAAGGTGACCAAGTTCATGCT**CCTAATGGTAGCTTCGAC**-3'
KATU-W58-F2: 5' -GAAGGTCGGAGTCAACGGATT**TCCTAATGGTAGCTTCGAT**-3'
KATU-W58-R: 5' - **AAGGTACTGTTACTAGATCAG**