

V 5' ATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGATACGTTCTCTATGGAGGATGGCATAGGTGATGAAGATGAAGGAGAAGTACAGAACGCTGAAGTGAA
 |||
 Vt XV 5' ATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGATACGTTCTCTATGGATGTAGGAACATCAACATGCTCAATCTCAATCGTTAGCACATCACATTTTTC
 |||
 XV 5' TGGAGAAGGGTAAATTTTTAATTTGGGATGTTTTACTTGAAGATTCITTAGTGTAGGAACATCAACATGCTCAATCTCAATCGTTAGCACATCACATTTTTC
 |||

XV 5' TGGAGAAGGGTAAATTTTTAATTTGGGATGTTTTACTTGAAGATTCITTAGTGTAGGAACATCAACATGCTCAATCTCAATCGTTAGCACATCACATTTTTC
 |||
 XVt V 5' TGGAGAAGGGTAAATTTTTAATTTGGGATGTTTTACTTGAAGATTCITTAGGGATGGCATAGGTGATGAAGATGAAGGAGAAGTACAGAACGCTGAAGTGAA
 |||
 V 5' ATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGATACGTTCTCTATGGAGGATGGCATAGGTGATGAAGATGAAGGAGAAGTACAGAACGCTGAAGTGAA
 |||

V 5' ATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGATACGTTCTCTATGGAGGATGGCATAGGTGATGAAGATGAAGGAGAAGTACAGAACGCTGAAGTGAA
 |||
 restored V 5' ATTGCGCTCTTTCCCGACGAGAGTAAATGGCGAGGATACGTTCTCTATGGAGGATGGCATAGGTGATGAAGATGAAGGAGAAGTACAGAACGCTGAAGTGAA
 |||

XV 5' TGGAGAAGGGTAAATTTTTAATTTGGGATGTTTTACTTGAAGATTCITTAGTGTAGGAACATCAACATGCTCAATCTCAATCGTTAGCACATCACATTTTTC
 |||
 restored XV 5' TGGAGAAGGGTAAATTTTTAATTTGGGATGTTTTACTTGAAGATTCITTAGTGTAGGAACATCAACATGCTCAATCTCAATCGTTAGCACATCACATTTTTC
 |||

Supplementary figure 1