

1

Mutation Type Probability

1bp deletion

1bp insertion

>1bp deletion at repeats
(deletion length)>1bp insertion at repeats
(insertion length)Deletion with microhomology
(deletion length)

C

C

2

3

4

5+

2

3

4

5+

2

3

4

5+

0.33

0.22

0.11

0.00

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

+

0

1

2

3

4

5

Homopolymer length

Homopolymer length

Number of repeat units

Number of repeat units

Microhomology length