-------------------------------10--------20--------30---

----------------------....|....|....|....|....|....|....

aV1J\_T17\_100710\_2-----TGT-------------------------------

aV1m\_T14\_080912\_2-----TCCGCTTACG------------------------

aV1m\_T21\_072012\_2-----CCCGTAT---------------------------

aV1J\_V14\_101310\_2-----CCCCCATATACT----------------------

aV1m\_T17\_071212\_2-----CCGGACT---------------------------

aV1m\_T13\_072610\_1-----CCGCGCT---------------------------

aV1J\_V21\_101310\_1-----CA--------------------------------

aV1J\_V09\_110210\_1-----TCC-------------------------------

aV1J\_V19\_110210\_1-----CCGG------------------------------

aV1J\_V07\_091410\_1-----TCCCCT----------------------------

aV1J\_V05\_091010\_1-----CCGGTA----------------------------

aV1m\_T08\_060512\_1-----TCGGGA----------------------------

aV1m\_T13\_060512\_1-----CCAAAAAAAT------------------------

aV1J\_V08\_102810\_1-----GCGCTGTGG-------------------------

aV1J\_V20\_110210\_1-----CTCCTGCGAT------------------------

aV1J\_V02\_110210\_1-----A---------------------------------

aV1m\_T02\_060512\_1-----CCGCCGCAT-------------------------

aV1B\_A\_419.40\_1-------CAACA-----------------------------

aV1m\_T14\_060512\_1-----ACCTTACT--------------------------

aV1J\_V24\_101310\_1-----CGGGGCCACTACGGAACTGGTACT----------

aV1J\_V05\_102810\_1-----CACGGG----------------------------

aV1J\_V05\_101310\_1-----CCGGGA----------------------------

aV1.4J\_V07\_090110\_1---GCCGGGTACT------------------------

aV1.4J\_V08\_101310\_1---GCCGGGTACTGGAATA------------------

aV1.4J\_V17\_090110\_1---GCCGGGTACTGGAATAACT---------------

aV1.3J\_V01\_091410\_2---CCTATTGGGGGTTACAGC----------------

aV1.2J\_V15\_091010\_2---CCACGGG---------------------------

aV1.2J\_V23\_090110\_1---CCACGG----------------------------

aV1.2J\_V18\_110210\_1---CACGG-----------------------------

aV1.1J\_V18\_101310\_1---CGGGGCCACTACGGAACTGGTACTGG--------

aV1.1J\_V08\_110210\_1---CGGGGCCACTATGGAACTGGTACT----------

aV1.1J\_V01\_101310\_1---CGGGGCCACTACGGAGATGAGACT----------

aV2.1m\_T22\_071212\_5---TTCGCCGGTAT-----------------------

aV2.1J\_V06\_091410\_1---GAT-------------------------------

aV2.1J\_T43\_100410\_1---CCCC------------------------------

aV2.1B\_A419.3---------TGGCC-----------------------------

aV2.2m\_T13\_080212\_1---TTTGAGAAAGAAT---------------------

aV2.2m\_T04\_071212\_2---CGGACTGGAGGGTTTACA----------------

aV2.2J\_V22\_110210\_1---TACCCTGGATTCTCTGAACAA-------------

aV2.3m\_T11\_070612\_2---CCGGTCGAAT------------------------

aV2.3J\_V12\_102810\_1---CCGACCT---------------------------

aV2.3J\_V07\_110210\_1---CGAGCCGCCGCATGGCTGAT--------------

aV3m\_T23\_051410\_1-----CC--------------------------------

aV3B\_A\_419.29\_1-------CCGTCC----------------------------

aV3m\_T32\_051410\_1-----CCCGAGATA-------------------------

aV3m\_T30\_051410\_1-----TCAATGGGGAGCTGGGACT---------------

aV3m\_T20A\_060712\_1----CTCGGAC---------------------------

aV3J\_V24\_110210\_1-----TCGAGGGGGCGTACACCAATCCTCCAC-------

aV3J\_V21\_110210\_1-----ATGAGGACTGGAGCTTT-----------------

-------------------------------10--------20--------30---

----------------------....|....|....|....|....|....|....

aV3m\_T21\_051410\_1-----TCGGCT----------------------------

aV3m\_T29\_051410\_1-----CCGAAGGAAGGAT---------------------

aV3m\_T08A\_060712\_1----CAGACGAT--------------------------

aV3B\_A\_419.4\_1--------TCCCCTAAG-------------------------

aV3m\_T11A\_060712\_1----ACCCCG----------------------------

aV3m\_T10\_052410\_1-----CTCGTCGAACTTTGGAGGTAACAC----------

aV3m\_T16A\_060712\_1----CTCGAGA---------------------------

aV3m\_T24\_051410\_1-----CTCGATCTCGTCGCTTGC----------------

aV3m\_T04A\_060712\_1----CCAT------------------------------

aV3J\_V19\_091010\_4-----GCG-------------------------------

aV3J\_V06\_102810\_2-----CTCGCTCTCG------------------------

aV3J\_T21\_100710\_2-----TCTAGTTTCT------------------------

aV3J\_V16\_090110\_1-----TCGGGCAGGCTACTCC------------------

aV3J\_V15\_102810\_1-----GACCT-----------------------------

aV3m\_T13A\_060712\_1----CCGGTCCCGCGCTAACGCC---------------

aV3m\_T31\_051410\_1-----TGTACT----------------------------

aV3J\_T21\_100410\_1-----CAA-------------------------------

aV3B\_A\_419.11\_1-------CCAAATACT-------------------------

aV3m\_T27\_051410\_1-----C---------------------------------

aV3m\_T23A\_060712\_1----TTCCACTGATTCAGGGGGTGCCACTCCAATAATA

aV3J\_V06\_110210\_1-----GTCCGGG---------------------------

aV3m\_T28\_051410\_1-----GGAC------------------------------

aV3m\_T26\_051410\_1-----CTCGCGTCAT------------------------

aV3m\_T35\_051410\_1-----T---------------------------------

aV4m\_T13\_070612\_1-----CCCGGATCGGGG----------------------

aV4m\_T12\_060612\_1-----GAACTAC---------------------------

aV4J\_V01\_102810\_1-----CCTAGCGGCTAC----------------------

aV4m\_T11\_060612\_1-----CCGCCC----------------------------

aV4B\_A\_419.33\_1-------CCCCGTGCTGGAGCAGCTTCT-------------

aV4J\_T10\_100710\_1-----GCTTGGGGAT------------------------

aV4m\_T12\_071612\_1-----CGG-------------------------------

aV4m\_T09\_061812\_1-----CACGCGG---------------------------

aV4J\_V12\_091410\_2-----TCG-------------------------------

aV4m\_T07\_061812\_2-----CTGCG-----------------------------

aV4m\_T04\_062512\_2-----CCCGGATATGAAC---------------------

aV4m\_T24\_080912\_1-----TCTCAACCCCCCG---------------------

aV4m\_T09\_080212\_3-----AAAAGCCGGGCAT---------------------

aV4m\_T24\_071612\_3-----CTCCAATGCCCG----------------------

aV4J\_V10\_110210\_2-----CCTAGTGGTT------------------------

aV4m\_T04\_061812\_1-----CCGGACGCCG------------------------

aV4J\_V23\_110210\_1-----CCTAGTGGTTAC----------------------

aV4J\_V03\_110210\_1-----CCG-------------------------------

aV4J\_V11\_101310\_1-----CCTAATCTATGATGC-------------------

aV4J\_T14\_100710\_1-----CTCAC-----------------------------

aV4B\_A\_419.24\_1-------TTTTTGGTGACTCGA-------------------

aV5B\_A\_419.36\_1-------CAC-------------------------------

aV5B\_A\_419.1\_1--------CCCAACG---------------------------

aV5J\_V02\_090110\_1-----CGGTTGAATGCTGGAGGAAGTAAT----------

aV5J\_T06\_100410\_1-----TTAT------------------------------

-------------------------------10--------20--------30---

----------------------....|....|....|....|....|....|....

aV5J\_T05\_100710\_1-----CGCACTGGAGCAGTTCTT----------------

aV5J\_V08\_091410\_1-----CGTCCGGCTCCGCAC-------------------

aV5J\_T03\_100410\_1-----CCAGAGGCATACTGGAGCTTGGACT---------

aV5J\_V20\_091010\_2-----AGACGTGAT-------------------------

aV5m\_T08\_072712\_21----AGATTAAGAAA-----------------------

aV5m\_T07\_071212\_2-----GGGGCTAGGG------------------------

aV5J\_T05\_100410\_1-----AATGGCGT--------------------------

aV5J\_T39\_100410\_1-----CCCGAGCCCACCGAGAGAT---------------

aV6B\_A\_419.18\_1-------CAGCCTGGCCGGT---------------------

aV6J\_V11\_090110\_1-----CCGCGCGGCCGGGTTT------------------

aV6B\_A\_419.32\_1-------CAGCCTCCT-------------------------

aV6m\_T05\_070912\_1-----CAGCCCA---------------------------

aV6m\_T11\_080912\_3-----GTCGAAT---------------------------

aV6B\_A\_419.23\_1-------CCGCCGGGGGTCT---------------------

aV7m\_T14B\_060712\_1----GCCGGCGGG-------------------------

aV7m\_T14\_071212\_1-----CCCCCGGGGGT-----------------------

aV7m\_T14\_080212\_1-----CCGGCC----------------------------

aV7J\_V21\_090110\_1-----TGGACT----------------------------

aV7B\_A\_419.43\_1-------AACCGAGTCA------------------------

aV7m\_T20\_080212\_1-----GGCGAG----------------------------

aV7J\_V03\_101310\_1-----CGGCTTCTGAACTAT-------------------

aV7m\_T31\_052410\_1-----CCTATCGTAT------------------------

aV7m\_T16\_072712\_6-----GATC------------------------------

aV7m\_T17\_080912\_3-----CGCCACCCC-------------------------

aV7J\_T15\_100710\_2-----CCGAT-----------------------------

aV7m\_T21\_072610\_2-----CCCAGTCCGATGTAT-------------------

aV7m\_T21\_080912\_2-----CTG-------------------------------

aV7m\_T10\_071212\_2-----CTCATCG---------------------------

aV7m\_T04\_051410\_2-----CCGTGGGGG-------------------------

aV7J\_V04\_102810\_2-----TGAGAG----------------------------

aV7J\_V18\_091410\_1-----CAATGGGAACTAT---------------------

aV7B\_A\_419.13\_1-------CCGCCGCCTAGGT---------------------

aV7m\_T12\_072610\_1-----TACAATAT--------------------------

aV7m\_T16\_051410\_1-----ATACGGCTGCTGGC--------------------

aV7m\_T11B\_060712\_1----CAGCAGCC--------------------------

aV7m\_T20B\_060712\_1----TAT-------------------------------

aV7m\_T18\_051410\_1-----GGGGAT----------------------------

aV7m\_T13B\_060712\_1----TCGCGAAT--------------------------

aV7J\_V02\_102810\_1-----GGGGCT----------------------------

aV7J\_T08\_100410\_1-----TGGACCCCCTATACT-------------------

aV7m\_T12\_051410\_1-----GGGT------------------------------

aV7J\_T04\_100710\_1-----CGTCCGC---------------------------

aV7J\_V03\_091410\_1-----CTAGTG----------------------------

aV7J\_T16\_100710\_1-----CTATCAGATGTTGGCACC----------------

aV7m\_T17\_051410\_1-----GTCACG----------------------------

aV7J\_V04\_110210\_1-----CGGGT-----------------------------

aV7m\_T32\_052410\_1-----CCTATCCATC------------------------

aV7B\_A\_419.42\_1-------GGCTCTAACT------------------------

aV7J\_T07\_100410\_1-----TTAAGAA---------------------------

-------------------------------10--------20--------30---

----------------------....|....|....|....|....|....|....

aV7J\_T20\_100410\_1-----CTACT-----------------------------

aV7m\_T16B\_060712\_1----AGTCAATAC-------------------------

aV7m\_T02\_051410\_1-----TTGTCGGCTGAT----------------------

aV7J\_T01\_100710\_1-----CCTGGGTAT-------------------------

aV7J\_T22\_100410\_1-----TCTATGAGGCGG----------------------

aV7J\_T02\_100710\_1-----AG--------------------------------

aV7m\_T06\_051410\_1-----GGGATTTC--------------------------

aV7m\_T19B\_060712\_1----GGAG------------------------------

aV7J\_V10\_091410\_1-----CCGGAAT---------------------------

aV1J\_V18\_090110\_1-----CCCGGCGCT-------------------------

aV7m\_T20\_051410\_1-----CTAGGCTCT-------------------------

aV7J\_V09\_090110\_1-----GAGTACATGGAA----------------------

aV9J\_V17\_091010\_1-----TCATCATCATG-----------------------

aV9J\_V20\_091410\_1-----GAAGAGCTGG------------------------

aV9J\_T06\_100710\_1-----TTGGCGTCCCACGCGCCG----------------

aV9J\_T09\_102810\_1-----AGTACCATCGATT---------------------

aV9J\_T19\_100410\_1-----TACT------------------------------

aV9m\_T05\_071212\_1-----GCTGATATAGGAGATAGA----------------

aV9J\_V10\_090110\_1-----CCCCCCCGGAC-----------------------

aV9m\_T16\_071612\_3-----CCCAT-----------------------------

aV9m\_T10\_080212\_3-----GGTGATACT-------------------------

aV9B\_A\_419.46\_2-------AC--------------------------------

aV9J\_V05\_110210\_2-----CAATGGCATTCGGAATGCTGGCACTGAC------

aV9m\_T16\_072612\_1-----TGGGGTCATACT----------------------

aV9J\_V12\_110210\_1-----GAAG------------------------------

aV10.1J\_V04\_090110\_6--AAAT------------------------------

aV10.1m\_T01\_071212\_5--ATCA------------------------------

aV10.1m\_T09\_072612\_5--AATCAGAATGCTAACGCCAAC-------------

aV10.1m\_T15\_080912\_3--TTTCATT---------------------------

aV10.1J\_V03\_090110\_3--TCAAT-----------------------------

aV10.1m\_T05\_060612\_2--AAATCGCT--------------------------

aV10.1m\_T17\_070612\_2--AAACGGCCC-------------------------

aV10.1m\_T13\_071212\_2--AACGAGCAG-------------------------

aV10.1m\_T20\_062512\_1--AGGCTGGA--------------------------

aV10.1J\_V13\_090110\_1--CTC-------------------------------

aV10.1J\_V13\_091010\_1--TTGCTC----------------------------

aV10.1m\_T03\_062012\_1--GTCTGT----------------------------

aV10.1m\_T08\_060612\_1--AAGAAT----------------------------

aV10.1m\_T13\_062612\_1--TCACAC----------------------------

aV10.1m\_T16\_071212\_1--CGGAGAATG-------------------------

aV10.1m\_T12\_070912\_1--AACCAGGATATC----------------------

aV10.1J\_V18\_102810\_1--AGTCGGACTTACGGAGCTGGTACT----------

aV10.1J\_T01\_100410\_1--AAAGTGCCGGTG----------------------

aV10.1J\_T46\_100410\_1--AAACGGGATGATT---------------------

aV10.2J\_T23\_100410\_1--CCATCGTCA-------------------------

aV10.2J\_V07\_101310\_1--CTGAGACATCGCCCCCCTG---------------

aV10.2J\_V16\_110210\_1--ATTGCTC---------------------------

aV10.2J\_V22\_091410\_1--CCTGCTC---------------------------

aV10.1m\_T14\_062012\_1--CGAACGAGAACTATGCAAACAG------------