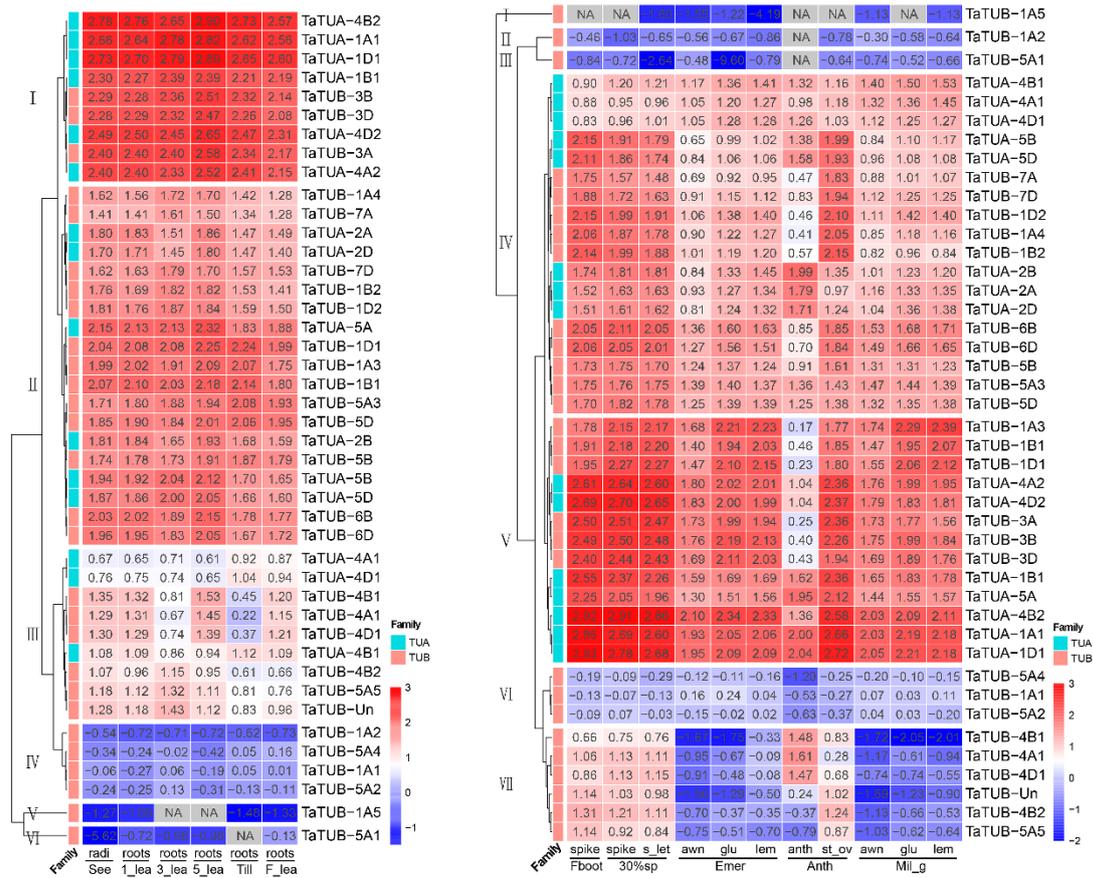
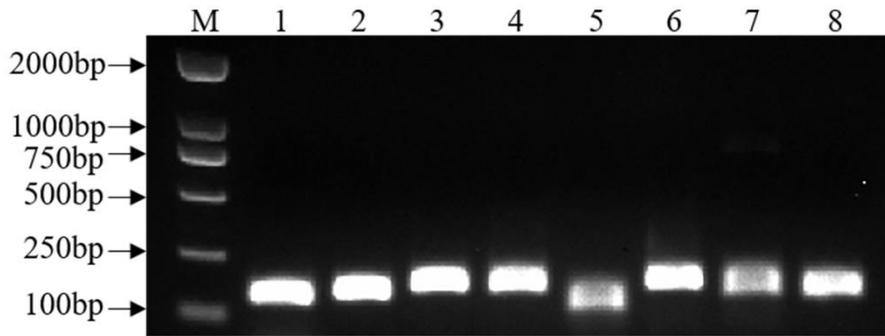


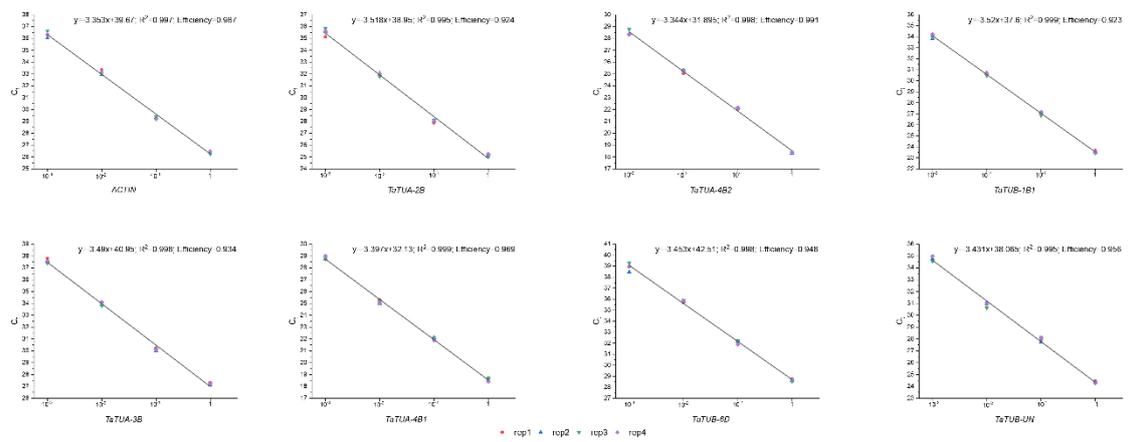
**Figure S1.** Expression patterns of *TaTUA* and *TaTUB* genes in wheat leaf and grain during various developmental stages. **(a)** Expression patterns of *TaTUA* and *TaTUB* genes in wheat leaf; **(b)** Expression patterns of *TaTUA* and *TaTUB* genes in grain. Abbreviations above the line represent organs (tissues) and abbreviations below the line represent developmental stages. 1\_lb: first leaf blade; 3\_lb: third leaf blade; 5\_lb: fifth leaf blade; flb: flag leaf blade; Grain: grain; See: seeding stage; 3\_lea: three leaf stage; 5\_lea: fifth leaf stage; Till: tillering stage; F\_lea: flag leaf stage; Fboot: full boot; 30%sp: 30% spike; Emer: ear emergence; Mil\_g: milk grain stage; S\_dou: soft dough; D\_dou: hard dough; Rip: ripe stage.



**Figure S2.** Expression patterns of *TaTUA* and *TaTUB* genes in wheat root and different tissues of the spike during various developmental stages. **(a)** Expression patterns of *TaTUA* and *TaTUB* genes in wheat root; **(b)** Expression patterns of *TaTUA* and *TaTUB* genes in different tissues of the spike. Abbreviations above the line represent organs (tissues) and abbreviations below the line represent developmental stages. radi: radicle; roots: roots; spike: spike; s\_let: spike-lets; awn: awns; glu: glumes; lem: lemma; anth: anther; st\_ov: stigma and ovary; See: seeding stage; 1\_lea: first leaf stage 3\_lea: three leaf stage; 5\_lea: fifth leaf stage; Till: tillering stage; F\_lea: flag leaf stage; Fboot: full boot; 30%sp: 30% spike; Emer: ear emergence; Anth: anthesis; Mil\_g: milk grain stage.



**Figure S3.** The gel electrophoresis of the primers. M: marker; 1: *TaActin*; 2: *TUB-1B1*; 3: *TUA-2B*; 4: *TUB-3B*; 5: *TUB-4A1*; 6: *TUA-4B2*; 7: *TUB-6D*; 8: *TUB-Un*.



**Figure S4.** The standard curves of the primers.