```
                1360        *      1380        *      1400        *      1420        *      1440        *      1460
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1469
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1469
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1469
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1469
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGG--------CGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1461
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGG--------CGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1461
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGG--------CGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1461
TaFlo2-2AL : TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGG--------CGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG :  1461
             TGTGTGCTCCGTCGGAGTAGAGGAGGGGCGCTCTGAGGGAGGGAGGG        CGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGG

             *      1480        *      1500        *      1520        *      1540        *      1560        *      1580
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTACATCGCTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1582
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTACATCGCTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1582
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTACATCGCTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1582
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTACATCGCTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1582
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1574
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1574
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1574
TaFlo2-2AL : CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGAGGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC :  1574
             CGACCGCAAGAAGAAGGAGGAGAAAGGTACGGACTGACCGGCGA GCAACCCATCTCTGCGTGCCCGT CATCG TGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCC

                     *      1600        *      1620        *      1640        *      1660        *      1680        *
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1695
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1695
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1695
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1695
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1687
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1687
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1687
TaFlo2-2AL : TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG :  1687
             TCGGCAGCATTGAATTCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAG

                1700        *      1720        *      1740        *      1760        *      1780        *      1800
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAAT-GAAGGATACGCCGCCCG :  1807
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAAT-GAAGGATACGCCGCCCG :  1807
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAAT-GAAGGATACGCCGCCCG :  1807
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAAT-GAAGGATACGCCGCCCG :  1807
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCG :  1800
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCG :  1800
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCG :  1800
TaFlo2-2AL : TACGCAGAAGCAAACAGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCG :  1800
             TACGCAGAAGCAAACAGTAATCCTGTCTGTT TTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAAT GAAGGATACGCCGCCCG

                 *      1820        *      1840        *      1860        *      1880        *      1900        *      1920
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1920
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1920
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1920
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1920
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1913
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1913
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1913
TaFlo2-2AL : GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC :  1913
             GCCCCTTTCCCCGCTCATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGC

                     *      1940        *      1960        *      1980        *      2000        *      2020        *
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2033
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2033
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2033
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2033
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2026
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2026
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2026
TaFlo2-2AL : GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC :  2026
             GCCGTGGGGGCGACGTCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCC
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FigS1a. Part of *TaFlo2A1* sequence in eight accessions. The first four sequences are of accessions with low TGW and other four sequences are of accessions with high TGW.

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                1360        *      1380        *      1400        *      1420        *      1440        *      1460
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
TaFlo2-2BL : TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA :  1469
             TAGAGGAGGGGCGCTCTGAGGGAGGGAGGGCGGCAATGGCCCCCAAGCACGCCGGCCGTGGCAAGGGCCGGGGCGGCGGCGGCAAGGGCGACCGCAAGAAGAAGGAGGAGAAA

             *      1480        *      1500        *      1520        *      1540        *      1560        *      1580
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
TaFlo2-2BL : GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG :  1582
             GGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAATTCATGAATTG

                     *      1600        *      1620        *      1640        *      1660        *      1680        *
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
TaFlo2-2BL : CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG :  1695
             CTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAACAGTAATCCTG

              1700        *      1720        *      1740        *      1760        *      1780        *      1800
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
TaFlo2-2BL : TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT :  1808
             TCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCGGCCCCTTTCCCCGCTCATGATTAGT

              *      1820        *      1840        *      1860        *      1880        *      1900        *      1920
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
TaFlo2-2BL : TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT :  1921
             TTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACGTCAGTTGGGT

                     *      1940        *      1960        *      1980        *      2000        *      2020        *
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
TaFlo2-2BL : CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT :  2034
             CATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGTAGCTGTTGGT
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FigS1b. Part of *TaFlo2-B1* sequence in eight accessions. The first four sequences are of accessions with low TGW and other four sequences are of accessions with high TGW.

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                1360      *      1380      *      1400      *      1420      *      1440      *      1460
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
TaFlo2-2DL : GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT :  1469
             GGAGGAGAAAGGTACGGACTGACCGGCGACGCAACCCATCTCTGCGTGCCCGTGCATCGTTGTGCCGTCCATAATCGTTGCCGCCGTCGAGTTCGTCCTCGGCAGCATTGAAT

             *      1480      *      1500      *      1520      *      1540      *      1560      *      1580
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
TaFlo2-2DL : TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC :  1582
             TCATGAATTGCTGTTTCTGACGGTGCCGTATGCCCATATTTGTTCCATCGCTTTACGATTTTGCGCTCGCATAAAAGGCAAAAGAGACGGGCAATTAGTACGCAGAAGCAAAC

                     *      1600      *      1620      *      1640      *      1660      *      1680      *
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
TaFlo2-2DL : AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT :  1695
             AGTAATCCTGTCTGTTGTTTGCTCGTCTTTCGCTTTTTCAAATCGTTTCCTTCGATTCCTGGTTATGCTTTGCGCTGAATTGAAGGATACGCCGCCCCGGCCCCTTTCCCCGCT

              1700      *      1720      *      1740      *      1760      *      1780      *      1800
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
TaFlo2-2DL : CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG :  1808
             CATGATTAGTTTTCGCCGCGCCCGATGCTCCTCCCTCTTTTTTTTACCTCTTCAGCTTCGGATCACGATGCCGGTTCCGTTTCTTGGTGCAACCGCGCGCCGTGGGGGCGACG

              *      1820      *      1840      *      1860      *      1880      *      1900      *      1920
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
TaFlo2-2DL : TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT :  1921
             TCAGTTGGGTCATGCGGTTCGCGGGCGCGCAGTGAATTGCGCTCGCGCGCGGCCGGCCGGCCGTGGAGGCTCCTCCGACCTCTGACCGCCATAATTCCAACCATTCTTGTTGT

                     *      1940      *      1960      *      1980      *      2000      *      2020      *
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
TaFlo2-2DL : AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT :  2034
             AGCTGTTGGTGATGGTGGCGATGTCTGAAACTCTCCGTCTCCTCGTGTGTTGCAGTGGTGCCGAGCGTGGTGGACGTCGCGGTCACCACCCCCTACGAGTCCCAGGTGACACT
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FigS1c. Part of *TaFlo2-D1* sequence in eight accessions. The first four sequences are of accessions with low TGW and other four sequences are of accessions with high TGW.