```
                  10        20        30        40        50        60        70        80        90        100
                  ....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|....|
Allele 150        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCGCCCCTCTCCCTCTCTCTCTCT-----------TCGCCGTCCGAAGCTCCGCACCC
Allele 151        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCACCCCTCTCCCTCTCTCTCTCT----------TCGCCGTCCGAAGCTCCGCACCC
Allele 156        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCGCCCCTCTCCCTCTCTCTCTCTCTCT------TCGCCGTCCGAAGCTCCGCACCC
Allele 158        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCTCCCCTCTCCCTCCCTCTCTCTCTCTCT----TCGCCGTCCGAAGCTCCGCACCC
Allele 159        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCGCCCCTCTCCCTCTCCCTCTCTCTCTCTCT--TCGCCGTCCGAAGCTCCGCACCC
Allele 161        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCTCCCCTCTCCCTCCCTCCCTCTCTCTCTCTCTCTTCGCCGTCCGAAGCTCCGCACCC

Allele 154        TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCGCCCCTCTCCCTCTCTCTCTCTCT--------TCGCCGTCCGAAGCTCCGCACCC
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LH40 c1           ..............................................T...............T..................T.....................
LH40 c2           ..............................................T...............T..................T.....................
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LH38 c1           ...............................G...............TT...T...T..........T...................................
LH38 c2           ....................................................................................................
LH38 c3           ....................................................................................................
LH38 c4           ...............................G....................................................................
LH38 c5           ..............................................T.....................................T..T....
LH38 c6           ...........................................T.......................C..............T.TT..T...............
LH38 c7           ....................................................................................................
LH38 c8           ..............................................T.....................................................
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Allele 154 - Z.m.p. TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCACCCCTCTCCCCCCCTCTCTCTCTCT--------TCGCCGTCCGAAGCTCCGCACCC
Allele 154 - Z.m.m. TTGTCTTTCTTCCTCCACAAGCAGCGAAATCCAATCTAGAAGCGCCCCTCTCCCTCTTTCTCTCTCTCT--------TCGCCGTCCGAAGCTCCGCACCC

                  110       120       130       140       150       160
                  ....|....|....|....|....|....|....|....|....|....|....|.
Allele 150        CAATCTAATCGACACCTCACCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 151        CAATCTAATCGACACCTCACCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 156        CAATCTAATCGACACCTCGCCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 158        CAATCTAATCGACACCTCACCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 159        CAATCTAATCGACACCTCGCCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 161        -AATCTAATCGACACCTCACCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT

Allele 154        CAATCTAATCGACACCTCGCCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
-------------------------------------------------------------------------------
LH40 c1           T...........................................................
LH40 c2           T..................A........................................
-------------------------------------------------------------------------------
LH38 c1           ...........................................................
LH38 c2           ...........................................................
LH38 c3           .......G...................................................
LH38 c4           ..........................................................C....
LH38 c5           ...........................................................
LH38 c6           ..............T.....T......................................
LH38 c7           ........................C..................T...............
LH38 c8           ...........................................................
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Allele 154 - Z.m.p. CAATCTAATCGACACCTCACCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
Allele 154 - Z.m.m. CAATCTAATCGACACCTCGCCGAGATGGGCCGCAAGTTCTTCGTCGGTGGCAACTGGAAAT
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