```
                                                                                37
SUB1A-1_IR40931-26_Upstream      AGCTTATGGAGTCTACTTTCAGATGGTTTTGGTCCCCAGTCAAAATTCTTACCAAACTGC
UPSTREAM_ONIVA01G39120           AGCTTATGGAGTCTACTTTCAGATGGTTTTGGTCCCCAGTCAAAATTCTTACCAAACTGC
SUB1A-2_93-11_Upstream           AGCTTATGGAGTCTACTTTCAGATGGTTTTGGTCCCTAGTCAAAATTCTTACCAAACTGC
SUB1A-2_Teqing_Upstream          AGCTTATGGAGTCTACTTTCAGATGGTTTTGGTCCCTAGTCAAAATTCTTACCAAACTGC
                                 ************************************ **********************

                                                   85
SUB1A-1_IR40931-26_Upstream      TGGGAATCTGCAAAACAAGCCATGTATCTTATCCAGTCCGAATCTGATTTGGGTTTTGGG
UPSTREAM_ONIVA01G39120           TGGGAATCTGCAAAACAAGCCATGTATCTTATCCAGTCCGAATCTGATTTGGGTTTTGGG
SUB1A-2_93-11_Upstream           TGGGAATCTGCAAAACAAGCCACGTATCTTATCCAGTCCGAATCTGATTTGGGTTTTGGG
SUB1A-2_Teqing_Upstream          TGGGAATCTGCAAAACAAGCCACGTATCTTATCCAGTCCGAATCTGATTTGGGTTTTGGG
                                 ********************** ************************************

                                                                   156
SUB1A-1_IR40931-26_Upstream      CTTTGTAATTGTGTTGTGGGCTTAGCCCAAGTGGTTGTGCGCACTAGGGCAACCCTAGGA
UPSTREAM_ONIVA01G39120           CTTTGTAATTGTGTTGTGGGCTTAGCCCAAGTGGTTGTGCGCACTAGGGCAACCCTAGGA
SUB1A-2_93-11_Upstream           CTTTGTAATTGTGTTGTGGGCTTAGCCCAAGGGGTTGTGCGCACTAGGGCAACCCTAGGA
SUB1A-2_Teqing_Upstream          CTTTGTAATTGTGTTGTGGGCTTAGCCCAAGGGGTTGTGCGCACTAGGGCAACCCTAGGA
                                 ****************************** ***************************

                                                                                 230
SUB1A-1_IR40931-26_Upstream      CGTCCTTAATCATATTTATTCAGTAGCCGTCATCGTTTAGAGTTGGGTTTTGCTTAGAAT
UPSTREAM_ONIVA01G39120           CGTCCTTAATCATATTTATTCAGTAGCCGTCATCGTTTAGAGTTGGGTTTTGCTTAGAAT
SUB1A-2_93-11_Upstream           CGTCCTTAATCATATTTATTCAGTAGCCGTCATCGTTTAGAGTCGGGTTTTGCTTAGAAT
SUB1A-2_Teqing_Upstream          CGTCCTTAATCATATTTATTCAGTAGCCGTCATCGTTTAGAGTCGGGTTTTGCTTAGAAT
                                 ****************************************** ****************

SUB1A-1_IR40931-26_Upstream      ATTCTGTCAAGAACAGTTTTGCCGCTAGATCGGTTTGTGGAACCCAAAATTAGAGTGCTT
UPSTREAM_ONIVA01G39120           ATTCTGTCAAGAACAGTTTTGCCGCTAGATCGGTTTGTGGAACCCAAAATTAGAGTGCTT
SUB1A-2_93-11_Upstream           ATTCTGTCAAGAACAGTTTTGCCGCTAGATCGGTTTGTGGAACCCAAAATTAGAGTGCTT
SUB1A-2_Teqing_Upstream          ATTCTGTCAAGAACAGTTTTGCCGCTAGATCGGTTTGTGGAACCCAAAATTAGAGTGCTT
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      AATCATTCATATGCAATTGTGTTGCAATCTATCTTGTTGTTGCTTGTGTTCTTCGATTCA
UPSTREAM_ONIVA01G39120           AATCATTCATATGCAATTGTGTTGCAATCTATCTTGTTGTTGCTTGTGTTCTTCGATTCA
SUB1A-2_93-11_Upstream           AATCATTCATATGCAATTGTGTTGCAATCTATCTTGTTGTTGCTTGTGTTCTTCGATTCA
SUB1A-2_Teqing_Upstream          AATCATTCATATGCAATTGTGTTGCAATCTATCTTGTTGTTGCTTGTGTTCTTCGATTCA
                                 ************************************************************

                                                   397                   414
SUB1A-1_IR40931-26_Upstream      CATGCAGGGATTAGCCTTCTCGGCGAGGTCAACCGGGTTTCAGCACGGTTGATAACCGGA
UPSTREAM_ONIVA01G39120           CATGCAGGGATTAGCCTTCTCGGCGAGGTCAACCGGGTTTCAGCACGGTTGATAACCGGA
SUB1A-2_93-11_Upstream           CATGCAGGGATTAGCCTTCTCGGCAAGGTCAACCGGGTTTCGGCACGGTTGATAACCGGA
SUB1A-2_Teqing_Upstream          CATGCAGGGATTAGCCTTCTCGGCAAGGTCAACCGGGTTTCGGCACGGTTGATAACCGGA
                                 ************************ **************** ******************

SUB1A-1_IR40931-26_Upstream      GGAGACGTGGTGCTACGATTGCGGGGCTCAGTTGCGTGTTCGTTCAGAAGCCGGATCGAG
UPSTREAM_ONIVA01G39120           GGAGACGTGGTGCTACGATTGCGGGGCTCAGTTGCGTGTTCGTTCAGAAGCCGGATCGAG
SUB1A-2_93-11_Upstream           GGAGACGTGGTGCTACGATTGCGGGGCTCAGTTGCGTGTTCGTTCAGAAGCCGGATCGAG
SUB1A-2_Teqing_Upstream          GGAGACGTGGTGCTACGATTGCGGGGCTCAGTTGCGTGTTCGTTCAGAAGCCGGATCGAG
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      TTGTGTCGCGACTCCGCCCAAATCGACTATTTATCAATACCTATCGGAAGATCGGGACCT
UPSTREAM_ONIVA01G39120           TTGTGTCGCGACTCCGCCCAAATCGACTATTTATCAATACCTATCGGAAGATCGGGACCT
SUB1A-2_93-11_Upstream           TTGTGTCGCGACTCCGCCCAAATCGACTATTTATCAATACCTATCGGAAGATCGGGACCT
SUB1A-2_Teqing_Upstream          TTGTGTCGCGACTCCGCCCAAATCGACTATTTATCAATACCTATCGGAAGATCGGGACCT
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      AACATCCCCCATCAAATAGCTATATCATTCTCAAACATTTATAGATGGATATTTAAAACC
UPSTREAM_ONIVA01G39120           AACATCCCCCATCAAATAGCTATATCATTCTCAAACATTTATAGATGGATATTTAAAACC
SUB1A-2_93-11_Upstream           AACATCCCCCATCAAATAGCTATATCATTCTCAAACATTTATAGATGGATATTTAAAACC
SUB1A-2_Teqing_Upstream          AACATCCCCCATCAAATAGCTATATCATTCTCAAACATTTATAGATGGATATTTAAAACC
                                 ************************************************************

                                 623
SUB1A-1_IR40931-26_Upstream      CTGCTATTTCTGCAACCGTTGCGAGCTAGCTGTCTGAACCTAAAGGCTTACGAAATGTAT
UPSTREAM_ONIVA01G39120           CTGCTATTTCTGCAACCGTTGCGAGCTAGCTGTCTGAACCTAAAGGCTTACGAAATGTAT
SUB1A-2_93-11_Upstream           CTGCTATTTCTGCAACCGTTGCGAGCTAGCTGTCTGAACCTAAAGGCTTACGAAATGTAT
SUB1A-2_Teqing_Upstream          CTACTATTTCTGCAACCGTTGCGAGCTAGCTGTCTGAACCTAAAGGCTTACGAAATGTAT
                                 ** *********************************************************

                                                   699
SUB1A-1_IR40931-26_Upstream      CATTTCCACGCTGGGTTATGCAGCCCTATGTGAACTAGGGAATACACCCATGTGAGAACC
UPSTREAM_ONIVA01G39120           CATTTCCACGCTGGGTTATGCAGCCCTATGTGAACTAGGGAATACACCCATGTGAGAACC
SUB1A-2_93-11_Upstream           CATTTCCACGCTGGGTCATGCAGCCCTATGTGAACTAGGGAATACACCCATGTGAGAACC
SUB1A-2_Teqing_Upstream          CATTTCCACGCTGGGTCATGCAGCCCTATGTGAACTAGGGAATACACCCATGTGAGAACC
                                 *************** ******************************************

SUB1A-1_IR40931-26_Upstream      AAGCATACCACTAAGGCCATAGGTATAGATGGCCGAATCGGCTGCAAGGCCCGACCTATC
UPSTREAM_ONIVA01G39120           AAGCATACCACTAAGGCCATAGGTATAGATGGCCGAATCGGCTGCAAGGCCCGACCTATC
SUB1A-2_93-11_Upstream           AAGCATACCACTAAGGCCATAGGTATAGATGGCCGAATCGGCTGCAAGGCCCGACCTATC
SUB1A-2_Teqing_Upstream          AAGCATACCACTAAGGCCATAGGTATAGATGGCCGAATCGGCTGCAAGGCCCGACCTATC
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      GGGCACGACCAAGCCCGGACCTGAGACCAGTCGGGTTACACGACCCAACGTACACGTTGG
UPSTREAM_ONIVA01G39120           GGGCACGACCAAGCCCGGACCTGAGACCAGTCGGGTTACACGACCCAACGTACACGTTGG
SUB1A-2_93-11_Upstream           GGGCACGACCAAGCCCGGACCTGAGACCAGTCGGGTTACACGACCCAACGTACACGTTGG
SUB1A-2_Teqing_Upstream          GGGCACGACCAAGCCCGGACCTGAGACCAGTCGGGTTACACGACCCAACGTACACGTTGG
                                 ************************************************************

                                                                          906
SUB1A-1_IR40931-26_Upstream      GCCGGGCTGTGCCCGCCCACATGTTGCACCAACGGCCGAAGCACAATTCAATAAGACTCG
UPSTREAM_ONIVA01G39120           GCCGGGCTGTGCCCGCCCACATGTTGCACCAACGGCCGAAGCACAATTCAATAAGACTCG
SUB1A-2_93-11_Upstream           GCCGGGCTGTGCCCGCCCACATGTTGCACCAACGGCCCAAGCACAATTCAATAAGACTCG
SUB1A-2_Teqing_Upstream          GCCGGGCTGTGCCCGCCCACATGTTGCACCAACGGCCCAAGCACAATTCAATAAGACTCG
                                 ************************************* **********************

SUB1A-1_IR40931-26_Upstream      GGCTGTGCCTGGCTGGCCCAAAGGCACGAAAGCCCACCGTGCTCCTCCATGGAAAAAAGT
UPSTREAM_ONIVA01G39120           GGCTGTGCCTGGCTGGCCCAAAGGCACGAAAGCCCACCGTGCTCCTCCATGGAAAAAAGT
SUB1A-2_93-11_Upstream           GGCTGTGCCTGGCTGGCCCAAAGGCACGAAAGCCCACCGTGCTCCTCCATGGAAAAAAGT
SUB1A-2_Teqing_Upstream          GGCTGTGCCTGGCTGGCCCAAAGGCACGAAAGCCCACCGTGCTCCTCCATGGAAAAAAGT
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      CTATTTGCCTCTCGTATCCGGGCCATCTCTTATATGACTGAAATAAGTCTACTTTGCATT
UPSTREAM_ONIVA01G39120           CTATTTGCCTCTCGTATCCGGGCCATCTCTTATATGACTGAAATAAGTCTACTTTGCATT
SUB1A-2_93-11_Upstream           CTATTTGCCTCTCGTATCCGGGCCATCTCTTATATGACTGAAATAAGTCTACTTTGCATT
SUB1A-2_Teqing_Upstream          CTATTTGCCTCTCGTATCCGGGCCATCTCTTATATGACTGAAATAAGTCTACTTTGCATT
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      CCTCATCTCTTTTGGTCGTGTCTTATACGGCTGTAATAAGTCTATTTTGGCTCCCACATC
UPSTREAM_ONIVA01G39120           CCTCATCTCTTTTGGTCGTGTCTTATACGGCTGTAATAAGTCTATTTTGGCTCCCACATC
SUB1A-2_93-11_Upstream           CCTCATCTCTTTTGGTCGTGTCTTATACGGCTGTAATAAGTCTATTTTGGCTCCCACATC
SUB1A-2_Teqing_Upstream          CCTCATCTCTTTTGGTCGTGTCTTATACGGCTGTAATAAGTCTATTTTGGCTCCCACATC
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      TATTTTGCCTCCATTATTGTTGGAGAGGGCCGCCCCATCGTGCTAAGGCGGATGCCCAGG
UPSTREAM_ONIVA01G39120           TATTTTGCCTCCATTATTGTTGGAGAGGGCCGCCCCATCGTGCTAAGGCGGATGCCCAGG
SUB1A-2_93-11_Upstream           TATTTTGCCTCCATTATTGTTGGAGAGGGCCGCCCCATCGTGCTAAGGCGGATGCCCAGG
SUB1A-2_Teqing_Upstream          TATTTTGCCTCCATTATTGTTGGAGAGGGCCGCCCCATCGTGCTAAGGCGGATGCCCAGG
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      CATGGCCCAAAATTCGGACCGAGGCAGCATGAGCCCGATACCAGATAGACCGAGCCATGT
UPSTREAM_ONIVA01G39120           CATGGCCCAAAATTCGGACCGAGGCAGCATGAGCCCGATACCAGATAGACCGAGCCATGT
SUB1A-2_93-11_Upstream           CATGGCCCAAAATTCGGACCGAGGCAGCATGAGCCCGATACCAGATAGACCGAGCCATGT
SUB1A-2_Teqing_Upstream          CATGGCCCAAAATTCGGACCGAGGCAGCATGAGCCCGATACCAGATAGACCGAGCCATGT
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      TTGGGTTAGACCAAAACCCCGTGCCATGGGTTGGACCGTCGGGCCCCGGGCCTCTCGGCC
UPSTREAM_ONIVA01G39120           TTGGGTTAGACCAAAACCCCGTGCCATGGGTTGGACCGTCGGGCCCCGGGCCTCTCGGCC
SUB1A-2_93-11_Upstream           TTGGGTTAGACCAAAACCCCGTGCCATGGGTTGGACCGTCGGGCCCCGGGCCTCTCGGCC
SUB1A-2_Teqing_Upstream          TTGGGTTAGACCAAAACCCCGTGCCATGGGTTGGACCGTCGGGCCCCGGGCCTCTCGGCC
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      AACTATAGACATAGGCACTGCAATGTTGCTTGAGAAAAAAAAAATTATAGTCACACTAGA
UPSTREAM_ONIVA01G39120           AACTATAGACATAGGCACTGCAATGTTGCTTGAGAAAAAAAAAATTATAGTCACACTAGA
SUB1A-2_93-11_Upstream           AACTATAGACATAGGCACTGCAATGTTGCTTGAGAAAAAAAAAATTATAGTCACACTAGA
SUB1A-2_Teqing_Upstream          AACTATAGACATAGGCACTGCAATGTTGCTTGAGAAAAAAAAAATTATAGTCACACTAGA
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      TTGGATGTCTATTTGTTAATACTGTTAGGACAAGCACGACTTGTTCCCGCTACATCCCAC
UPSTREAM_ONIVA01G39120           TTGGATGTCTATTTGTTAATACTGTTAGGACAAGCACGACTTGTTCCCGCTACATCCCAC
SUB1A-2_93-11_Upstream           TTGGATGTCTATTTGTTAATACTGTTAGGACAAGCACGACTTGTTCCCGCTACATCCCAC
SUB1A-2_Teqing_Upstream          TTGGATGTCTATTTGTTAATACTGTTAGGACAAGCACGACTTGTTCCCGCTACATCCCAC
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      TCCGATATACAAAGTGTATTTCGACCGCCCCTTGGCCTTCCAGCCTATATATATCAACAA
UPSTREAM_ONIVA01G39120           TCCGATATACAAAGTGTATTTCGACCGCCCCTTGGCCTTCCAGCCTATATATATCAACAA
SUB1A-2_93-11_Upstream           TCCGATATACAAAGTGTATTTCGACCGCCCCTTGGCCTTCCAGCCTATATATATCAACAA
SUB1A-2_Teqing_Upstream          TCCGATATACAAAGTGTATTTCGACCGCCCCTTGGCCTTCCAGCCTATATATATCAACAA
                                 ************************************************************

SUB1A-1_IR40931-26_Upstream      CTTCTACCC
UPSTREAM_ONIVA01G39120           CTTCTACCC
SUB1A-2_93-11_Upstream           CTTCTACCC
SUB1A-2_Teqing_Upstream          CTTCTACCC
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