**S2**.Upstream region of AO-A3 gene. The MITE family DTT has been reported in orange letters and the MITE family DTC in pink.

> Chinese Spring\_contig7AL\_4455104 partial sequence

ATGCAAAAGTTATAGCCGTTTTACTTTTTCATGACACTTTTTTGCAAAACATGTTCAAATTTAAGTTTTTTTATTTTCCTAACTAGTAGATGTAGTAATATAACTACATCTCGAAGGATTTTATTTTTTGAAGTTTTTATCATTTTCTTTTGTTTTTTTCAAAACTGAAATGGCGATACACCCGGGGGGTAGAGTTTGAGAAATGGGCCCTTTAGTCCTGGTTTGAGACACGAACTGGGACAAAAGGGCATCGCACCCTTTAGTCCCGATTCGTGTGTCAAACCGGGACTAAAGGGCCCATTTGAACCAGGACTAATGCCTTTAGCCGCTTGAACCGGGACTAATGCTATATTAGTCCCAGTTCGTAATGCAATCGGAACTAATGTGTATATTGCGCTGTGACCAAAGCCCTGTTTTCTACTAGTGGCTCCACCTGGATAATATATTCCCGGTCTAGCGCAAGTCAATGTCTTCCACCCCACCAATTTCTTAGCTCAATGAGCCTGCTAGAACTTATGGCAACCGCACCACTAAGATTGAGCTCCTCCCCGTTGGACCTGCTCTTGGTAGCGCCATTGGTAACGGCCTCTCCTTCTCATAGGCTCAAAACCCTCAAAAGGTCAGTACATCCACAATGTACATTGAGCCAATGTAAGTATGCTCTACATTTTAGAACAAGACCTAATGAGTTACTACCTACGTTTCAAAATAAGTGAAGTTCTACTTTGTCCTTGGTCAAACTTGTTTAAGCTTGACTAACCCTATAGAAAAATATGTCAAGATCTACAACACAAATACACTAGTGCAAAAATAATCTCATGAGACTAATTTGATGTTCTAGATGTTAATATGTTTTTCTATAGACTTTGTTAAATTTACACAAATTTGACTTAGGAAAAATTTAGAACTTTAATTCTTTTGAAACGGAAGTAGCATCTCTTAAGCTAAGGATCCAAAGTGACAATTTAACCACATAAGTGGTGGGTAGCATTTAACATGATAGCATTTGGATCAACAAAGATGTAGGGAAAGCTATTCAAAATTCGGCTTGATTTTGTATTATTTTTTTGTGGATTACACCAGCCTGATGAAATAGAGTTTGTGAAGATCACGAATCCCTGGTTTAGACACAAGTGCTCTCTCTATTAATTAATATAAAAGCCTTTAGATCACTATCACTAAATAGTGCTCTAAACACTCTTATATTTTTTACGGAGAAAGTATCATTACTACAAACTCCGCGGATGGTGATGCAATACTGCAAAAGTTTATGAAAAGAATAAAATGCACGGAATGCGTAAATTTGTTAGTGATGTTACTTTAAAAACAGACCCATCAACCATATCAATATTTGACAAAATCACAGGAATATTGCAAAAGAGCCCCTCATACCTCTGAGAGTAAAAACGGTACCCAAATTTCCCAAACCGGCCCTCAAATCCCTAGTTCTGCGTTGCCGCCGCACGTCTTCCCCAAATCCGGCGTCATCTCCGTCGAGCCACCGTGTCGTCCCTTTCCGTCCCCCGTCCCGTCCCCGCTCCCCTCGCTCTCCAATCTCTTACCATTTCTCTGCCTCCGCCCGCCCCCTCTGACCCAACCCATG