Part A, interleaved

 1 100

 Raphanus LRh (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 Sinapis LRh (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. nigra LRh (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. carinata LRh (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. rapa LR1-1 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. rapa LR1-2 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. juncea LR1-1 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCCCTCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B. juncea LR1-2 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B napus pol LR1-1 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 B napus pol LR1-2 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

B. oleracea f LR1-1 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

B. oleracea f LR1-2 (1) CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC-TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGC

 101 200

 Raphanus LRh (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 Sinapis LRh (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. nigra LRh (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. carinata LRh (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. rapa LR1-1 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. rapa LR1-2 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. juncea LR1-1 (101) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B. juncea LR1-2 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B napus pol LR1-1 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 B napus pol LR1-2 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

B. oleracea f LR1-1 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

B. oleracea f LR1-2 (100) TCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTC

 201 300

 Raphanus LRh (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 Sinapis LRh (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. nigra LRh (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. carinata LRh (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. rapa LR1-1 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. rapa LR1-2 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. juncea LR1-1 (201) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B. juncea LR1-2 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B napus pol LR1-1 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 B napus pol LR1-2 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

B. oleracea f LR1-1 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

B. oleracea f LR1-2 (200) AACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCA

 301 400

 Raphanus LRh (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 Sinapis LRh (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. nigra LRh (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. carinata LRh (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. rapa LR1-1 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. rapa LR1-2 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. juncea LR1-1 (301) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B. juncea LR1-2 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B napus pol LR1-1 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 B napus pol LR1-2 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

B. oleracea f LR1-1 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

B. oleracea f LR1-2 (300) GGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAA

 401 500

 Raphanus LRh (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATAGCCGGATTAGCAGGAGGAAGGTCTTGAA

 Sinapis LRh (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. nigra LRh (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. carinata LRh (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. rapa LR1-1 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. rapa LR1-2 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. juncea LR1-1 (401) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B. juncea LR1-2 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B napus pol LR1-1 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 B napus pol LR1-2 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

B. oleracea f LR1-1 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

B. oleracea f LR1-2 (400) GCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAA

 501 600

 Raphanus LRh (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 Sinapis LRh (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. nigra LRh (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. carinata LRh (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. rapa LR1-1 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAA-GAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. rapa LR1-2 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. juncea LR1-1 (501) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B. juncea LR1-2 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B napus pol LR1-1 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 B napus pol LR1-2 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

B. oleracea f LR1-1 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

B. oleracea f LR1-2 (500) GAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGAT

 601 700

 Raphanus LRh (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 Sinapis LRh (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. nigra LRh (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. carinata LRh (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. rapa LR1-1 (599) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. rapa LR1-2 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. juncea LR1-1 (601) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B. juncea LR1-2 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B napus pol LR1-1 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 B napus pol LR1-2 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

B. oleracea f LR1-1 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

B. oleracea f LR1-2 (600) AAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGG

 701 800

 Raphanus LRh (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 Sinapis LRh (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. nigra LRh (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. carinata LRh (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. rapa LR1-1 (699) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. rapa LR1-2 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. juncea LR1-1 (701) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B. juncea LR1-2 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B napus pol LR1-1 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 B napus pol LR1-2 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

B. oleracea f LR1-1 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

B. oleracea f LR1-2 (700) TCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAA

 801 900

 Raphanus LRh (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 Sinapis LRh (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. nigra LRh (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. carinata LRh (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. rapa LR1-1 (799) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. rapa LR1-2 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. juncea LR1-1 (801) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B. juncea LR1-2 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B napus pol LR1-1 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 B napus pol LR1-2 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

B. oleracea f LR1-1 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

B. oleracea f LR1-2 (800) CTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGAT

 901 1000

 Raphanus LRh (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 Sinapis LRh (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. nigra LRh (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. carinata LRh (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. rapa LR1-1 (899) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. rapa LR1-2 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. juncea LR1-1 (901) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B. juncea LR1-2 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B napus pol LR1-1 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 B napus pol LR1-2 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

B. oleracea f LR1-1 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

B. oleracea f LR1-2 (900) AAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGG

 1001 1100

 Raphanus LRh (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 Sinapis LRh (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. nigra LRh (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. carinata LRh (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. rapa LR1-1 (999) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. rapa LR1-2 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. juncea LR1-1 (1001) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B. juncea LR1-2 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B napus pol LR1-1 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 B napus pol LR1-2 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

B. oleracea f LR1-1 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

B. oleracea f LR1-2 (1000) TTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCC

 1101 1200

 Raphanus LRh (1100) GCAGAAAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 Sinapis LRh (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. nigra LRh (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. carinata LRh (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. rapa LR1-1 (1099) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. rapa LR1-2 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. juncea LR1-1 (1101) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B. juncea LR1-2 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B napus pol LR1-1 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 B napus pol LR1-2 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

B. oleracea f LR1-1 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

B. oleracea f LR1-2 (1100) GCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCC

 1201 1300

 Raphanus LRh (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 Sinapis LRh (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. nigra LRh (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. carinata LRh (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. rapa LR1-1 (1199) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. rapa LR1-2 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. juncea LR1-1 (1201) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B. juncea LR1-2 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B napus pol LR1-1 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 B napus pol LR1-2 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

B. oleracea f LR1-1 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

B. oleracea f LR1-2 (1200) CTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCT

 1301 1400

 Raphanus LRh (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 Sinapis LRh (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. nigra LRh (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. carinata LRh (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. rapa LR1-1 (1299) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. rapa LR1-2 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. juncea LR1-1 (1301) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B. juncea LR1-2 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B napus pol LR1-1 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 B napus pol LR1-2 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

B. oleracea f LR1-1 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

B. oleracea f LR1-2 (1300) CGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACA

 1401 1500

 Raphanus LRh (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 Sinapis LRh (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. nigra LRh (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. carinata LRh (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. rapa LR1-1 (1399) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. rapa LR1-2 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. juncea LR1-1 (1401) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B. juncea LR1-2 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B napus pol LR1-1 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 B napus pol LR1-2 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

B. oleracea f LR1-1 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

B. oleracea f LR1-2 (1400) AATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAA

 1501 1600

 Raphanus LRh (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 Sinapis LRh (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. nigra LRh (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. carinata LRh (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. rapa LR1-1 (1499) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. rapa LR1-2 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. juncea LR1-1 (1501) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B. juncea LR1-2 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B napus pol LR1-1 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 B napus pol LR1-2 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

B. oleracea f LR1-1 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

B. oleracea f LR1-2 (1500) GGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTG

 1601 1700

 Raphanus LRh (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATA

 Sinapis LRh (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATA

 B. nigra LRh (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATA

 B. carinata LRh (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATA

 B. rapa LR1-1 (1599) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 B. rapa LR1-2 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 B. juncea LR1-1 (1601) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 B. juncea LR1-2 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 B napus pol LR1-1 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 B napus pol LR1-2 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

B. oleracea f LR1-1 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

B. oleracea f LR1-2 (1600) ATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATA

 1701 1800

 Raphanus LRh (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 Sinapis LRh (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. nigra LRh (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. carinata LRh (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. rapa LR1-1 (1699) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. rapa LR1-2 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. juncea LR1-1 (1701) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B. juncea LR1-2 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B napus pol LR1-1 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 B napus pol LR1-2 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

B. oleracea f LR1-1 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

B. oleracea f LR1-2 (1700) CCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAG

 1801 1900

 Raphanus LRh (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 Sinapis LRh (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. nigra LRh (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. carinata LRh (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. rapa LR1-1 (1799) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. rapa LR1-2 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. juncea LR1-1 (1801) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B. juncea LR1-2 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B napus pol LR1-1 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 B napus pol LR1-2 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

B. oleracea f LR1-1 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

B. oleracea f LR1-2 (1800) ATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGC

 1901 2000

 Raphanus LRh (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 Sinapis LRh (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. nigra LRh (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. carinata LRh (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. rapa LR1-1 (1899) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. rapa LR1-2 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. juncea LR1-1 (1901) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B. juncea LR1-2 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B napus pol LR1-1 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 B napus pol LR1-2 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

B. oleracea f LR1-1 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

B. oleracea f LR1-2 (1900) GAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTC

 2001 2100

 Raphanus LRh (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCGTTTTCAAAGCAAAGGTTCCTTCATTG

 Sinapis LRh (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. nigra LRh (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. carinata LRh (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. rapa LR1-1 (1999) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. rapa LR1-2 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. juncea LR1-1 (2001) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B. juncea LR1-2 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B napus pol LR1-1 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 B napus pol LR1-2 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

B. oleracea f LR1-1 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

B. oleracea f LR1-2 (2000) TTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTG

 2101 2200

 Raphanus LRh (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 Sinapis LRh (2100) ACTGCTCCGCTCCCCCCC-AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. nigra LRh (2100) ACTGCTCCGCTCCCCCCC-AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. carinata LRh (2100) ACTGCTCCGCTCCCCCCC-AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. rapa LR1-1 (2099) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. rapa LR1-2 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. juncea LR1-1 (2101) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B. juncea LR1-2 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B napus pol LR1-1 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 B napus pol LR1-2 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

B. oleracea f LR1-1 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

B. oleracea f LR1-2 (2100) ACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAA

 2201 2300

 Raphanus LRh (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA-----ATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCTTCTTCTTATA

 Sinapis LRh (2199) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA-----ATATTTTGAGTTAGATGAACAGAGATCACTCCACAAAGCGGCCTTCTTCTTATA

 B. nigra LRh (2199) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA-----ATATTTTGAGTTAGATGAACAGAGATCACTCCTCTAAGCAGCCTTCTTCTTATA

 B. carinata LRh (2199) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA-----ATATTTTGAGTTAGATGAACAGAGATCACTCCTCTAAGCAGCCTTCTTCTTATA

 B. rapa LR1-1 (2199) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 B. rapa LR1-2 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 B. juncea LR1-1 (2201) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 B. juncea LR1-2 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 B napus pol LR1-1 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 B napus pol LR1-2 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

B. oleracea f LR1-1 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

B. oleracea f LR1-2 (2200) GAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA--TCACTCCTCTAAGCAGCCGTCTTCTTATA

 2301 2400

 Raphanus LRh (2293) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 Sinapis LRh (2294) TACGTATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. nigra LRh (2294) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. carinata LRh (2294) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. rapa LR1-1 (2297) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. rapa LR1-2 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. juncea LR1-1 (2299) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B. juncea LR1-2 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B napus pol LR1-1 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

 B napus pol LR1-2 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

B. oleracea f LR1-1 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

B. oleracea f LR1-2 (2298) TACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCT

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 Raphanus LRh (2393) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 Sinapis LRh (2394) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 B. nigra LRh (2394) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 B. carinata LRh (2394) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 B. rapa LR1-1 (2397) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC-GCCCGGGCTTAGAAAGCTAGCTT

 B. rapa LR1-2 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 B. juncea LR1-1 (2399) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC-GCCCGGGCTTAGAAAGCTAGCTT

 B. juncea LR1-2 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

 B napus pol LR1-1 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC-GCCCGGGCTTAGAAAGCTAGCTT

 B napus pol LR1-2 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

B. oleracea f LR1-1 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC-GCCCGGGCTTAGAAAGCTAGCTT

B. oleracea f LR1-2 (2398) ACTTCCCTTAGTTTTGTTTCAAACTCTTCTATT----TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT-GCTC

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 Raphanus LRh (2488) CGTAGAGCTAAAA

 Sinapis LRh (2489) CGTAGAGCTAAA-

 B. nigra LRh (2489) CGTAGAGCTAAA-

 B. carinata LRh (2489) CGTAGAGCTAAA-

 B. rapa LR1-1 (2496) ACTAA--------

 B. rapa LR1-2 (2493) CGTAGAGC-----

 B. juncea LR1-1 (2498) ACT----------

 B. juncea LR1-2 (2493) CGTAGAGC-----

 B napus pol LR1-1 (2497) ACTA---------

 B napus pol LR1-2 (2493) CGTAGAGC-----

B. oleracea f LR1-1 (2497) ACTA---------

B. oleracea f LR1-2 (2493) CGTAGAGC-----

Part B, fasta format

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCC.AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA.....ATATTTTGAGTTAGATGAACAGAGATCACTCCACAAAGCGGCCTTCTTCTTATATACGTATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGCTAAA.

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCC.AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA.....ATATTTTGAGTTAGATGAACAGAGATCACTCCTCTAAGCAGCCTTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGCTAAA.

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCCTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCGATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCC.AAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACA.....ATATTTTGAGTTAGATGAACAGAGATCACTCCTCTAAGCAGCCTTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGCTAAA.

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCCCTCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA..TCACTCCTCTAAGCAGCCGTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC.GCCCGGGCTTAGAAAGCTAGCTTACT..........

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA..TCACTCCTCTAAGCAGCCGTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGC.....

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA..TCACTCCTCTAAGCAGCCGTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTCTT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGC.....

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA..TCACTCCTCTAAGCAGCCGTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTATTACAGTACAGAGGATTAGTCCCATTTTCGTCACGATCGATCCAC.GCCCGGGCTTAGAAAGCTAGCTTACTA.........

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CTAGGAACAGCTTCTACGACGATAGATAGGGGTCAGCTTTCTTTGGCATCTATGCCCCCTGCCC.TCCAAACAGTATGGGAGCCTTTCAGCTCGTACTGCTCACACTCCTAGATCTTCACGGCACCTCCTCCACCATAGTGTGAGCTGCTCCCAGCGGAGAAAAGCAAGGCCTACTTCGAAATTAGCTTTCAACAACGTCAACAACACCACGAAAAAAGTCAACAATGGTTGCCCACTAATCTGATCATAGGTGAAATCCAATCCCTTCGCTTCGCGCCAGGCTTTGAAACCGTAAGTCAGGCGCCTTCGGCCCTCTCCTTTCAGTCGAGTTGCTAAAGCACCTCTCGGAAGCGAGAAAGCGAGCAGCAAGCTGAAAAAAGGGAAAAGTGGTTTTATAAAGCAAAATAAGCTAAGGGGGCTGGCTAGGAATCGCAAGAATTGAGAAGGGTGGGAAAGACAGGTTCGGAAATGGCCGGATTAGCAGGAGGAAGGTCTTGAAGAGCCTGAAACAAAGAAAGGTGTACATAAAAAAAGAGGCTGGTTATGGCCTTTACTTGATAGGACTCCTTTCCCATCTATCTTGACCGGGAAGAGGGGATAAAAAACCTTGCTAACGCCCTGCCCACCCTTCTGGATCCCTCATATTTATGATTCCAGGCTTCCCGGACTCGTAATAGACGGCTAAGAACAAGAAGAGGGTCAGTAGTCTCTGCCGTTGCAGGTCCTTCTCCTTCCGCTGAGACGGCCTTCTTTTTTTGTTTGTTCACCGCGGCACGAAATCATGAAGAAGCTGGAATAACTCAGAAAGAGAGTGGCGCCTAGCCGTTGAGAGCGTCTATTATCTTTGTAGAGGAACAGTACGATCTTGGACTGGCCCCCTTCGCATGACCTAGAAAGATAAAGAAGTCCATGCTACTATAAGGCCTCTAAACTCCTCCCTCAGGACACTATTGCGTTGCCCATGGGGACGGGGTAGCCCCGACTTCCATAGGTCCTTGGTTCGACCTCCTAATGAGAATTGAGGTCCTTGCGCGGGCGTCTCATCCCTAAGACTTGCTTGCTCTGTATGGAGTGCCCTGTGGTTCCTCGAGTGCCAGCCGCAGAGAGGAATGCCATCAACTAGGGCGCTATTGGCCACTAACCACTCGCTCGCCAGCCGCTCGGGCTCCGCGTTTCAAGTTCGTTATCCTAACCGTCCCCTCTGCTCCACCGGGTGCCTGGCCCCTTCTTCTATCTTATCTACTGCCTTGCTCCTCGGCTCCCTACAGCTCCAGCCGCTCGCTGTAATAGCTTGCTTCTCGGGTGGCTCGCACCCCCGGGTGGTGCGGCTGAGCCAGAGTGGGCTCAACAGTCGGCCTATGTTTCCGGGCGCACGCGTAAAGGCATGATTAGTTCCACAAATCTCACTGCACTGACCATAGTAAACTCCTTCTCGTTGTACCAAAATAGAGATTTGATTTAAACGACCAGGTACAGCATCACATTTGACACCTGAGGAAGGTACAGCCCAACTATGAGGTACATCAGCAGATGTTACAATAATACGTAGATGAGTTTTGGCTGGTACAACCACTCTATTGTCCACTTCTAATAAACGTGATTGACCCAATTCTAGATCTTCTTCTGGAATCATATAACTGTCAAAAGTGAGTGACTGCTCATCGGAACTGTTATAGTCAGAATACTCATAAGTCCAATACCATTGATGTCCAATAGCTTTGATAGTAATGGCTGGATCTACTACTACCTCGTCCATTGAGTATAAGAGAGCAAATGATGGTATAGCAATGAACATCGAGATGAGACTAGGAAAGATGGTCCGAAGAATCTCGATAGTAGTTCCATGAACAATCCTTTGCGGGATTGCATTTTCTTTATAGTGGAAATGCCATAAAGCGCGAACCAAGATCCATAATACGAAAACCAAAATCAGAATGAGGAAGAAAAAGATATCGTGATGTAAGTCTATTATTCCTTGCATTATAGGTGTAGCTGCGTCTTGAGATCCTAATTGCCATGGTTCCGCTGCATCACAAGGAGAAATTGTGAGGAATAACCATTTTAGAACAATCATTTTCAAAGCAAAGGTTCCTTCATTGACTGCTCCGCTCCCCCCCCAAACAAAGAGAGACTGATTCTGACTCTCCCAATTAAGGAAGACGGAAATGACTGGTGCCGGTTGGTCCAACCAAGAAAAAAGAGATGGGAATTTTGGGCGTAAGATTCTTCTTCTTCTTACATTACAATATTTTGAGTTAGATGAACAGA..TCACTCCTCTAAGCAGCCGTCTTCTTATATACATATTATTCTGTCATGGGTTGTTAGCTGTGTTCTATCGTAGCTATCTCTGTTCAACACTTGGAGGGAGCGAGCAACGGCCTGCGAGCGATCGTAGCTACTTCCCTTAGTTTTGTTTCAAACTCTTCTATT....TTTTCCTTTTTTCTTACTTTTCCATCTATATAAAGAGAAAGTTTTGGATTCCTGATGT.GCTCCGTAGAGC.....