**Identification of a Major-effect QTL Associated with Pre-harvest Sprouting in Cucumber (*Cucumis sativus* L.) Using the QTL-Seq Method**

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Table S4 The Physical Position and Primers of the Markers

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| --- | --- | --- | --- |
| Locus | Physical position (bp) on Chr4 | F-primer | R-primer |
| SNP-1 | 13786976 | ACAACTTTGGTCATTAAAGACACC | TGGCTAATTTTATACTTCTTTTCATGC |
| InDel-1 | 13786987 |
| SNP-2 | 17143696 | ACTGGAGCAGATGACAATATATCC | AACAACATGAGAGTGGAAAAGAAG |
| SNP-3 | 18251895 | CGAGAAAGATTGCACTAAAATGTC | CTCGATCGAAGAATCTCTACTTTG |
| SNP-4 | 18251951 |
| SNP-5 | 18251971 |
| SNP-6 | 18251973 |
| SNP-7 | 18601010 | CTTTCTCCAAAGAACCTCTTTCTC | TTTCACCTTCCAATTTCAATCCTC |
| SNP-8 | 18605011 | TTGTTATTAGGATGCTTCCCTTTG | GCCAACATCAGACTAAGAATCATC |
| SNP-9 | 18614772 | TGTAGGTAACAAGTACATGGGTAG | CATTCGCTGATTAAAATGAAGCAG |
| SNP-10 | 18937823 | TAGACTCCATGTCACTACATTTTC | CTCCACTAAAAACTTATAGCCACG |
| SNP-11 | 18938019 | GCTCTCTGATTGTCGTCTGTTACG | CTAATGGACCTAGAGATCACAAGCTAC |
| SNP-12 | 18938031 |
| SNP-13 | 19973681 | GCATTCTATCCAATATGGTACTTCC | GGTTTCTTCCTCATCCATACTTATC |
| SNP-14 | 19973692 |
| SNP-15 | 19973724 |
| SNP-16 | 19973741 |
| SNP-17 | 19973782 |
| SNP-18 | 19995077 | TTCATGATTCTGAAATAAAACAGC | TGATGACTTTATCTCGAAAACACC |
| SNP-19 | 19995107 |
| SNP-20 | 19995109 |
| SNP-21 | 19995123 |
| SNP-22 | 19995137 |
| SNP-23 | 20505510 | AATGTGTTTCTCTCTTGACAACAG | TTCTCTCTTTACTTCTACCAGTGG |
| SNP-24 | 20521004 | TGTACCTATAAATCTTGGAACCTTC | TCAGGAGCTTGCCTATTTAAAAAC |
| SNP-25 | 20791425 | TAAATCTAATATTATTATCATGTTGTTGTG | GTTCTTTCCCAGCCAAAATTTG |
| InDel-2 | 21075353 | GTATCAACAATATCAATGTAATGGTTG | CTAAGTGATATAAATGTTGATAGCATG |
| InDel-3 | 21075917 | GACTATTTTATTCATCGGGCTCTC | AAATGACAATTTTGCCCCTTAAAC |
| InDel-4 | 21079500 | ACCATTGTGTAAATGTATGAAATTTCC | TTTGCAAATACCAATGTAACGTTC |