

(a)

Genome Ref	Var	Total	Var
Pos	Nuc	Nuc	Depth Freq
346	C	TA	107 2%

RV20 reference TGCCCCGGAAGATTGGACTAGTTACGGAATCAACATTGCTAAGAAAGG

*

Reads with Difference:

HHZJQVG08I8TPF TGCCCCGGAAGATTGGACTAGTTAAGGAATCAACATTGCTAAGAAAGG

HHZJQVG08JLZI2 TGCCCCG-AAGATTGGACTAGTTATGGAATCAACATTGCTAAGAAAGG

*

(b)

Genome Ref	Var	Total	Var
Pos	Nuc	Nuc	Depth Freq
3503	C	T	34 18%

R61 reference TACATGGAACCTTAAGGTGGGATACACCTCGGCCATAAAA

*

Reads with Difference:

HOTR63I03F6R8M TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

HOTR63I03FNF8Y TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

HOTR63I03G1IH Y TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

HNJB Y7V01AJ3QA TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

HNJB Y7V01AXILR TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

HOTR63I03GEUEP TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

*

Published RV61 G-gene sequences

GU936881 TACATGGAACCTTAAGGTGGGATACACCTCGGCCATAAAA

JQ685981 TACATGGAACCTTAAGGTGGGATACATCTCGGCCATAAAA

*

(c)

Genome Ref	Var	Total	Var
Pos	Nuc	Nuc	Depth Freq
11349	A	G	11 27%

JQ685956_RV50 ref TCGTGATAGTCTTCTCCAATAGGGTGTTCAATGTTTCGAAACCGCTGAC

*

Reads with Difference:

HG11MEB03HA8U5 TCGTGATAGTCTTCTCCAATAGGGTGTTTCGATGTTTC

HG11MEB03F15NM TCGTGATAGTCTTCTCCAATAGGGTGTTTCGATGTTTCGAAACCGCTGAC

HG11MEB02EBHFL TCGTGATAGTCTTCTCCAATAGGGTGTTTCGATGTTTCGAAACCGCTGAC

*