Additional file 3:

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Col-0           ATGGGCCAAAATTTTCACGCTTTTATGTTCCCATGGTTCGCTTTTGGTCATATGACTCCA 60
Est             ATGGGCCAAAATTTTCACGCTTTTATGTTCCCATGGTTCGCTTTTGGTCATATGACTCCA 60
Kond            ATGGGCCAAAATTTTCACGCTTTTATGTTCCCATGGTTCGCTTTTGGTCATATGACTCCA 60
Tsu-1           ATGGGCCAAAATTTTCACGCTTTTATGTTCCCATGGTTCGCTTTTGGTCATATGACTCCA 60
An-1            ATGGGCCAAACGTTTCACGCTTTTATGTTCCCATGGTTTGCTTTTGGTCATATGACTCCA 60
Ler             ATGGGCCAAACGTTTCACGCTTTTATGTTCCCATGGTTTGCTTTTGGTCATATGACTCCA 60
Est-1*          ATGGGCCAAAATTTTCACGCTTTTATGTTCCCATGGTTTGCTTTTGGTCATATGACTCCA 60
Est-1           ATGGGCCAAACGTTTCACGCTTTTATGTTCCCATGGTTCGCTTTTGGTCATATGACTCCA 60
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Col-0           TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Est             TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Kond            TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Tsu-1           TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
An-1            TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Ler             TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Est-1*          TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
Est-1           TACTTGCATCTAGCCAACAAGCTAGCTGCTAAAGGTCATAGGGTTACTTTCTTGCTGCCT 120
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Col-0           AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Est             AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Kond            AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Tsu-1           AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
An-1            AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Ler             AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Est-1*          AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
Est-1           AAGAAAGCTCAAAAACAGTTGGAACATCACAATCTGTTTCCAGACAGGATCATCTTTCAT 180
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Col-0           TCTCTTACTATTCCCCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Est             TCTCTTACTATTCCCCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Kond            TCTCTTACTATTCCCCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Tsu-1           TCTCTTACTATTCCCCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
An-1            CCTCTTACTATTCCTCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Ler             CCTCTTACTATTCCTCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Est-1*          CCTCTTACTATTCCTCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
Est-1           CCTCTTACTATTCCTCATGTTGATGGCCTACCTGCTGGCGCGGAGACCGCCTCGGACATC 240
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Col-0           CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Est             CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Kond            CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Tsu-1           CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
An-1            CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Ler             CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Est-1*          CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
Est-1           CCCATCTCGTTGGGGAAGTTTCTTACCGCAGCCATGGATCTCACTCGCGATCAGGTCGAA 300
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Col-0           GCCGCGGTTCGTGCTTTGAGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Est             GCCGCGGTTCGTGCTTTGAGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Kond            GCCGCGGTTCGTGCTTTGAGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Tsu-1           GCCGCGGTTCGTGCTTTGAGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
An-1            GCCGCGGTTCGTGCTTTGCGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Ler             GCCGCGGTTCGTGCTTTGCGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Est-1*          GCCGCGGTTCGTGCTTTGCGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
Est-1           GCCGCGGTTCGTGCTTTGCGACCAGACCTGATCTTTTTCGATACTGCTTATTGGGTTCCG 360
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Col-0           GAAATGGCGAAAGAACACAGAGTCAAGAGTGTGATATACTTTGTGATATCAGCTAACTCC 420
Est             GAAATGGCGAAAGAACACAGAGTCAAGAGTGTGATATACTTTGTGATATCAGCTAACTCC 420
Kond            GAAATGGCGAAAGAACACAGAGTCAAGAGTGTGATATACTTTGTGATATCAGCTAACTCC 420
Tsu-1           GAAATGGCGAAAGAACACAGAGTCAAGAGTGTGATATACTTTGTGATATCAGCTAACTCC 420
An-1            GAAATGGCGAAAGAACATAGAGTCAAGAGTGTGATGTACTTCGTGATATCAGCTAACTCC 420
Ler             GAAATGGCGAAAGAACATAGAGTCAAGAGTGTGATGTACTTCGTGATATCAGCTAACTCC 420
Est-1*          GAAATGGCGAAAGAACATAGAGTCAAGAGTGTGATGTACTTCGTGATATCAGCTAACTCC 420
Est-1           GAAATGGCGAAAGAACATAGAGTCAAGAGTGTGATGTACTTCGTGATATCAGCTAACTCC 420
                ********** ********** ***** **********

Col-0           ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Est             ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Kond            ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Tsu-1           ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
An-1            ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Ler             ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Est-1*          ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
Est-1           ATAGCTCATGAACTTGTACCAGGTGGTGAATTAGGAGTTCCTCCACCTGGCTATCCTTCG 480
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Col-0           TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
Est             TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
Kond            TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACATTTTCCATCTTCTAC 540
Tsu-1           TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
An-1            TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
Ler             TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
Est-1*          TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATGTTCTAC 540
Est-1           TCAAAAGTGTTGTACCGTGGACACGATGCTCACGCTTTGTTGACTTTTTCCATCTTCTAC 540
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Col-0           GAGAGGCTTCATTACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCAATTAGG 600
Est             GAGAGGCTTCATTACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCAATTAGG 600
Kond            GAGAGGCTTCATTACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCAATTAGG 600
Tsu-1           GAGAGGCTTCATTACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCAATTAGG 600
An-1            GAGAGGCTTCATCACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCTATTAGG 600
Ler             GAGAGGCTTCATCACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCTATTAGG 600
Est-1*          GAGAGGCTTCATCACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCTATTAGG 600
Est-1           GAGAGGCTTCATCACCGGATAACAACAGGTCTAAAGAATTGTGATTTTATCTCTATTAGG 600
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Col-0           ACTTGTAAAGAAATCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Est             ACTTGTAAAGAAATCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Kond            ACTTGTAAAGAAATCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Tsu-1           ACTTGTAAAGAAATCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
An-1            ACTTGTAAAGAAGTCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Ler             ACTTGTAAAGAAGTCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Est-1*          ACTTGTAAAGAAGTCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
Est-1           ACTTGTAAAGAAGTCGAAGGTAAATTCTGCGACTATATAGAGCGTCAATACCAGAGGAAG 660
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Col-0           GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGATAACAGTAGACCACTCGAAGATCGA 720
Est             GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGATAACAGTAGACCACTCGAAGATCGA 720
Kond            GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGATAACAGTAGACCACTCGAAGATCGA 720
Tsu-1           GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGATAACAGTAGACCACTCGAAGATCGA 720
An-1            GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGACAATAGTAGACCACTCGAAGATCGA 720
Ler             GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGACAATAGTAGACCACTCGAAGATCGA 720
Est-1*          GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGACAATAGTAGACCACTCGAAGATCGA 720
Est-1           GTTCTTTTGACAGGTCCAATGCTTCCAGAGCCAGACAATAGTAGACCACTCGAAGATCGA 720
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Col-0           TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Est             TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Kond            TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Tsu-1           TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
An-1            TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Ler             TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Est-1*          TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
Est-1           TGGAATCACTGGCTGAATCAGTTCAAACCCGGCTCGGTAATATATTGTGCATTGGGAAGT 780
                ************************************************************

Col-0           CAAATCACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTCACTGGT 840
Est             CAAATCACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTCACTGGT 840
Kond            CAAATCACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTCACTGGT 840
Tsu-1           CAAATCACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTCACTGGT 840
An-1            CAAATAACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTTACTAGT 840
Ler             CAAATAACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTTACTAGT 840
Est-1*          CAAATAACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTTACTAGT 840
Est-1           CAAATAACTCTAGAGAAGGATCAATTCCAAGAACTCTGTTTAGGAATGGAGCTTACTAGT 840
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Col-0           TTACCGTTTCTCGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATCCAAGAAGCGTTG 900
Est             TTACCGTTTCTCGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATCCAAGAAGCGTTG 900
Kond            TTACCGTTTCTCGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATCCAAGAAGCGTTG 900
Tsu-1           TTACCGTTTCTCGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATCCAAGAAGCGTTG 900
An-1            TTACCGTTTCTTGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATTCAAGAAGCGTTG 900
Ler             TTACCGTTTCTTGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATTCAAGAAGCGTTG 900
Est-1*          TTACCGTTTCTTGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATTCAAGAAGCGTTG 900
Est-1           TTACCGTTTCTTGTAGCGGTAAAACCACCAAAAGGCGCAAAGACGATTCAAGAAGCGTTG 900
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Col-0           CCAGAAGGGTTTGAGGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
Est             CCAGAAGGGTTTGAGGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
Kond            CCAGAAGGGTTTGAGGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
Tsu-1           CCAGAAGGGTTTGAGGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
An-1            CCAGAAGGGTTTGAAGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
Ler             CCAGAAGGGTTTGAAGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
Est-1*          CCAGAAGGGTTTGAAGAGAGGGTGAAGAATCATGGAGTGGTTTGGGGAGAATGGGTGCAG 960
Est-1           CCAGAAGGGTTTGAGGAGAGGGTGAAGAATCATGGAGTAGTTTGGGGAGAATGGGTGCAG 960
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Col-0           CAACCATTGATATTGGCTCATCCATCAGTAGGCTGCTTTGTGACCCATTGTGGGTTTGGA 1020
Est             CAACCATTGATATTGGCTCATCCATCAGTAGGCTGCTTTGTGACCCATTGTGGGTTTGGA 1020
Kond            CAACCATTGATATTGGCTCATCCATCAGTAGGCTGCTTTGTGACCCATTGTGGGTTTGGA 1020
Tsu-1           CAACCATTGATATTGGCTCATCCATCAGTAGGCTGCTTTATGACCCATTGTGGGTTTGGA 1020
An-1            CAACCATTGATATTGGCTCATCCATCGGTAGGATGCTTTGTGAATCATTGTGGGTTTGGA 1020
Ler             CAACCATTGATATTGGCTCATCCATCGGTAGGATGCTTTGTGAATCATTGTGGGTTTGGA 1020
Est-1*          CAACCATTGATATTGGCTCATCCATCGGTAGGATGCTTTGTGAATCATTGTGGGTTTGGA 1020
Est-1           CAACCATTGATATTGGCTCATCCATCGGTAGGCTGCTTTGTGAATCATTGTGGGTTTGGA 1020
                ************************** ***** ****** ***  ***************

Col-0           TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGTGTGAT 1080
Est             TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGTGTGAT 1080
Kond            TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTACTTCCATATTTGAGTGAT 1080
Tsu-1           TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGAGTGAT 1080
An-1            TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGAGTGAT 1080
Ler             TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGAGTGAT 1080
Est-1*          TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGTGTGAT 1080
Est-1           TCAATGTGGGAGTCTCTAGTGAGTGATTGTCAAATAGTCTTGCTTCCATATTTGAGTGAT 1080
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Col-0           CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Est             CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Kond            CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Tsu-1           CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
An-1            CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Ler             CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Est-1*          CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
Est-1           CAAATTCTCAACACTAGATTGATGAGTGAGGAACTCGAGGTTTCGGTGGAAGTGAAAAGA 1140
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Col-0           GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Est             GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Kond            GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Tsu-1           GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
An-1            GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Ler             GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Est-1*          GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
Est-1           GAAGAAACAGGATGGTTCTCGAAAGAGAGCTTAAGTGTTGCGATCACCTCGGTGATGGAC 1200
                ************************************************************

Col-0           AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Est             AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Kond            AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Tsu-1           AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
An-1            AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Ler             AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Est-1*          AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
Est-1           AAAGATAGTGAGTTAGGGAATCTGGTGAGGAGGAACCACGCTAAATTAAAGGAGGTTTTG 1260
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Col-0           GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Est             GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Kond            GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Tsu-1           GTTAGTCCTGAATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
An-1            GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Ler             GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Est-1*          GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
Est-1           GTTAGTCCTGGATTATTAACCGGTTACACCGATGAATTTGTTGAAACTTTGCAGAATATA 1320
                ********** **************************************************

Col-0           GTCAACGATACAAATCTTGAATGA 1344
Est             GTCAACGATACAAATCTTGAATGA 1344
Kond            GTCAACGATACAAATCTTGAATGA 1344
Tsu-1           GTCAACGATACAAATCTTGAATGA 1344
An-1            GTCAACGATACAAATCTTGAATGA 1344
Ler             GTCAACGATACAAATCTTGAATGA 1344
Est-1*          GTCAACGATACAAATCTTGAATGA 1344
Est-1           GTCAACGATACAAATCTTGAATGA 1344
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Figure S3. Multiple Sequence Alignment of coding sequences of *AtUDP-glycosyltransferase* gene produced by CLUSTALW. The following sequences were taken from the 1001 Genomes Project database (www.1001genomes.org): Kond, L*er*, Est, Col-0, Est-1, Tsu-1, An-1 (Kas-2 sequence was not available in the database). The selected sequences originate from accessions, which were used in the initial screening of natural variation in scopolin and scopoletin accumulation. The Est-1* sequence was obtained after re-sequencing of Est-1 accession from our laboratory.