1. List of primer used for isolation and full length cloning of Ecα-prolamin and its expression analysis in developing spikes, tubulin (Tub) primer is used as housekeeping gene

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| --- | --- | --- | --- |
| Sl. No. | Name of primer | Primer sequence | Aim |
| 1 | α-prolF | TCAGCACAATGGCAGCCAAGAT | α-prolamin partial gene amplification |
| 2 | α-prolR | TACACACGGCTGGTTGATGA | α-prolamin partial gene amplification |
| 4 | PoutF | CAACAGGTGCTATTGCCTTACTTAT | Outer primer for 3’RACE |
| 5 | PInn1F | CCTACATCTACAGGCAACAACAAC | Inner1st primer for 3’RACE |
| 6 | PInn2F | CACCTATTATGGACAACAACAACTG | Inner 2nd primer for 3’RACE |
| 7 | P RTF | CAGGCATCTCATCCTCATCATC | Real time PCR for α-prolamin |
| 8 | PRT R | GTTGCACTATTGACCACACCTG | Real time PCR for α-prolamin |
| 9 | TubF | TGGTACGTGGGTGAGGGTAT | For endogenous control |
| 10 | TubR | AGCAGGAAGCGGTAGATTCA | For endogenous control |

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**Fig: -1 Selection of different stage of finger millet spikes in developing stages**

1. **Spike emerging, S1 stage B) pollination stage, S2 stage C) dough milking stage, S3 stage D) maturation stage, S4 stage**

A

B

C

D