## >Chardonnay 62 1223

AGTTGATACATAATGGGTAAATATCTCTTATGACACACCCCTTTGTCCATGATCTCCAGCGCATTCGGAAGCCAG GTAATGCACCATAAGAAACGTGTCGAATCAACCAATTAGGGGTCTGGTGTCCGAGTCATGAGATAGAACAGGTTC GAGGTTGTTATATATCAATCAATAATTAGAGAAGGAGCCGGTCTCTTGTGTTGAGTTGACTCGATGGAGAGCTTA GGAGTTAGAAAGGGTGCATGGACCCAAGAAGAGGATGTTCTCCTGAGGAAATGCATTGAGAAATATGGAGAAG GAAAGTGGCATCTGGTTCCCCTCCGAGCAGGTAACATGAAAGAGAAAGGGATCAGTATTAGTTTGTGTTTTTTAC TTCTGTTTTGCTTAAAGAGTTTCGTTTTCTTGAGTTTGCAGGGTTGAATAGATGCCGAAAAAGCTGCAGGTTGAGA TGGCTCAATTATTTGAAGCCGGATATCAAGAGAGAGAGTTTGCATTAGACGAGGTTGATCTCATGATTAGGCTTC ACAATTTGTTGGGGAACAGGCAAGTCTATAATAACTCAAGTACTAGCTTGATAATGATATTATATTAGTTCTGAAG CTGTTCAGAACTTACAAAAGAGCTGTTCAGTTGATACTTTGTCTGATGTTGTGCGTGTATAGATGGTCCTTGATTGC GGGTAGG

>Kabernet\_Cortis\_47\_1223

AGTCAGCAATTAATTCCTAAATATCTCTTATGACACACCCCTTTGTCCATGAACTCCAGCGCATTTGGAAGCC-AGTAATGCACCATAAGAAACGTGTCGAATAAACCAATTAGGGGTCTGGTGTCCGAGTCATGAGATAGAACAGGTT  ${\tt CGAGGTTGTTATATCAATCAATCAATAATTAGAGAAGGAGCCGGTCTCTTGTGTTGAGTTGACTCGATGGAGAGCTTA}$ GGAGTTAGAAAGGGTGCATGGATCCAAGAAGAGGATGTTCTCCTGAGGAAATGCATTGAGAAATATGGAGAAAGG GGCTCAATTATTTGAAGCCGGATATCAAGAGAGAGAGAGTTTGCATTAGACGAGGTTGATCTCATGATTAGGCTTC ACAATTTGTTGGGGAACAGGCAAGTCTATAATAACTCAAGTACTAGCTTGATAATGATATTATATTAGTTCTGAAG GGGTAGG

>Sibirkovii 9 1223

AGTTGATACATAATGGGTAAATATCTCTTATGACACACCCCTTTGTCCATGATCTCCAGCGCATTCGGAAGCCAGGTAATGCACCATAAGAAACGTGTCGAATCAACCAATTAGGGGTCTGGTGTCCGAGTCATGAGATAGAACAGGTTC GAGGTTGTTATATATCAATCAATAATTAGAGAAGGAGCCGGTCTCTTGTGTTGAGTTGACTCGATGGAGAGCTTA GGAGTTAGAAAGGGTGCATGGACCCAAGAAGAGGATGTTCTCCTGAGGAAATGCATTGAGAAATATGGAGAAG GAAAGTGGCATCTGGTTCCCCTCCGAGCAGGTAACATGAAAGAGAAAGGGATCAGTATTAGTTTGTGTTTTTTTAC TTCTGTTTTGCTTAAAGAGTTTCGTTTTCTTGAGTTTGCAGGGTTGAATAGATGCCGAAAAAGCTGCAGGTTGAGA ACAATTTGTTGGGGAACAGGCAAGTCTATAATAACTCAAGTACTAGCTTGATAATGATATTATATTAGTTCTGAAG CTGTTCAGAACTTACAAAAGAGCTGTTCAGTTGATACTTTGTCTGATGTTGTGCGTGTATAGATGGTCCTTGATTGC GGGTAGG

>Sypun\_Chernii\_170\_1223

AGTCAGCAATTAATTCCTAAATATCTCTTATGACACACCCCTTTGTCCATGAACTCCAGCGCATTTGGAAGCC-AGTAATGCACCATAAGAAACGTGTCGAATAAACCAATTAGGGGTCTGGTGTCCGAGTCATGAGATAGAACAGGTT CGAGGTTGTTATATATCAATCAATAATTAGAGAAGGAGCCGGTCTCTTGTGTTGAGTTGACTCGATGGAGAGACCTTA GGAGTTAGAAAGGGTGCATGGATCCAAGAAGAGGATGTTCTCCTGAGGAAATGCGTTGAGAAATATGGAGAAG TTCTGTTTTGCTTAAAGAGTTTCATTTTCTTGAGTTTGCAGGGTTGAATAGATGCCGAAAAAGCTGCAGGTTGAGA TGGCTCAATTATTTGAAGCCGGATATCAAGAGAGAGAGTTTGCATTAGACGAGGTTGATCTCATGATTAGGCTTC A CAATTTGTTGGGGAACAGGCAAGTCTATAATAACTCAAGTACTAGCTTGATAATGATATTATTATTAGTTCTGAAGCTGTTCAGAACTTACAAAAGAGCTGTTCAGTTGATACTTTGTCTGATGTTGTCGGTGTATAGAAGGTCCTTGATTGC CTGTTCAGAACTTACAAAAGAGCTGTTCAGTTGATACTTTGTCTGATGTTGTCTGATGTTGTCTGATACTAGAAGGTCCTCGATCG CGGGTAGG

Fig. 2. Sequencing of 850 bp amplicons of VvMybA1 alleles in colored (Cabernet Cortis and Sypun black) and uncolored (Chardonnay and Sibirkovy) varieties of European wine grape (Vitis vinifera L.) (Anapa zonal ampelographic collection SKANCSVV) (for the figure, see http://www.agrobiology.ru).

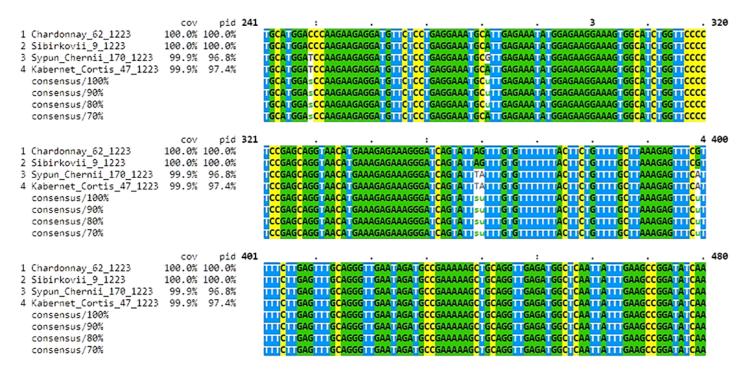


Fig. 3. Analysis of VvMybA1 gene allele regions in four native and introduced varieties of European wine grape (Vitis vinifera L.) (colored Cabernet Cortis and Sypun black and uncolored Chardonnay and Sibirkovy) (ClustalO program; Anapa zonal ampelographic collection SKANCSVV). Nucleotide polymorphisms identified by alignment of the analyzed sequences in four genotypes are highlighted as in white. A unique nucleotide substitution at nucleotide position 281 in Sipun black variety is marked by white background. For the figure, see http://www.agrobiology.ru.

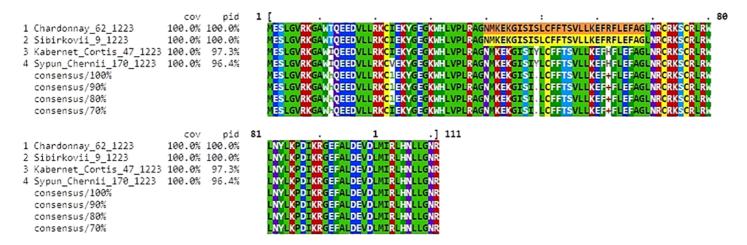


Fig. 5. Alignment of amino acid sequences (with an intron insertion marked) translated from VvMybA1 gene alleles in four native and introduced varieties of European wine grape (Vitis vinifera L.) (colored Cabernet Cortis and Sypun black and uncolored Chardonnay and Sibirkovy) (ClustalO program; Anapa zonal ampelographic collection SKANCSVV). In Sypun black variety, in the position 23 (highlighted in white background) there is an amino acid substitution (isoleucine characteristic of the other three varieties is replaced to valine). For the figure, see http://www.agrobiology.ru.