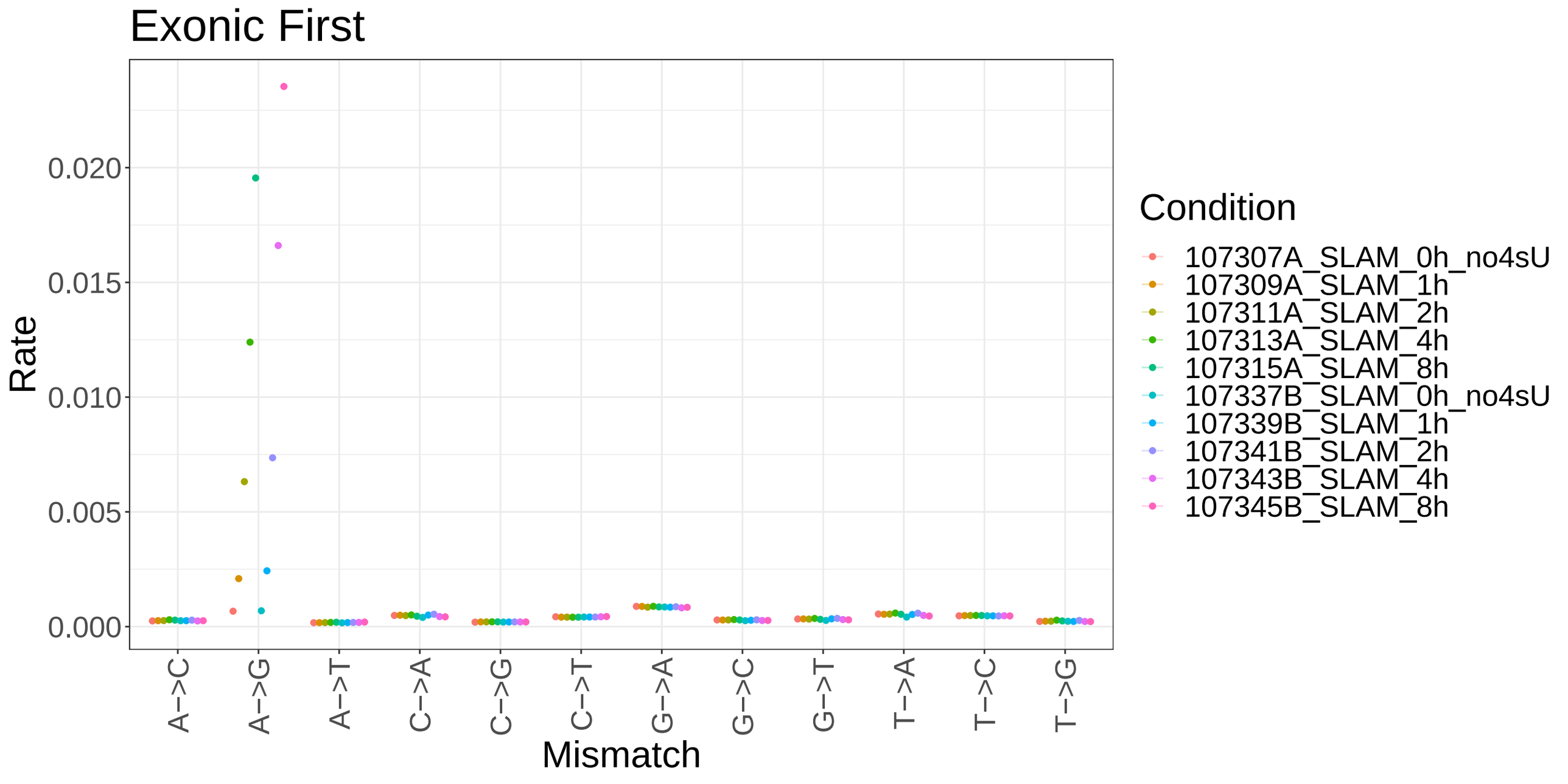
A comparison of metabolic labeling and statistical methods to study genome-wide dynamics of RNA turnover
Supplementary File 3

This file includes mismatch statistics for all nucleotide conversion protocols obtained with GRAND-SLAM (auto-generated plots). The first 96 pages include mismatch rates for all first and second reads mapped to exons, rates distinguishing sense and antisense reads (only antisense shown, same as overall rates), intronic reads (but intronic reads are not considered in the analysis), and rates stratified by mismatch type. The subsequent pages show mismatches for each position in a read for all samples combined, per protocol. The first 100 positions correspond to the first read, and positions 100 to 200 to the second read. Genomic bases are on the top, and the color encodes bases in the reads. Opposite=0 means sense, opposite=1 means antisense. Overlap=0 means outside of any doubly sequenced part, overlap=1 means within the doubly sequenced part. For more information, the reader is referred to https://github.com/erhard-lab/gedi/wiki/GRAND-SLAM


Exonic First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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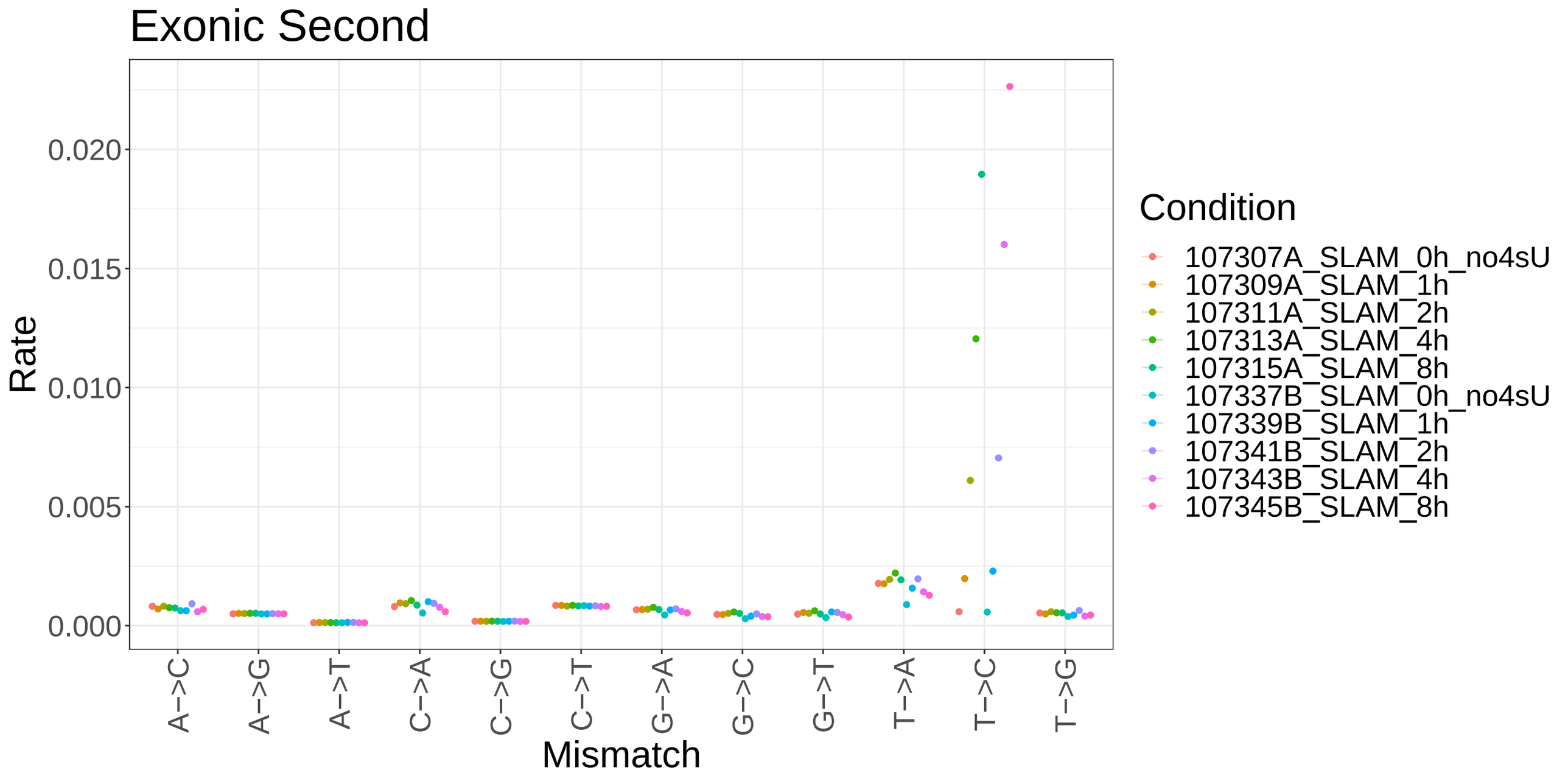
107343B_SLAM_4h
107345B_SLAM_8h


Exonic Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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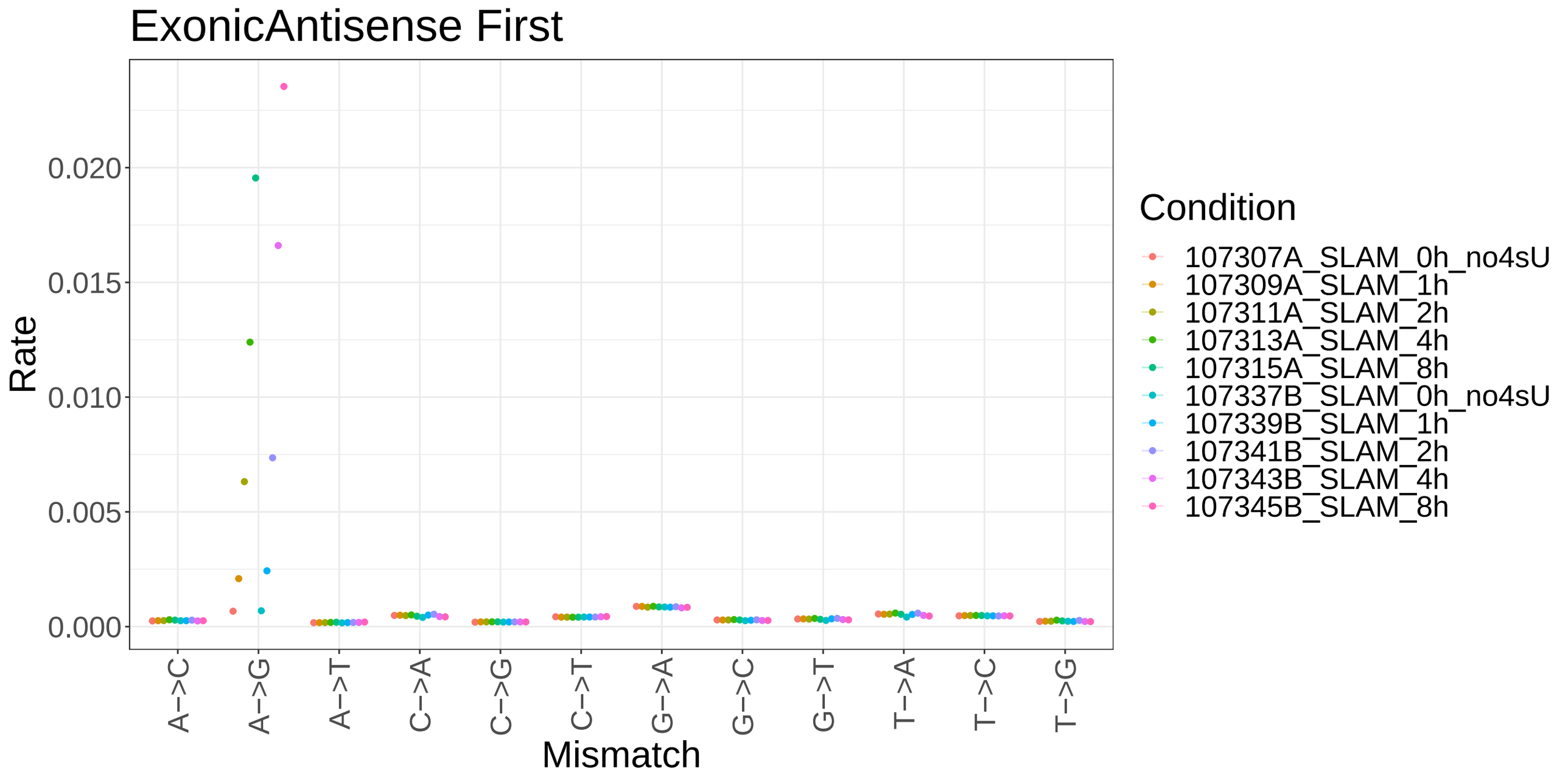
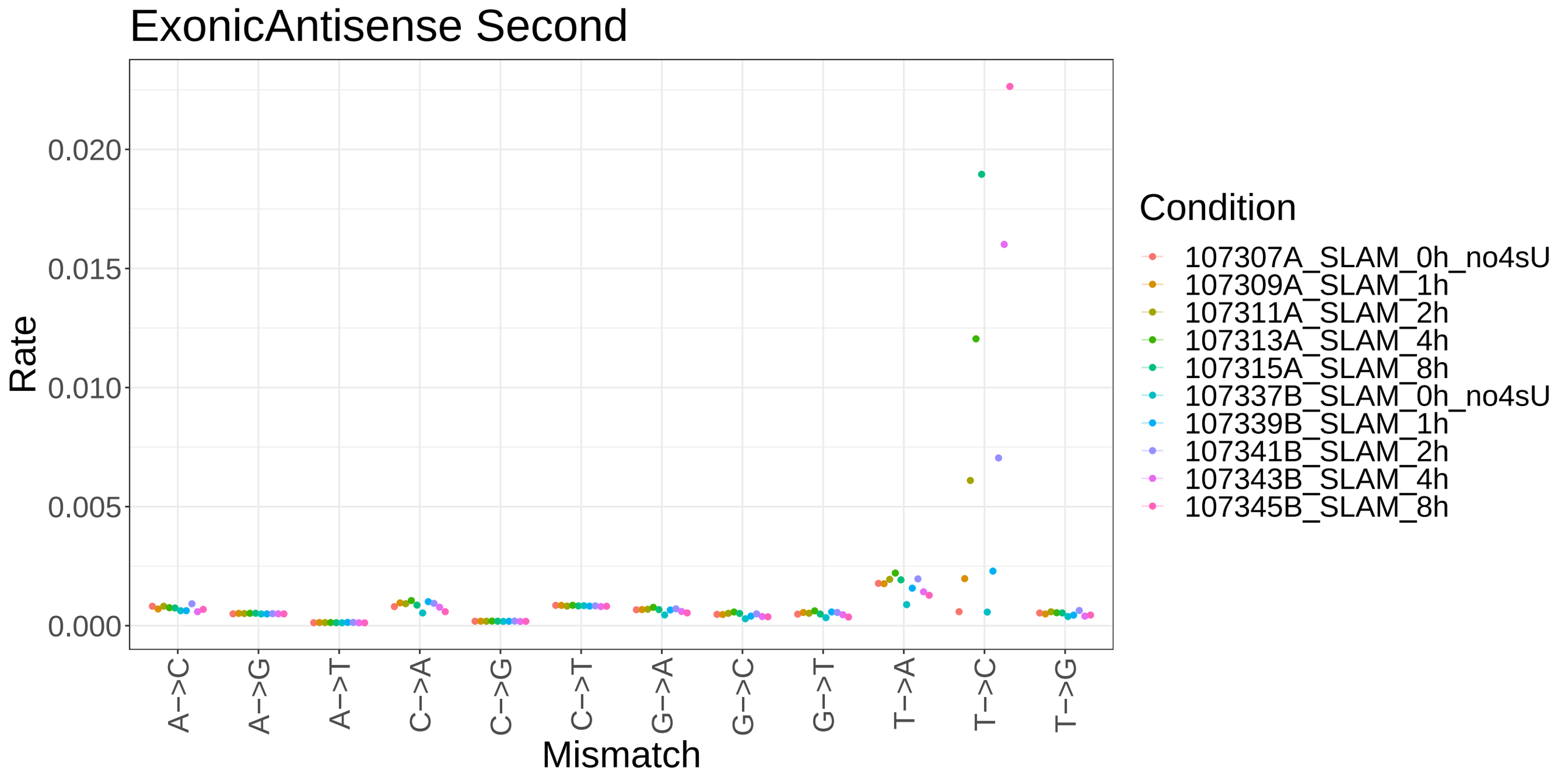
107343B_SLAM_4h
107345B_SLAM_8h


ExonicAntisense First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h


ExonicAntisense Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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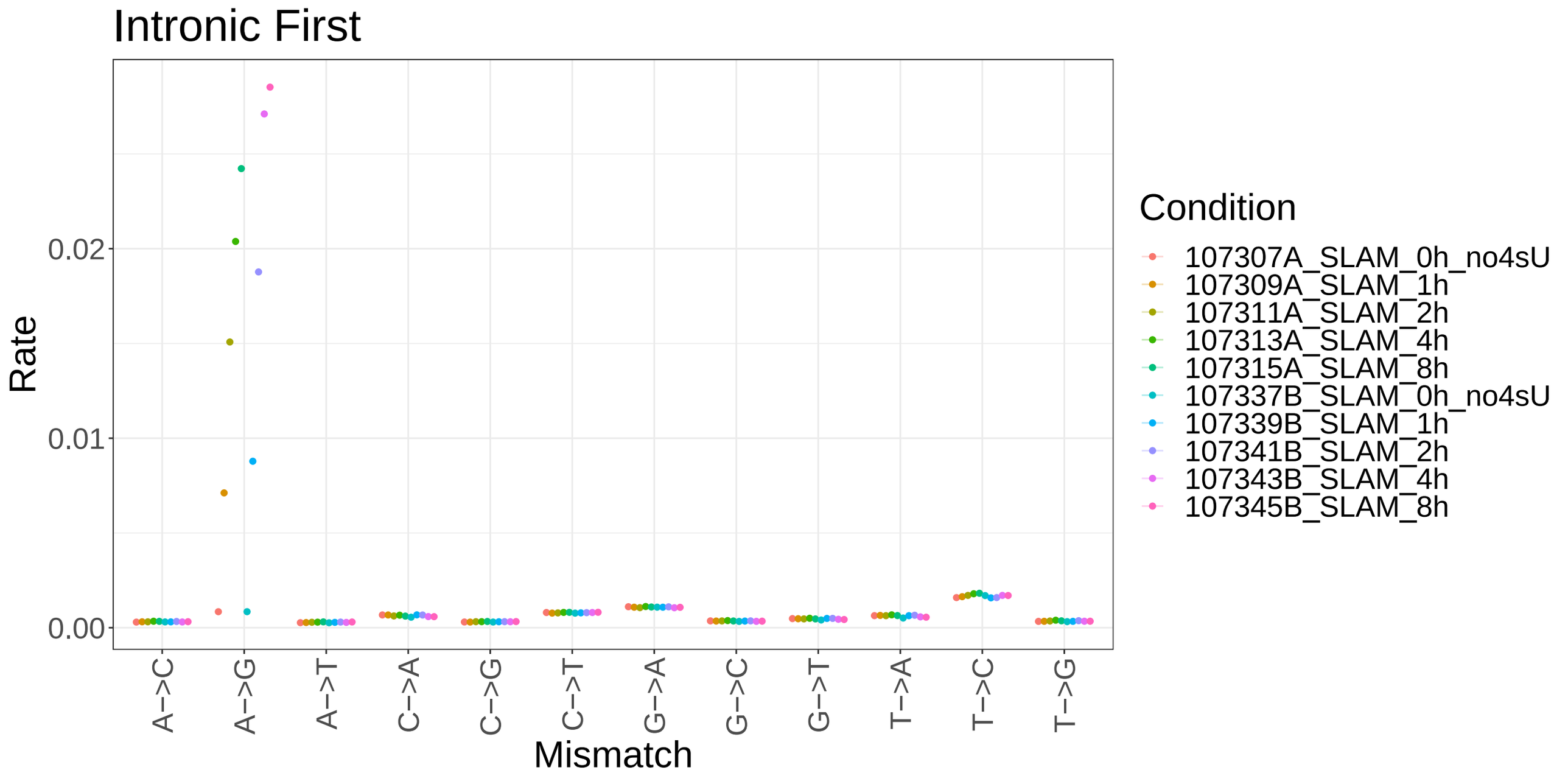
107343B_SLAM_4h
107345B_SLAM_8h


Intronic First
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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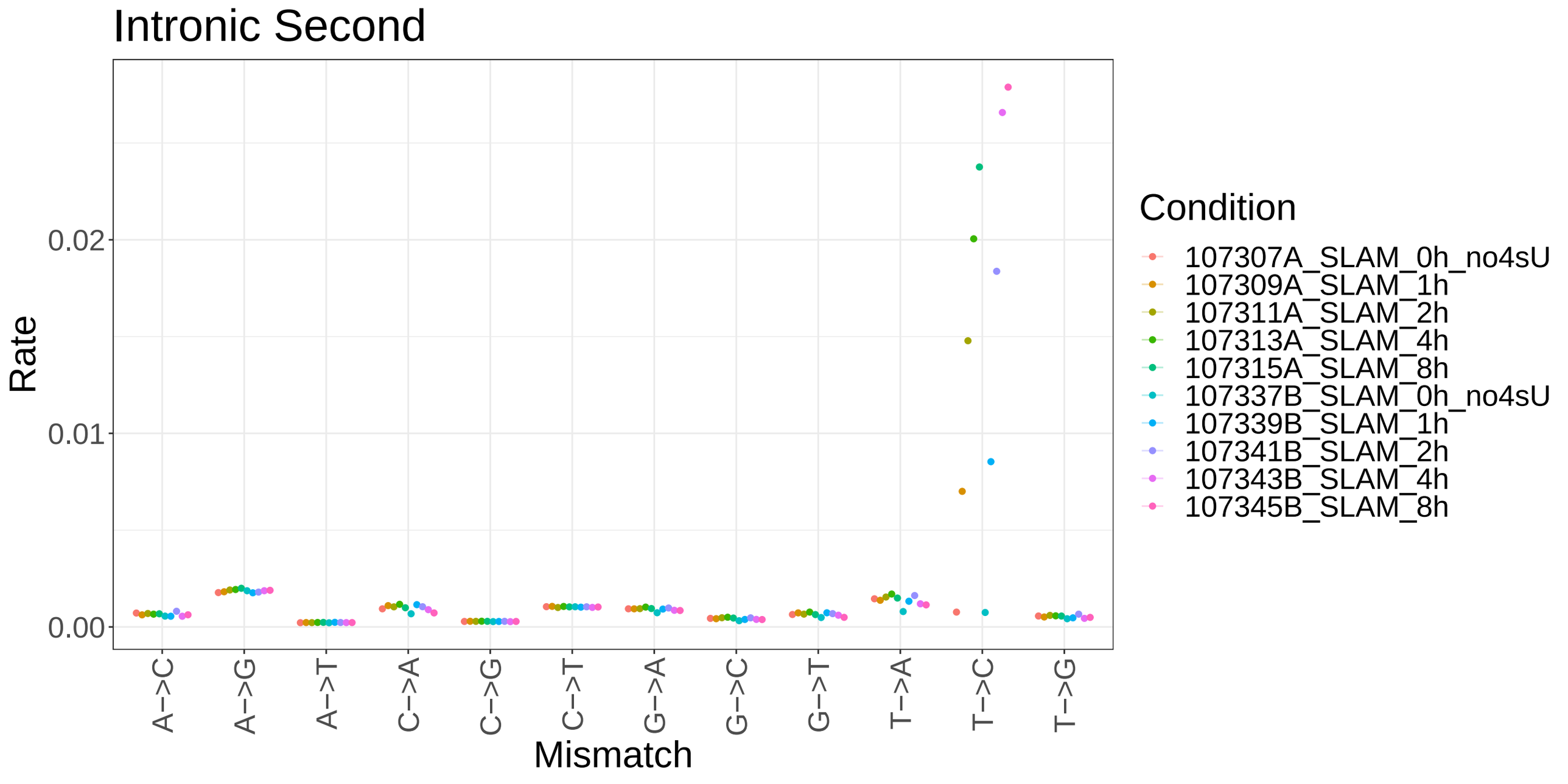
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h


Intronic Second
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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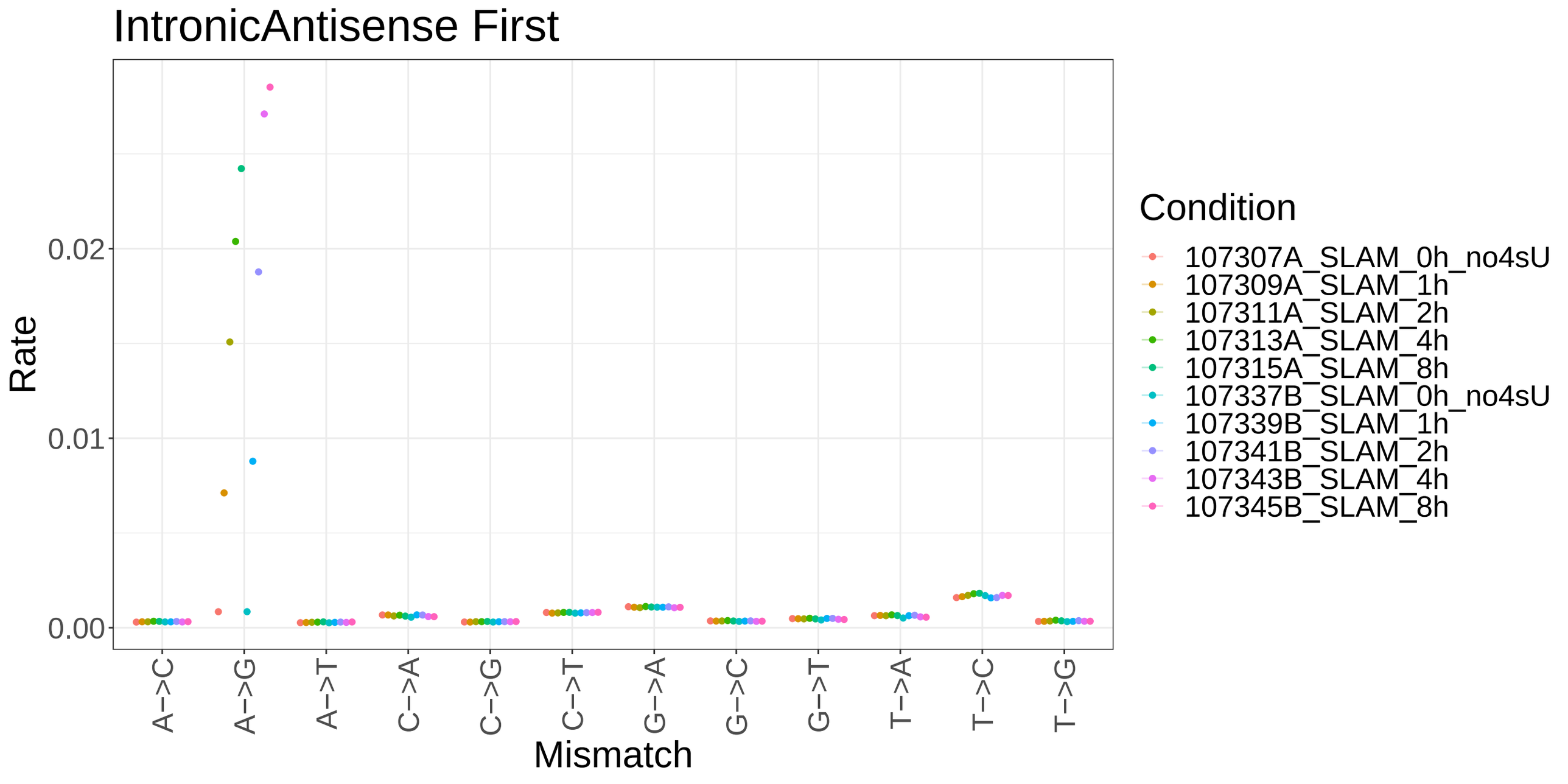
107343B_SLAM_4h
107345B_SLAM_8h


IntronicAntisense First
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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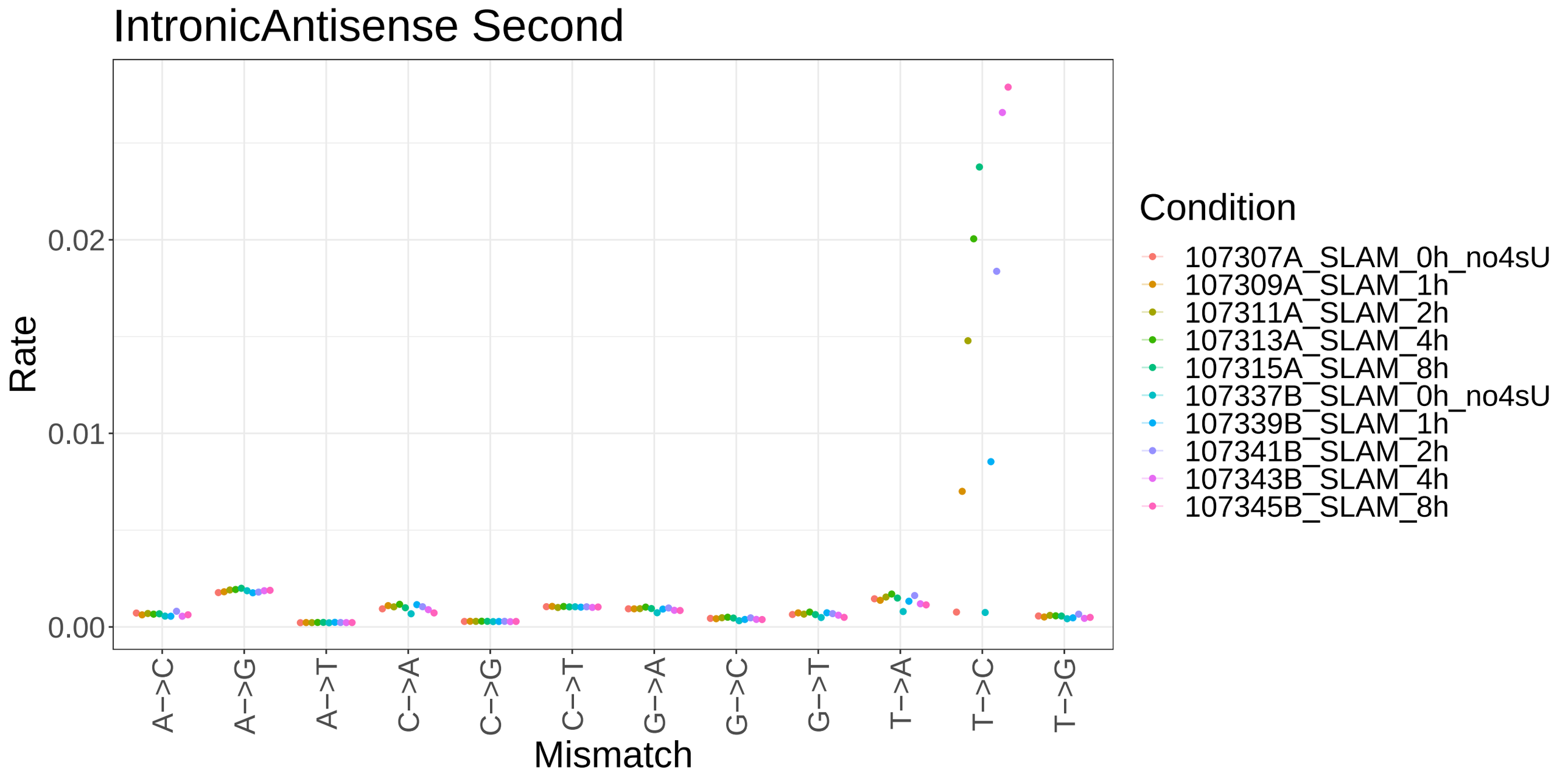
107343B_SLAM_4h
107345B_SLAM_8h


IntronicAntisense Second
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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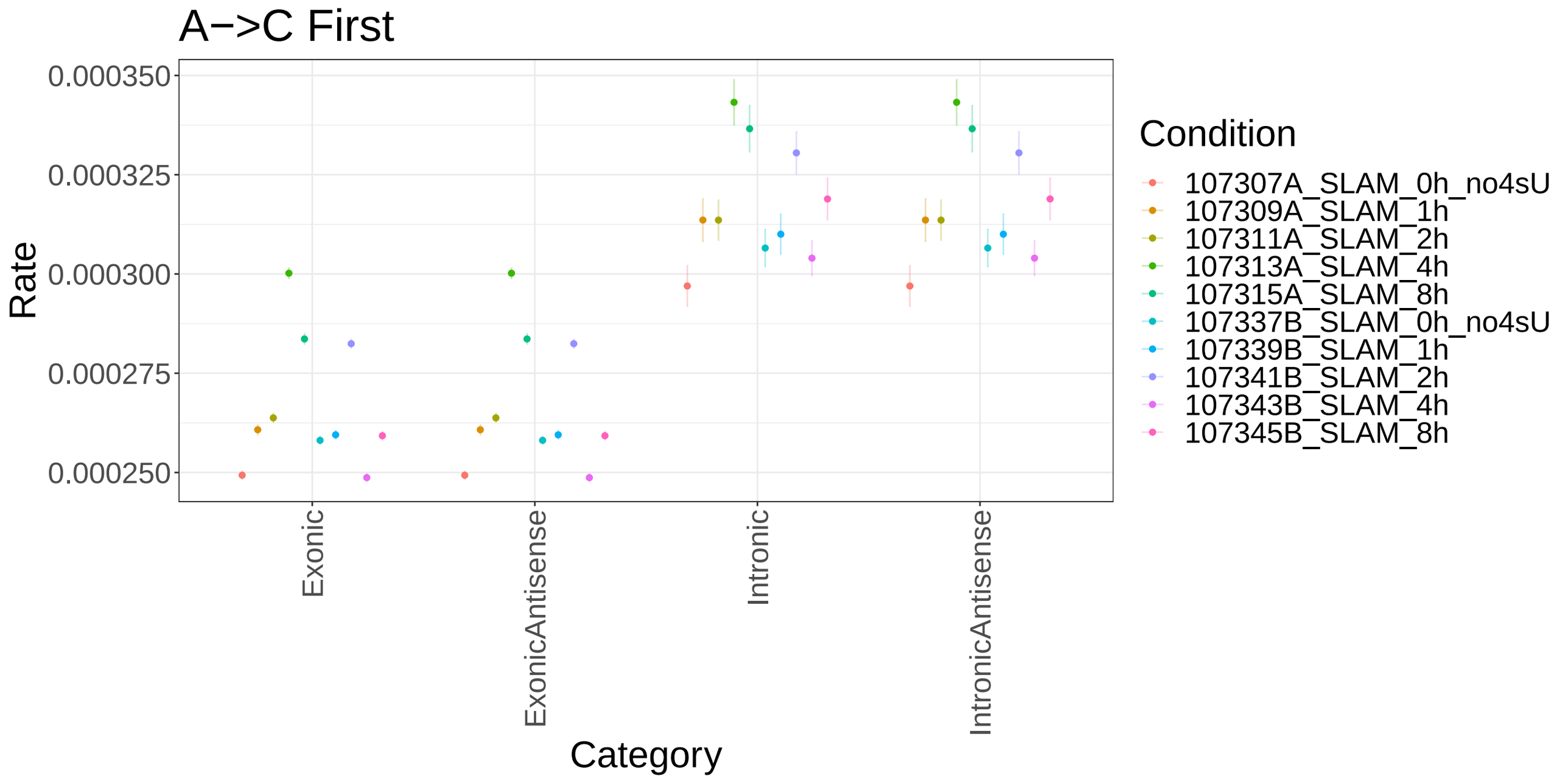
107343B_SLAM_4h
107345B_SLAM_8h


A−>C First
Rate
0.000350
0.000325
0.000300
0.000275
0.000250
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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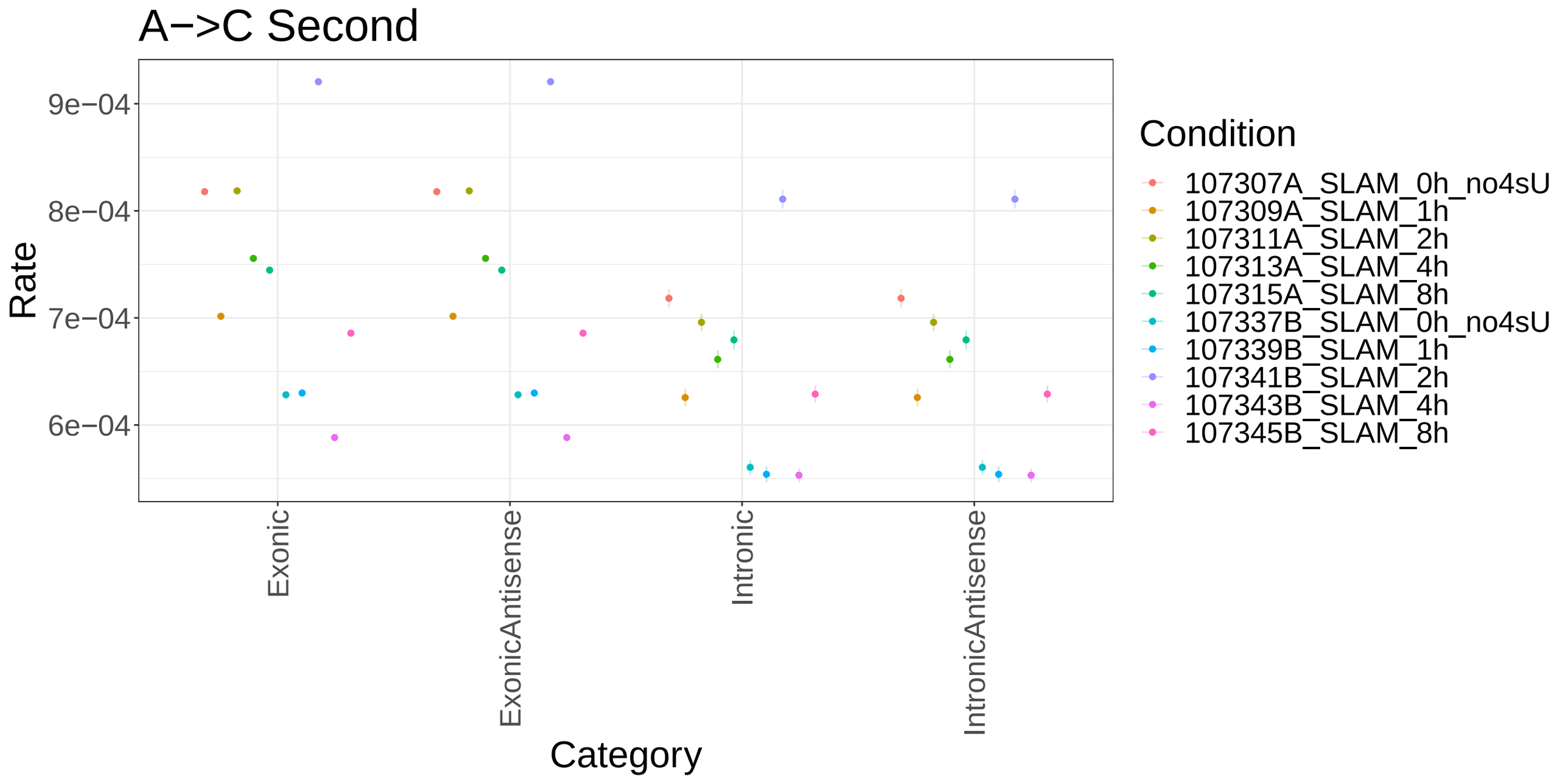
107343B_SLAM_4h
107345B_SLAM_8h


A−>C Second
Rate
9e−04
8e−04
7e−04
6e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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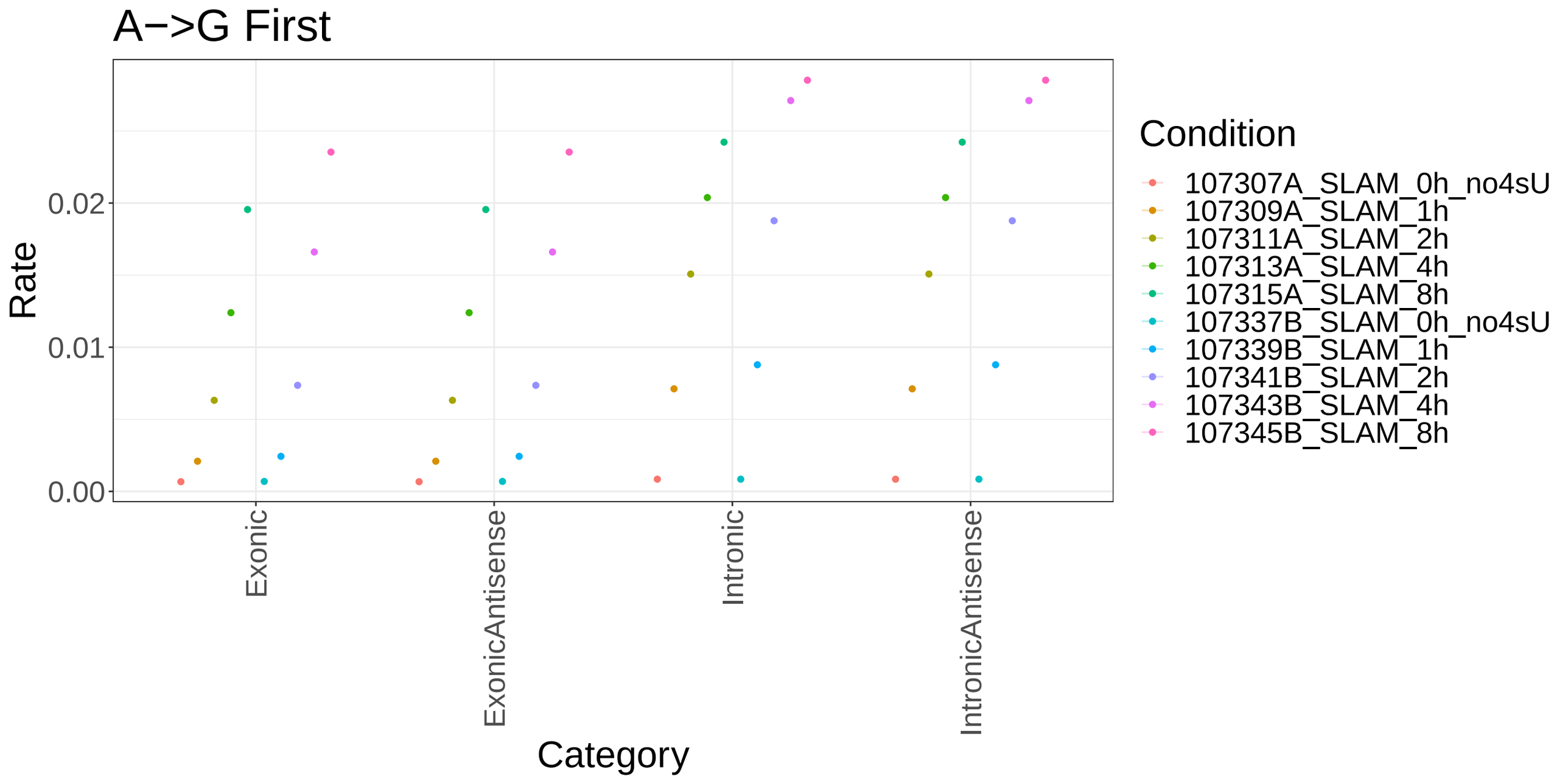
107343B_SLAM_4h
107345B_SLAM_8h


A−>G First
Rate
0.02
0.01
0.00
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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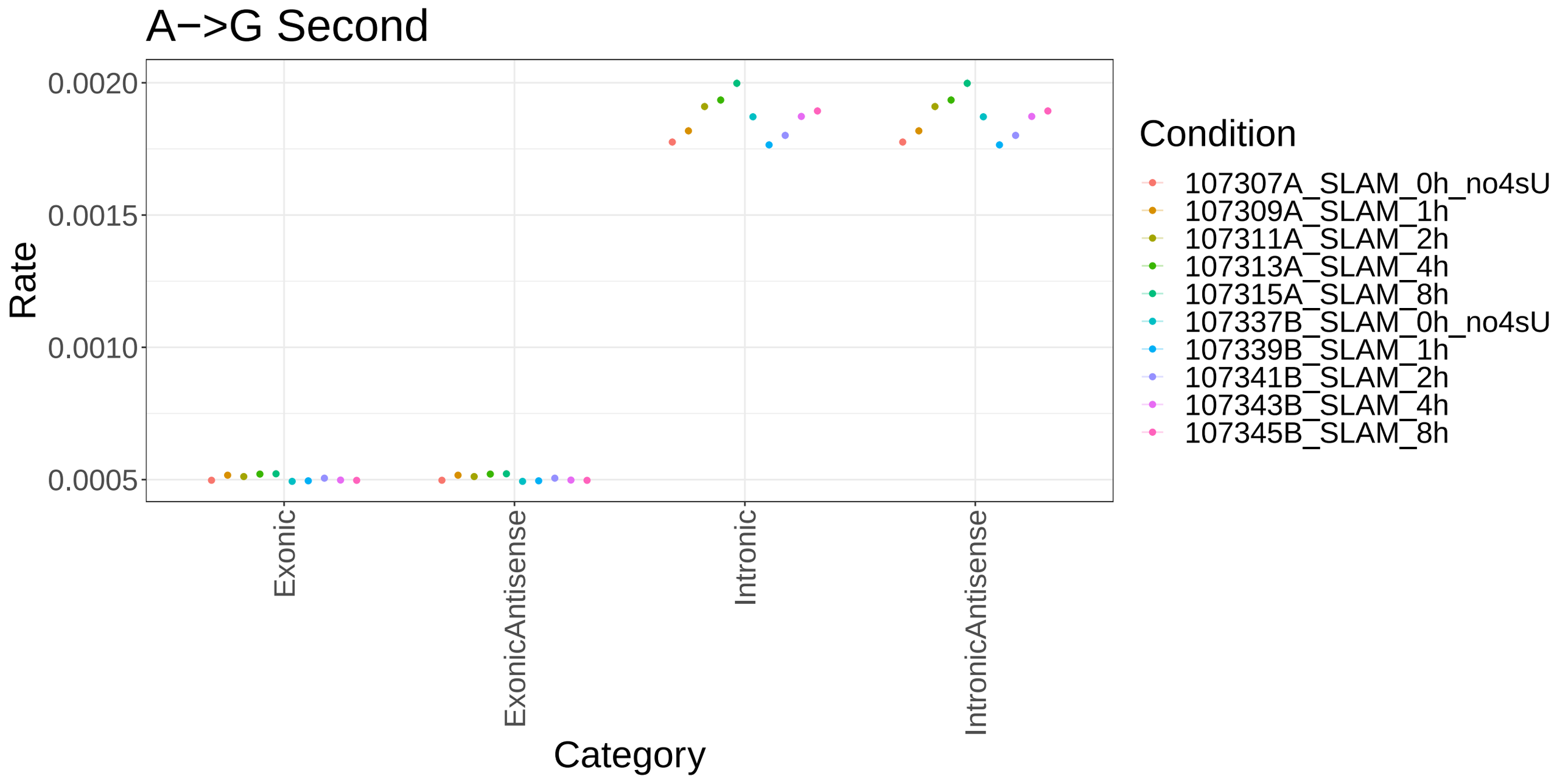
107343B_SLAM_4h
107345B_SLAM_8h


A−>G Second
Rate
0.0020
0.0015
0.0010
0.0005
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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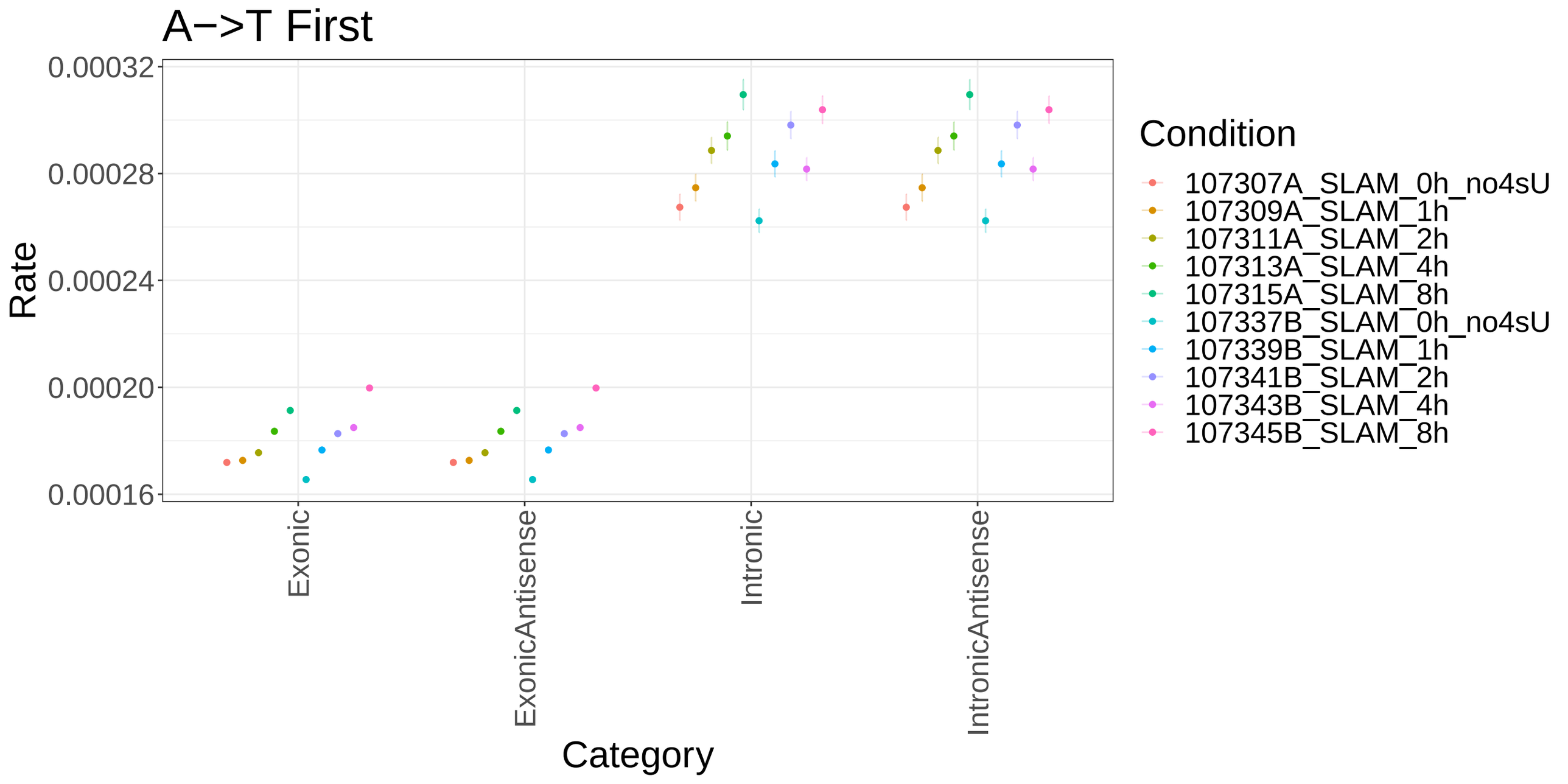
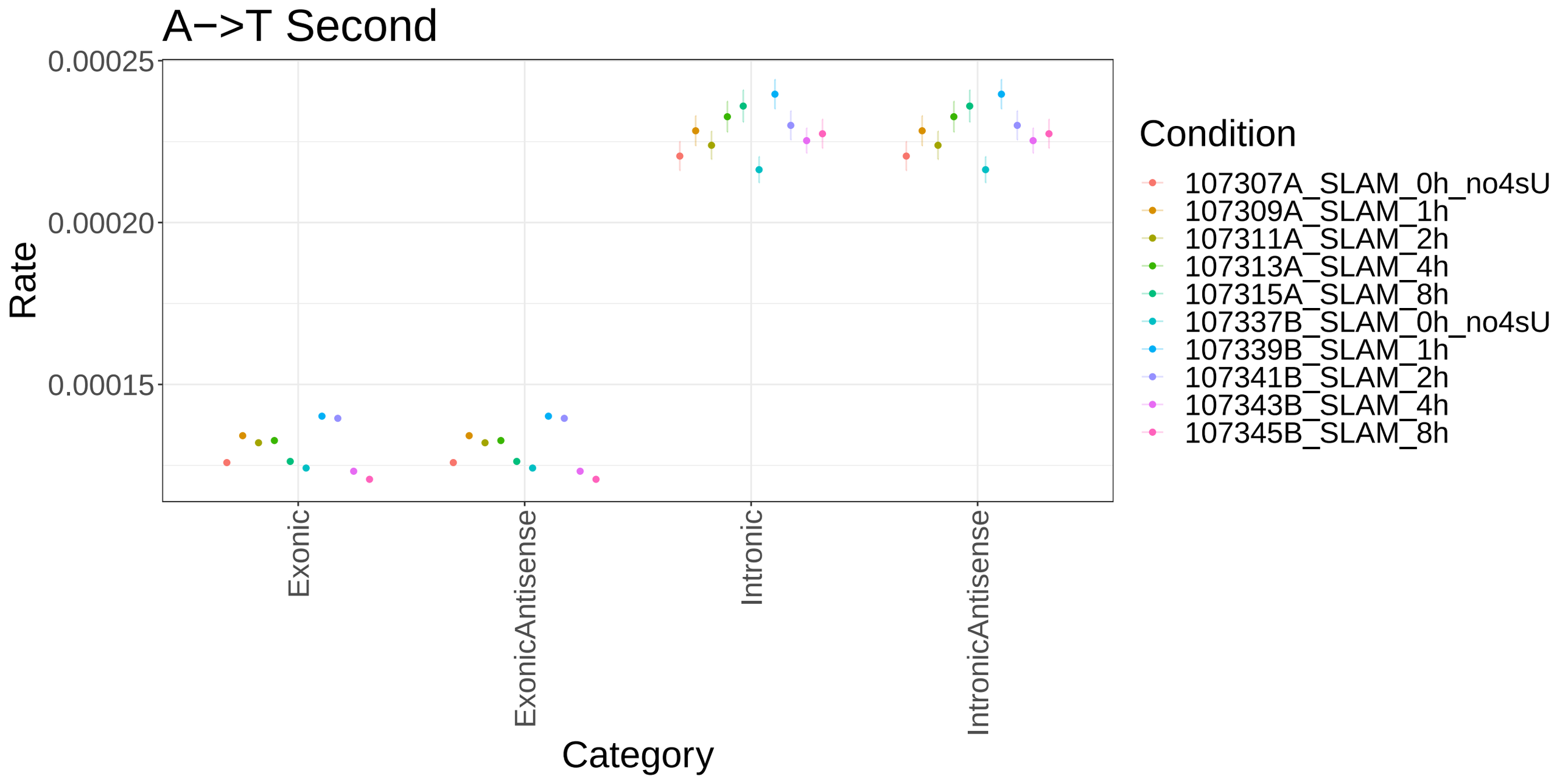
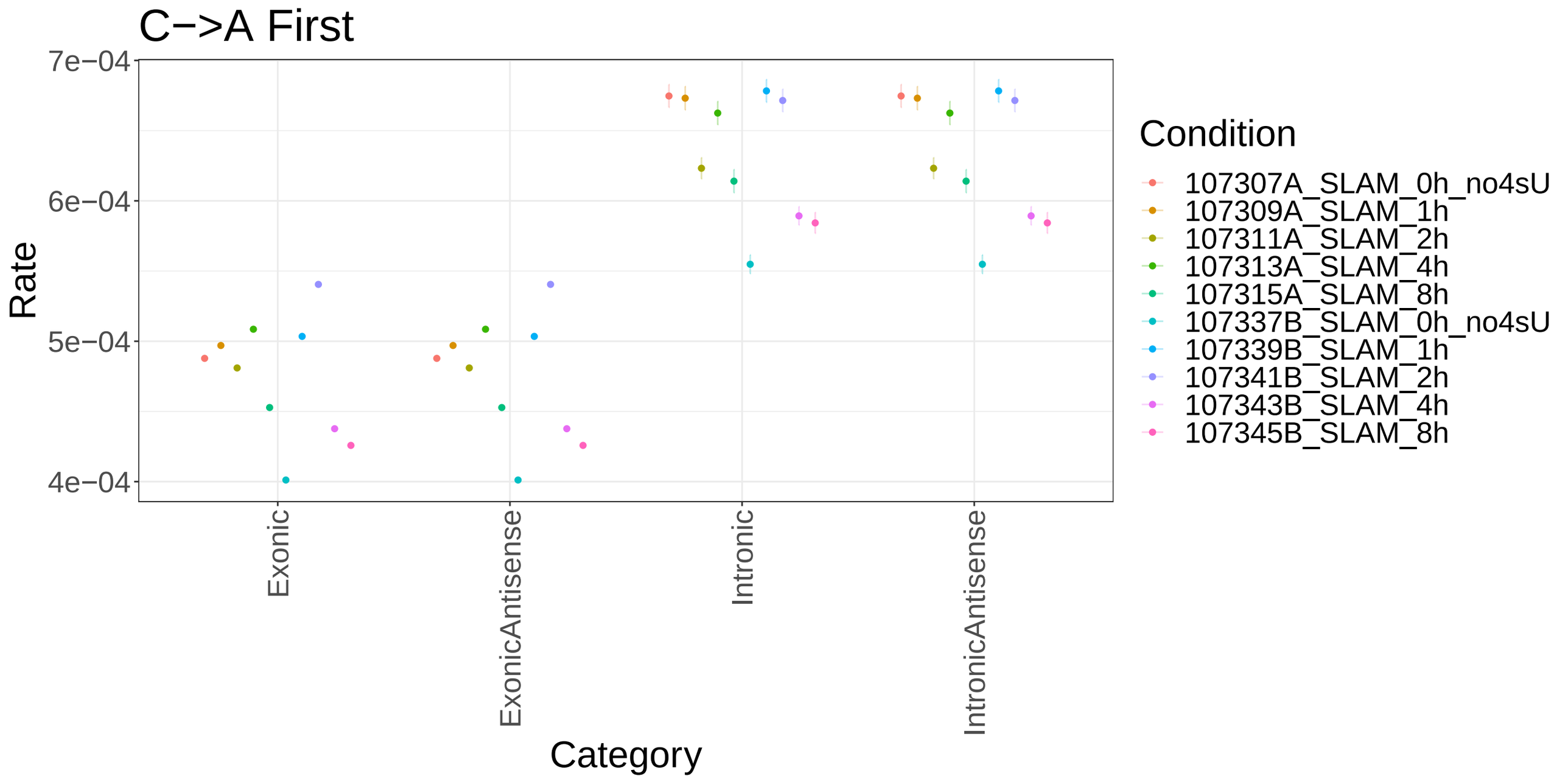
107343B_SLAM_4h
107345B_SLAM_8h


A−>T First
0.00032
0.00028
0.00024
0.00020
0.00016
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h


A−>T Second
0.00025
0.00020
0.00015
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h


C−>A First
7e−04
6e−04
5e−04
4e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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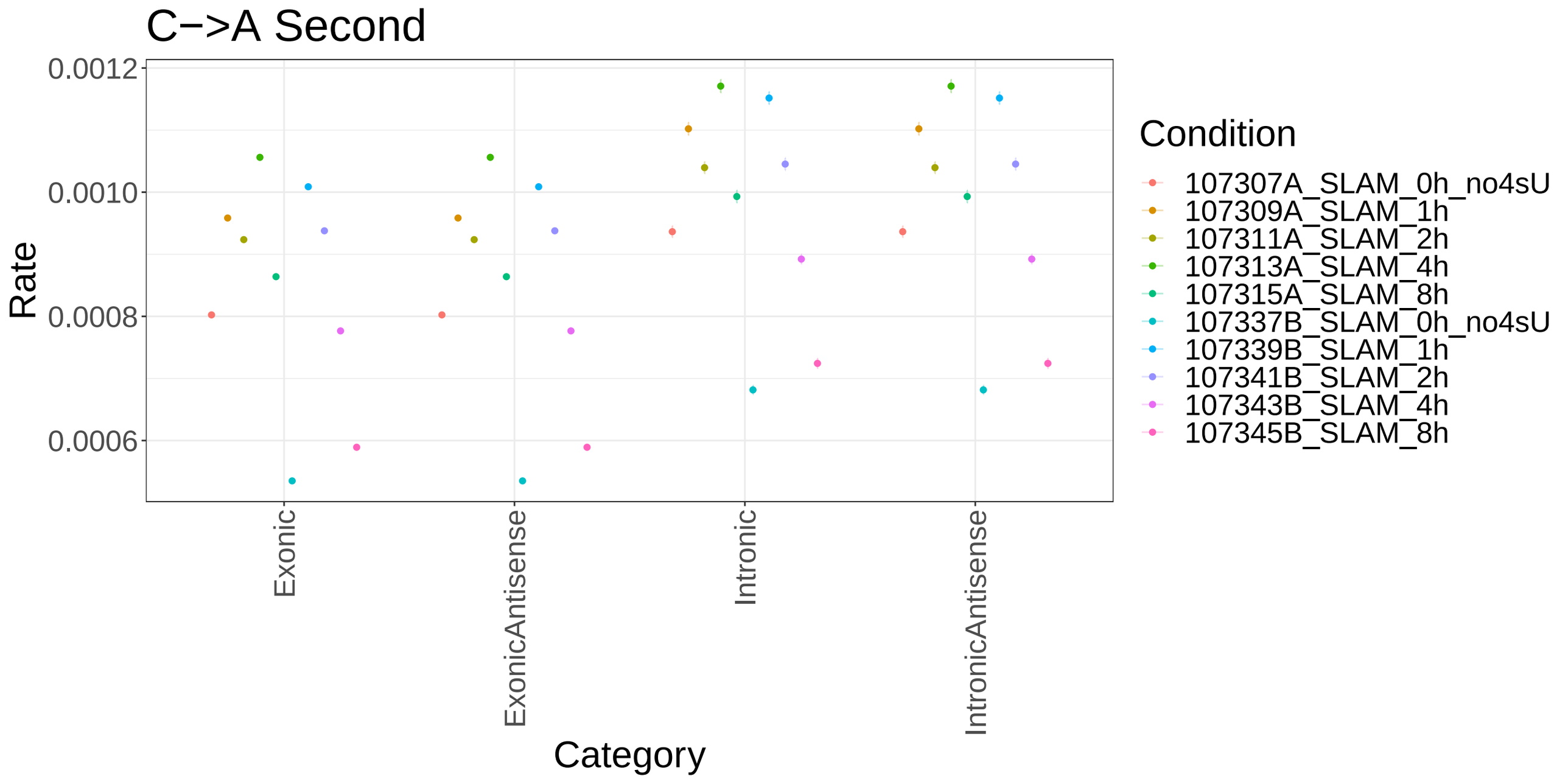
107343B_SLAM_4h
107345B_SLAM_8h


C−>A Second
0.0012
0.0010
0.0008
0.0006
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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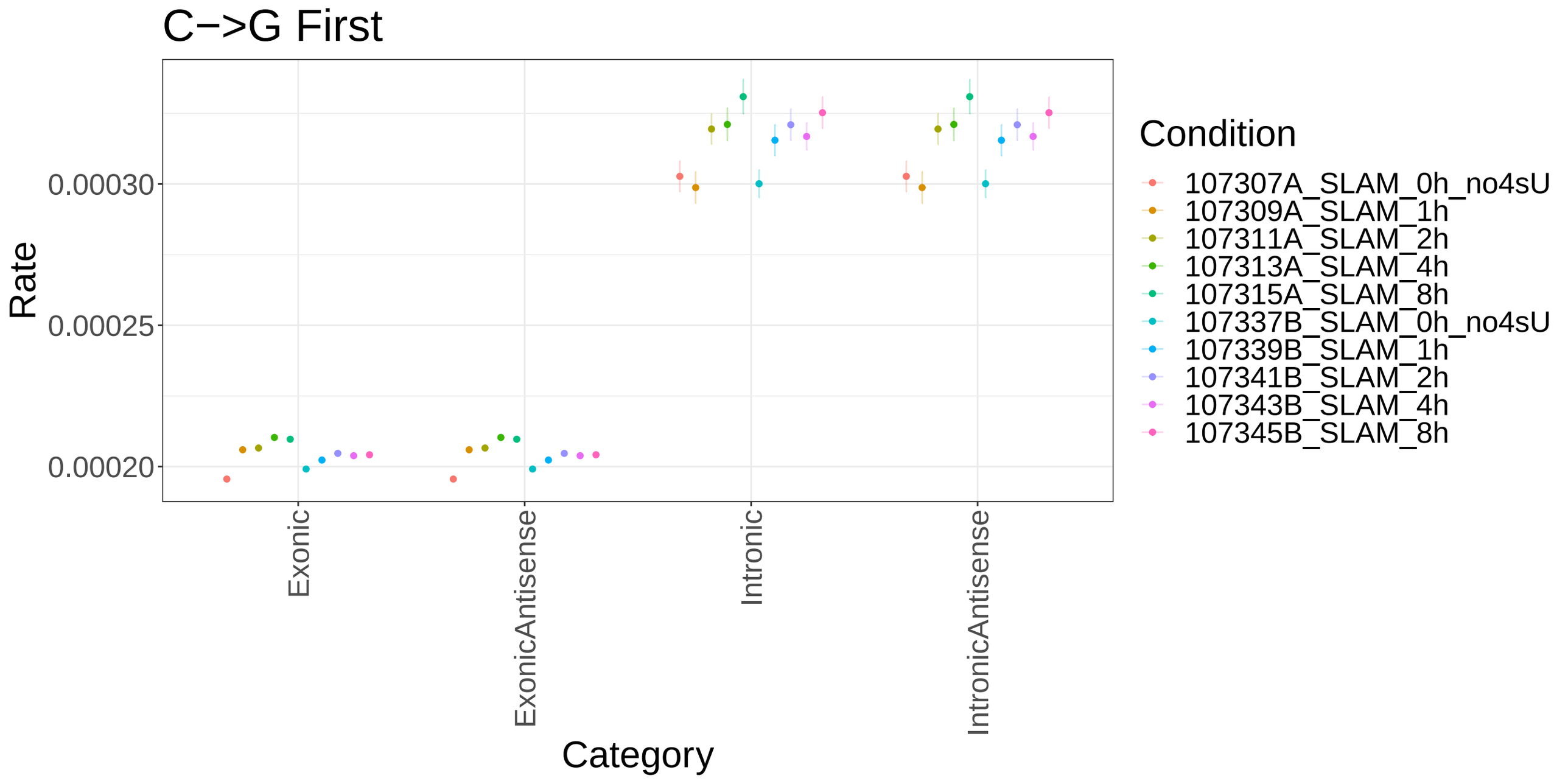
107343B_SLAM_4h
107345B_SLAM_8h


C−>G First
Rate
0.00030
0.00025
0.00020
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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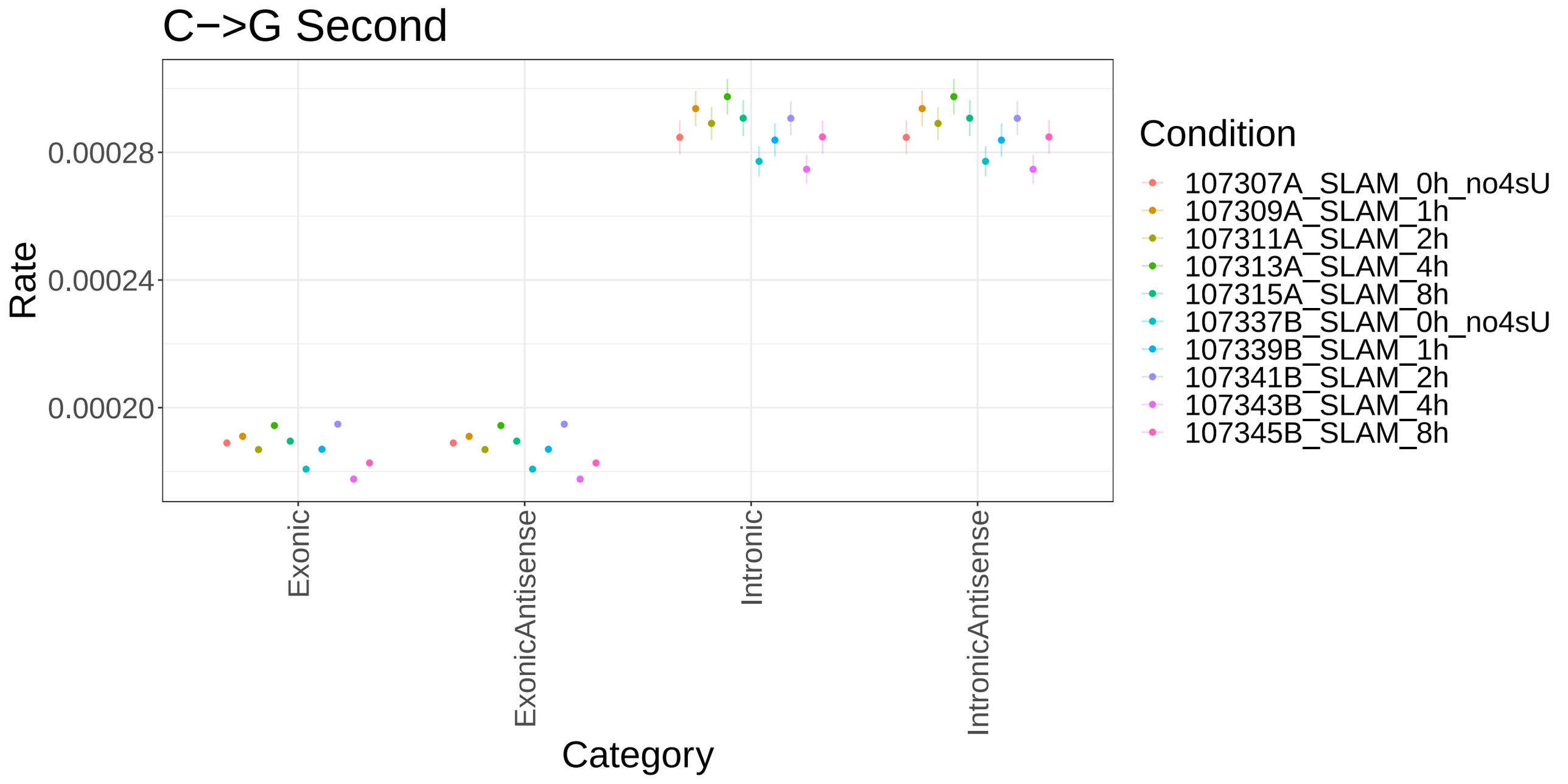
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h


C−>G Second
Rate
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0.00024
0.00020
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
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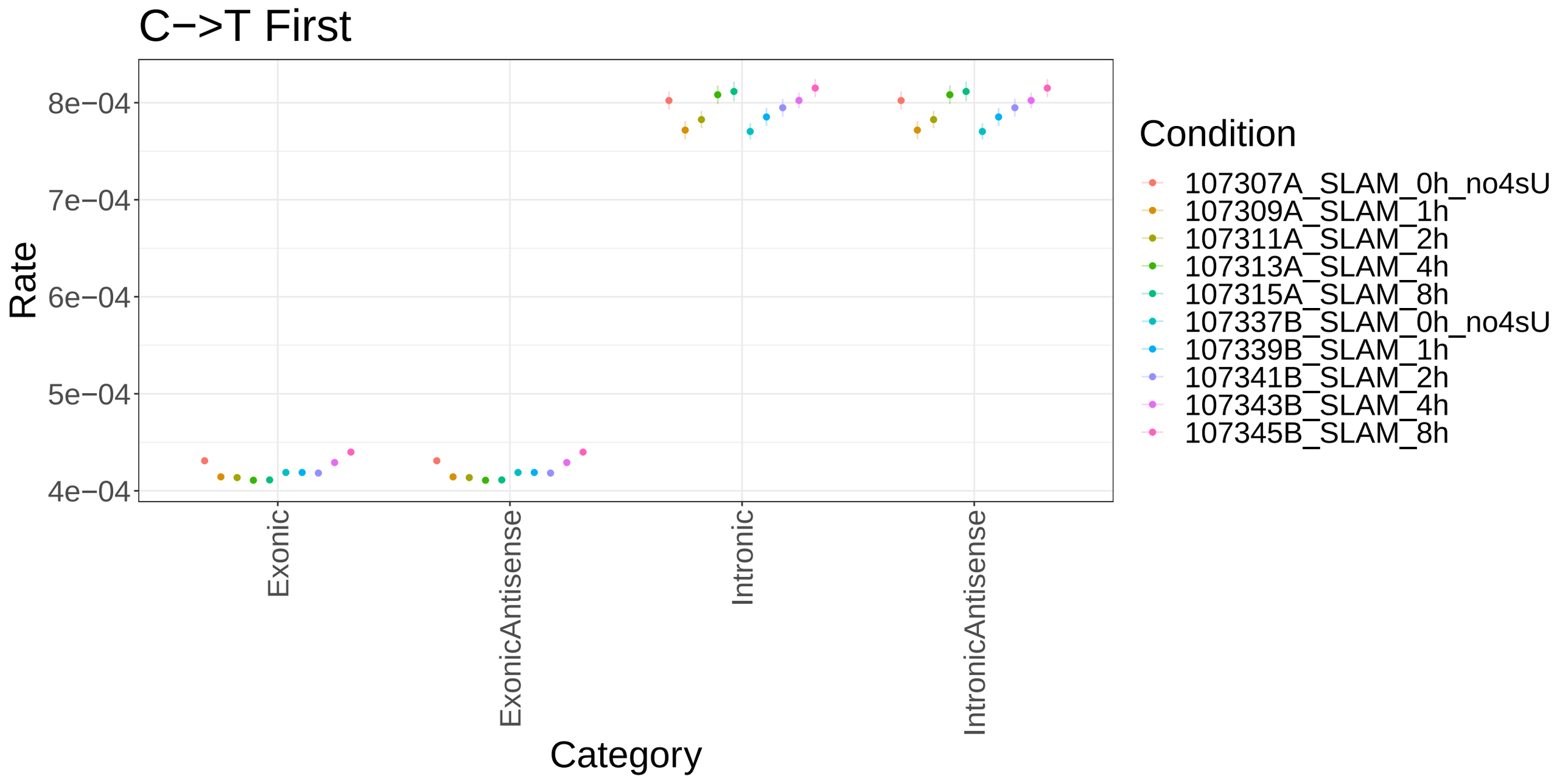
107343B_SLAM_4h
107345B_SLAM_8h


C−>T First
Rate
8e−04
7e−04
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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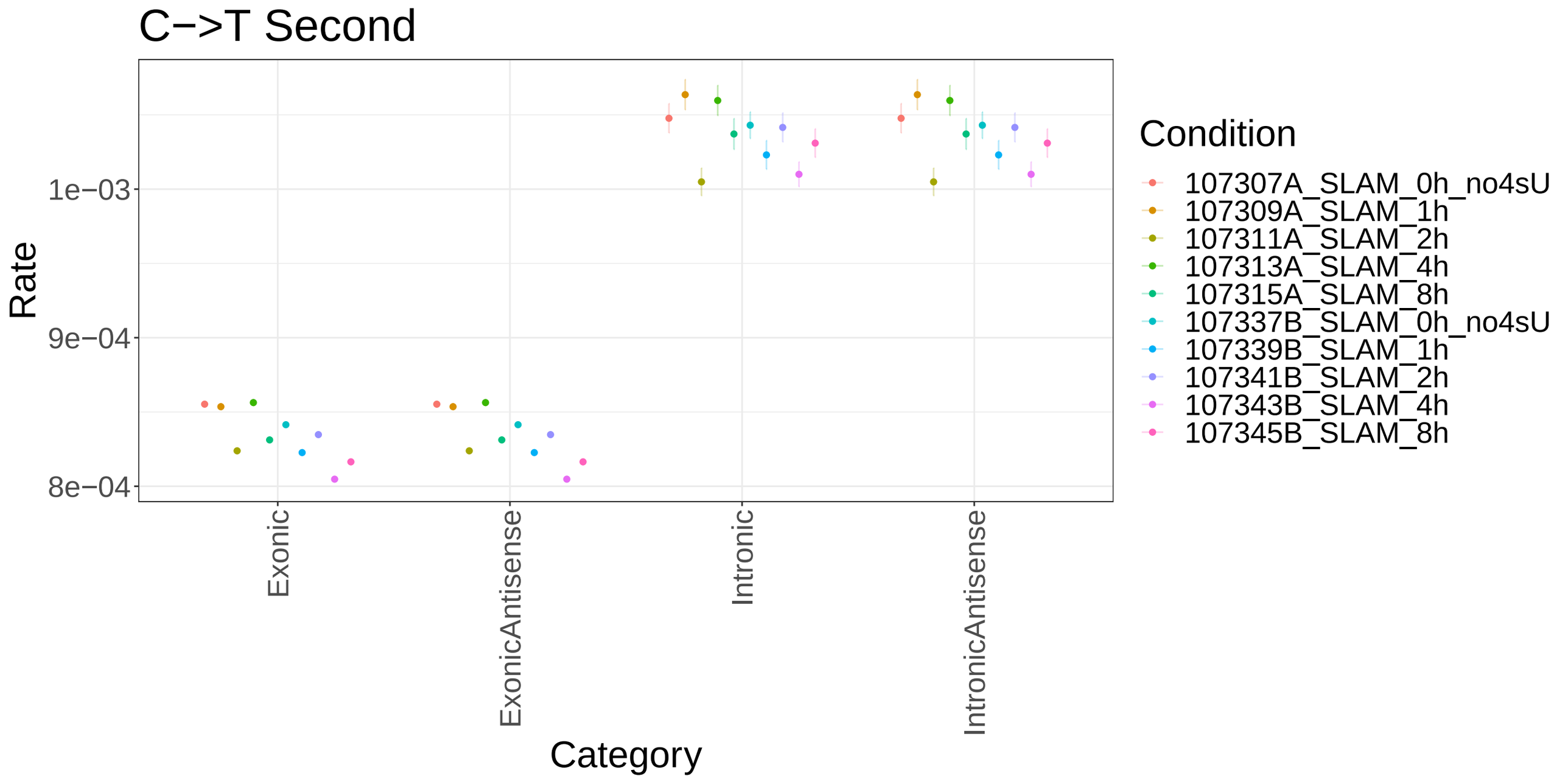
107343B_SLAM_4h
107345B_SLAM_8h


C−>T Second
Rate
1e−03
9e−04
8e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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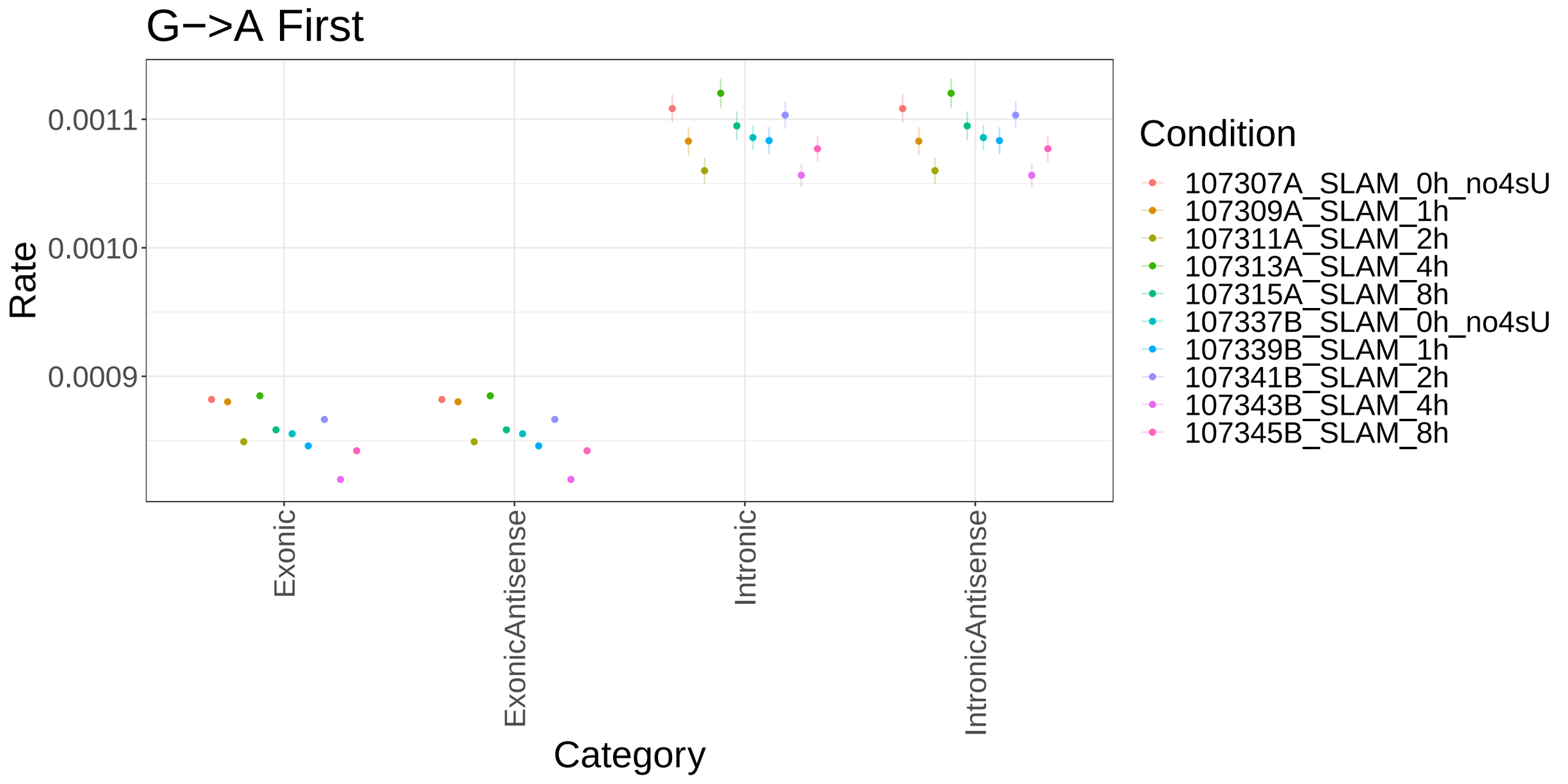
107343B_SLAM_4h
107345B_SLAM_8h


G−>A First
0.0011
0.0010
0.0009
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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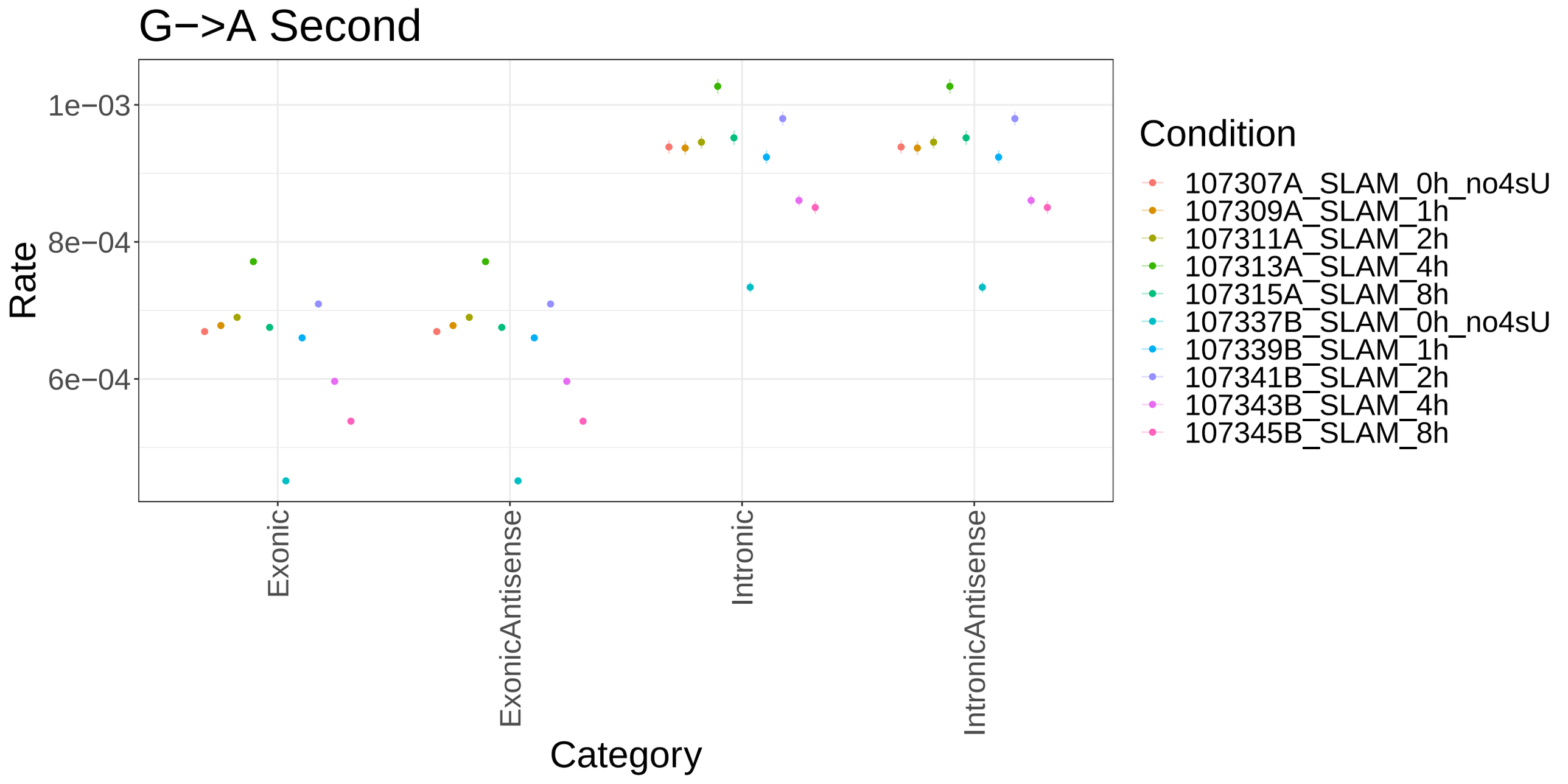
107343B_SLAM_4h
107345B_SLAM_8h


G−>A Second
1e−03
8e−04
6e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
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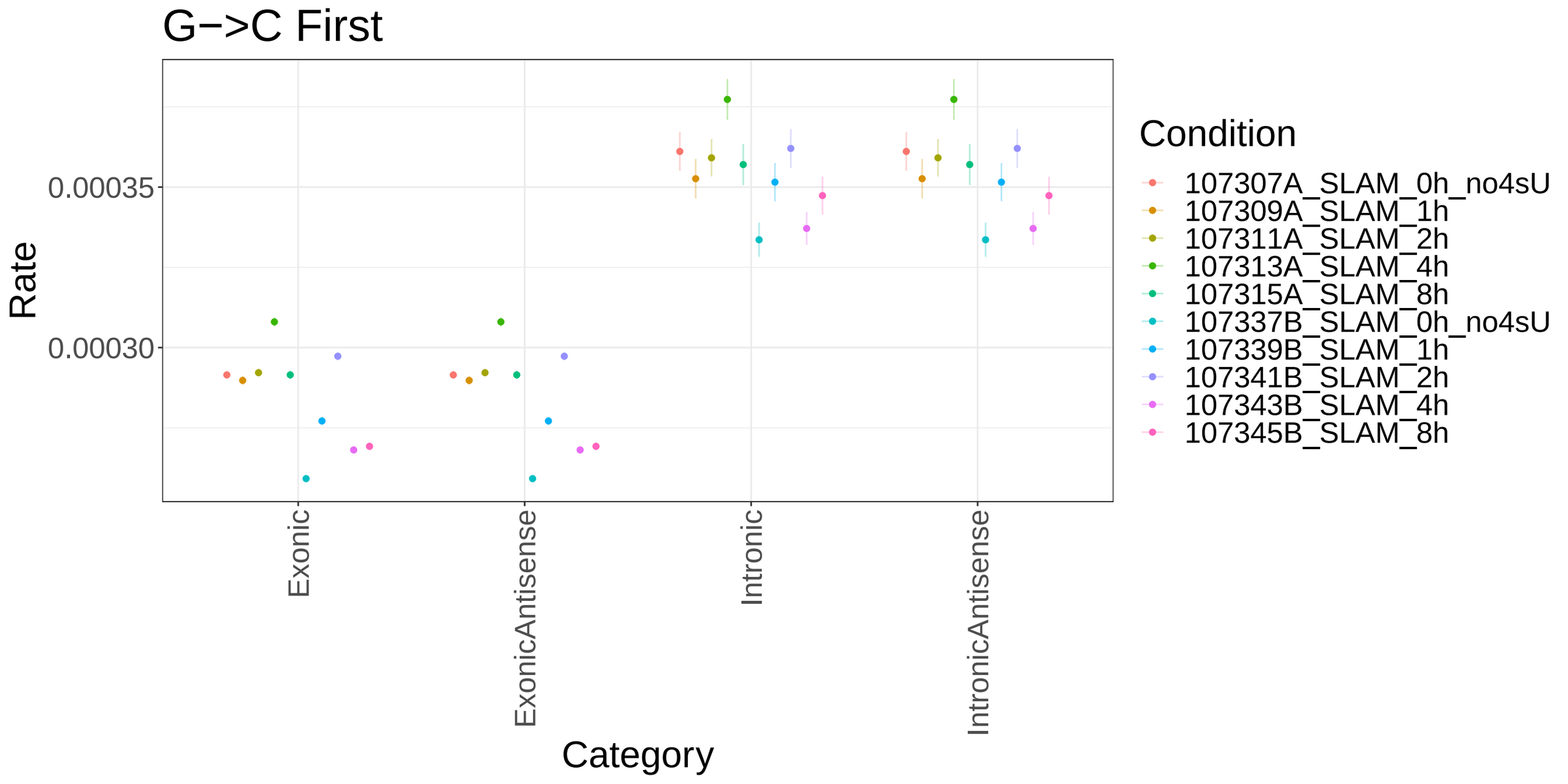
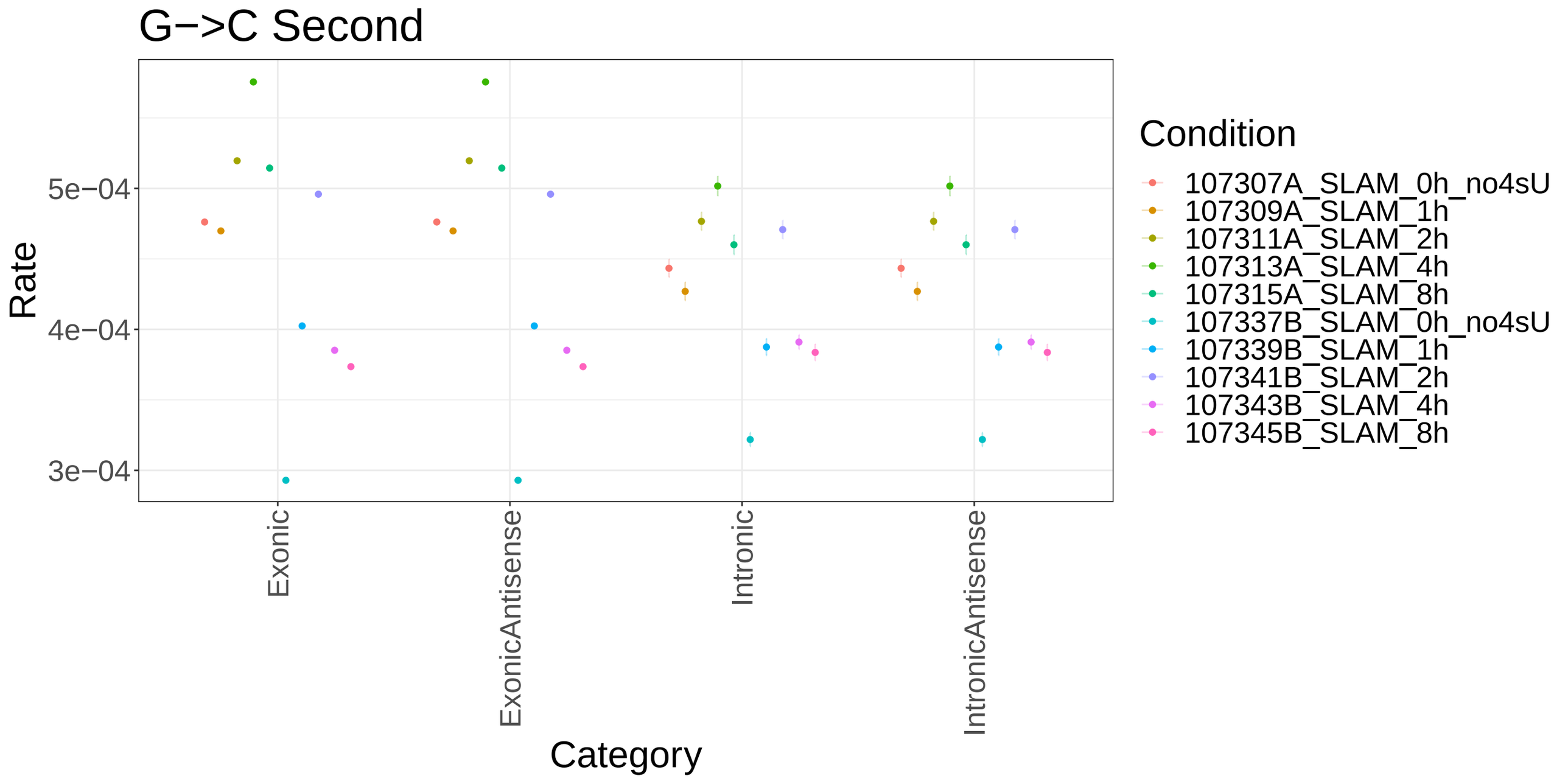
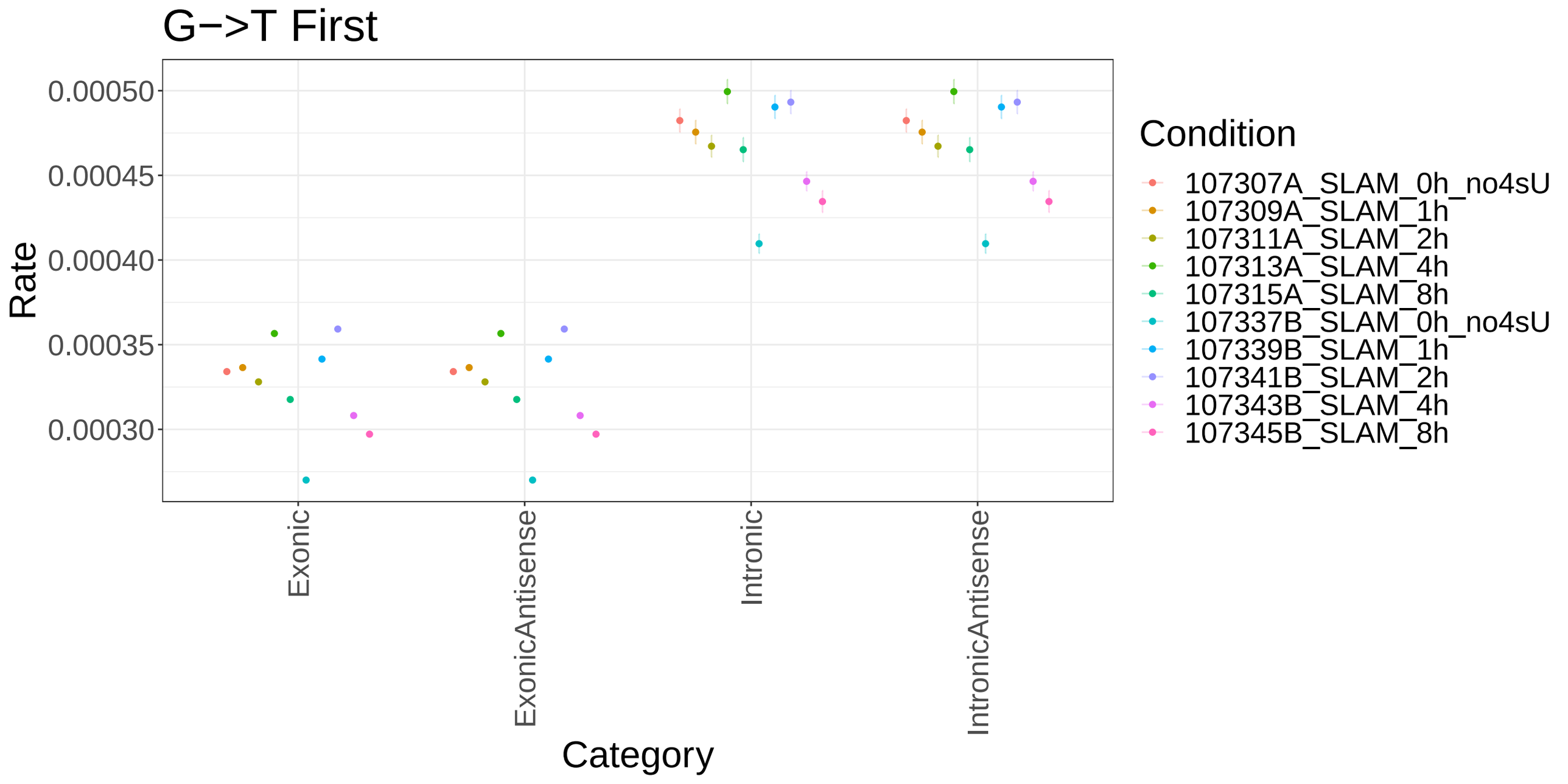
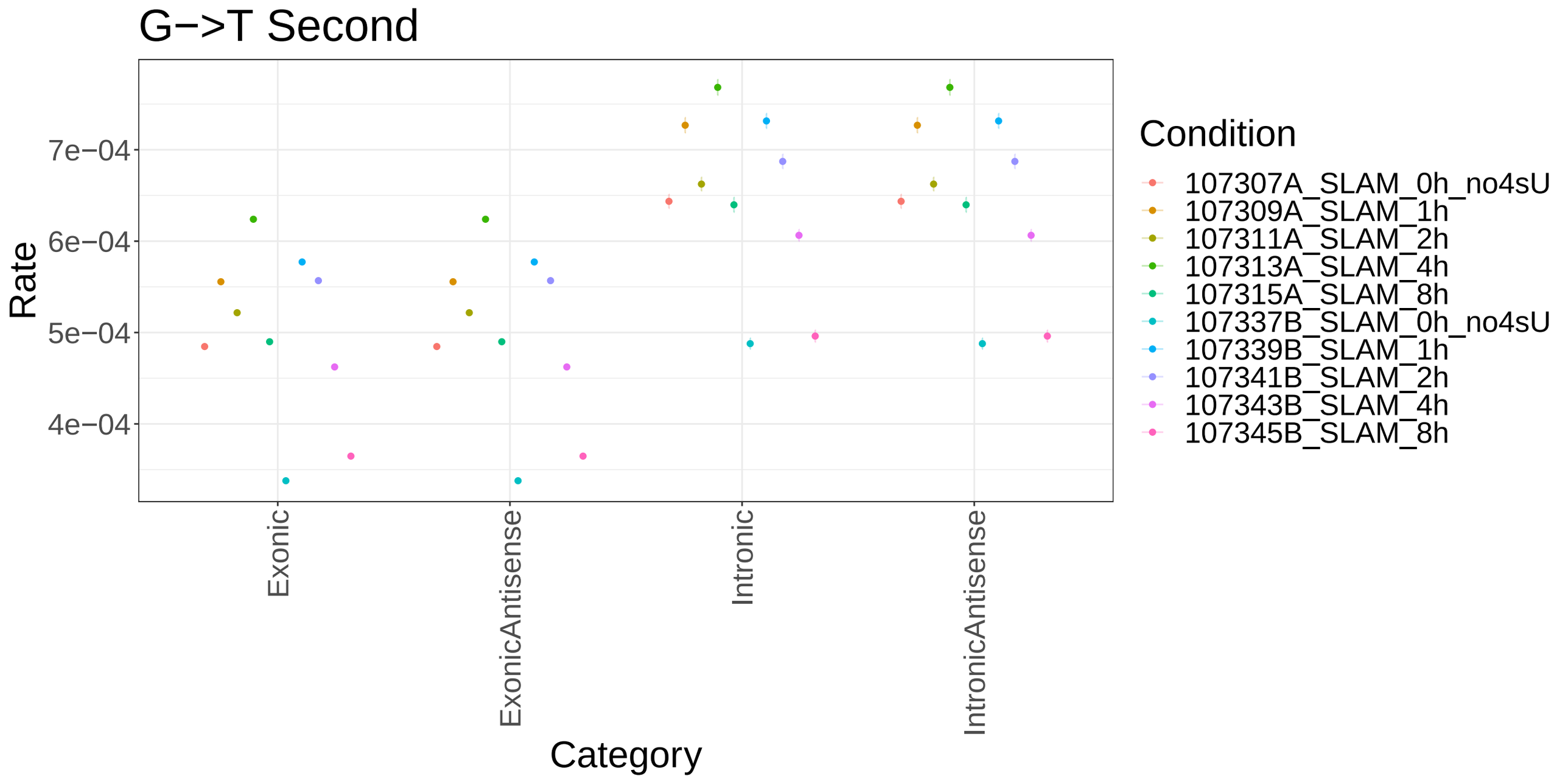
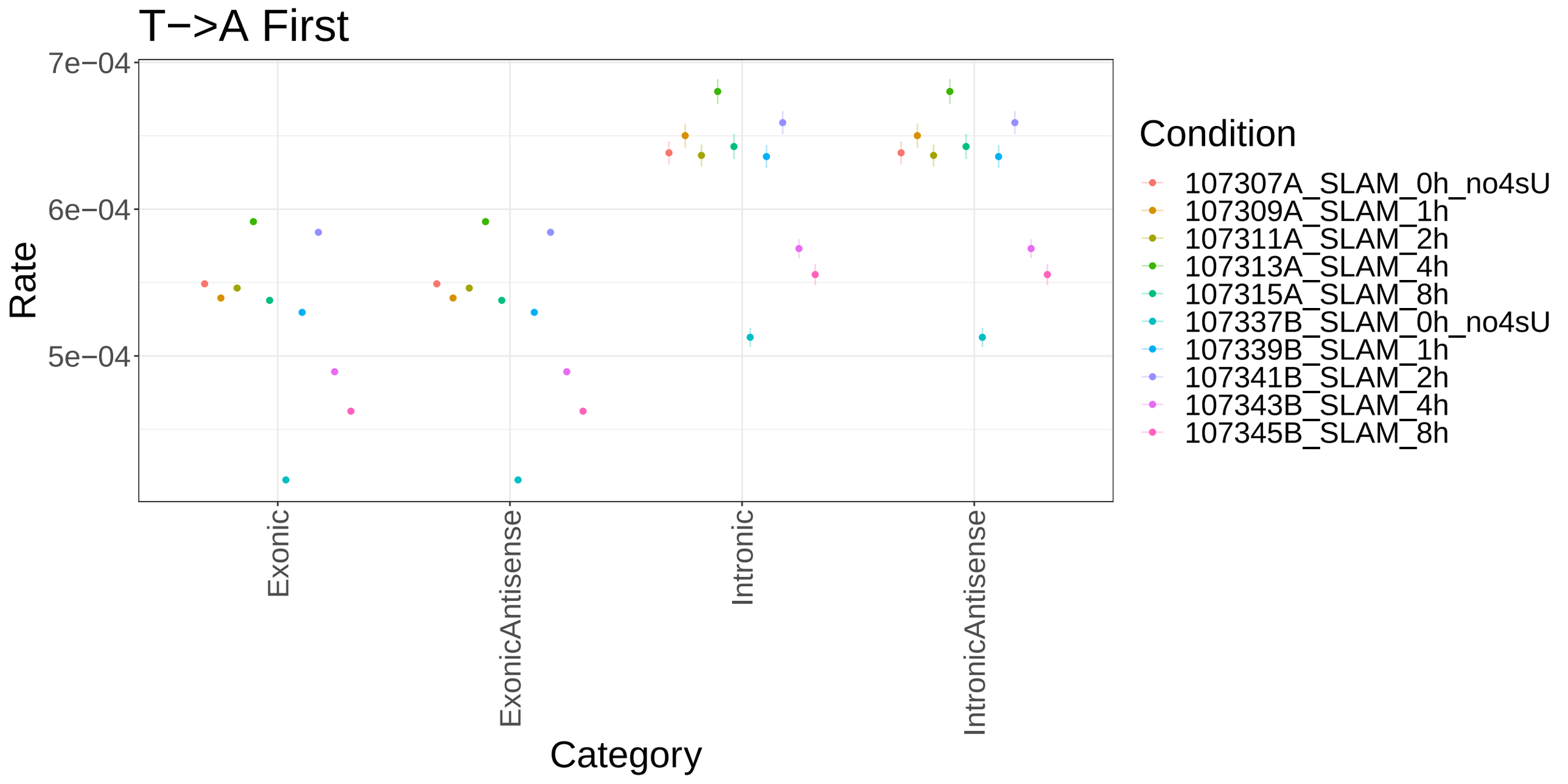
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

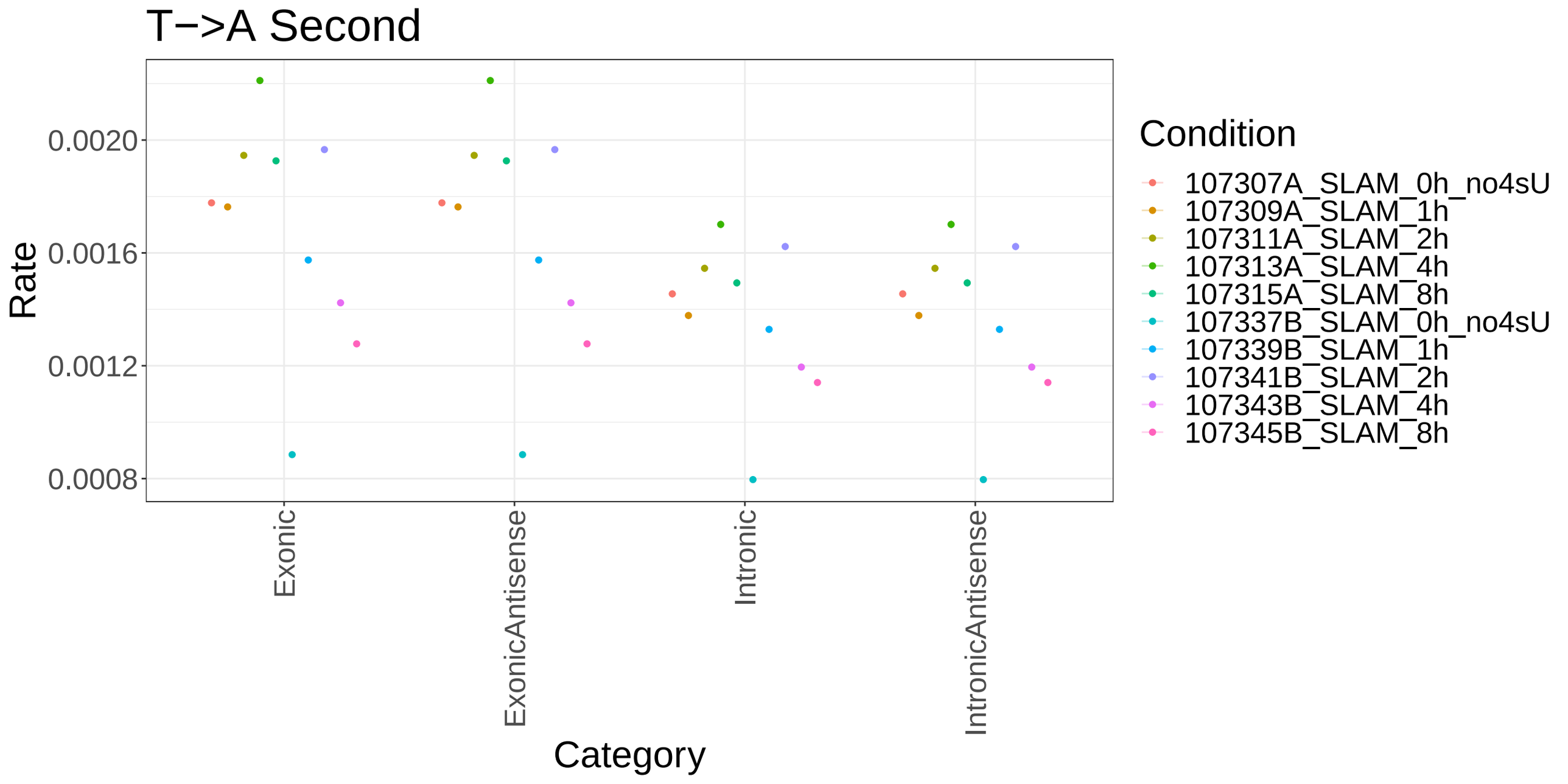

G−>C First
Rate
0.00035
0.00030
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

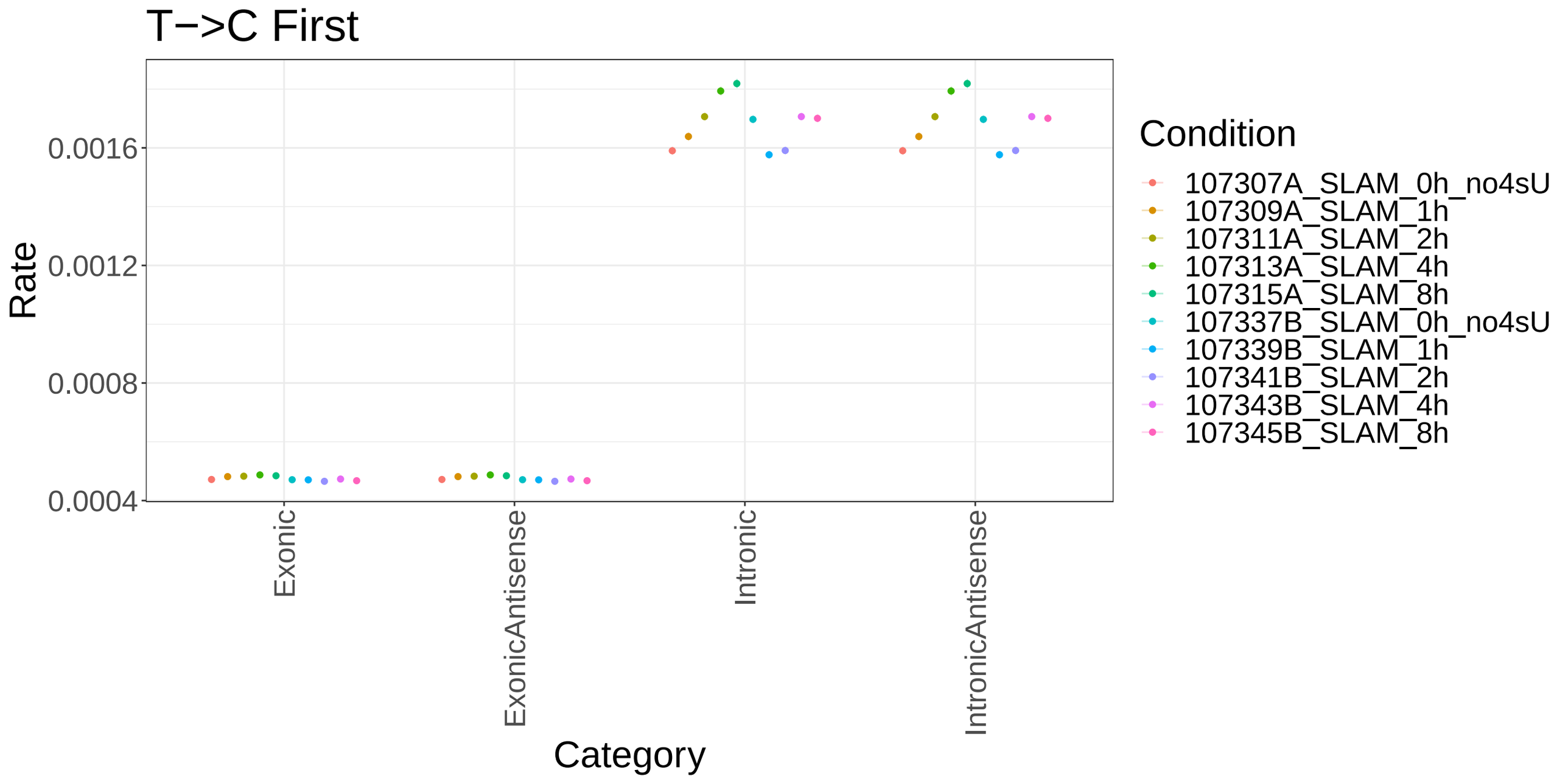

G−>C Second
Rate
5e−04
4e−04
3e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

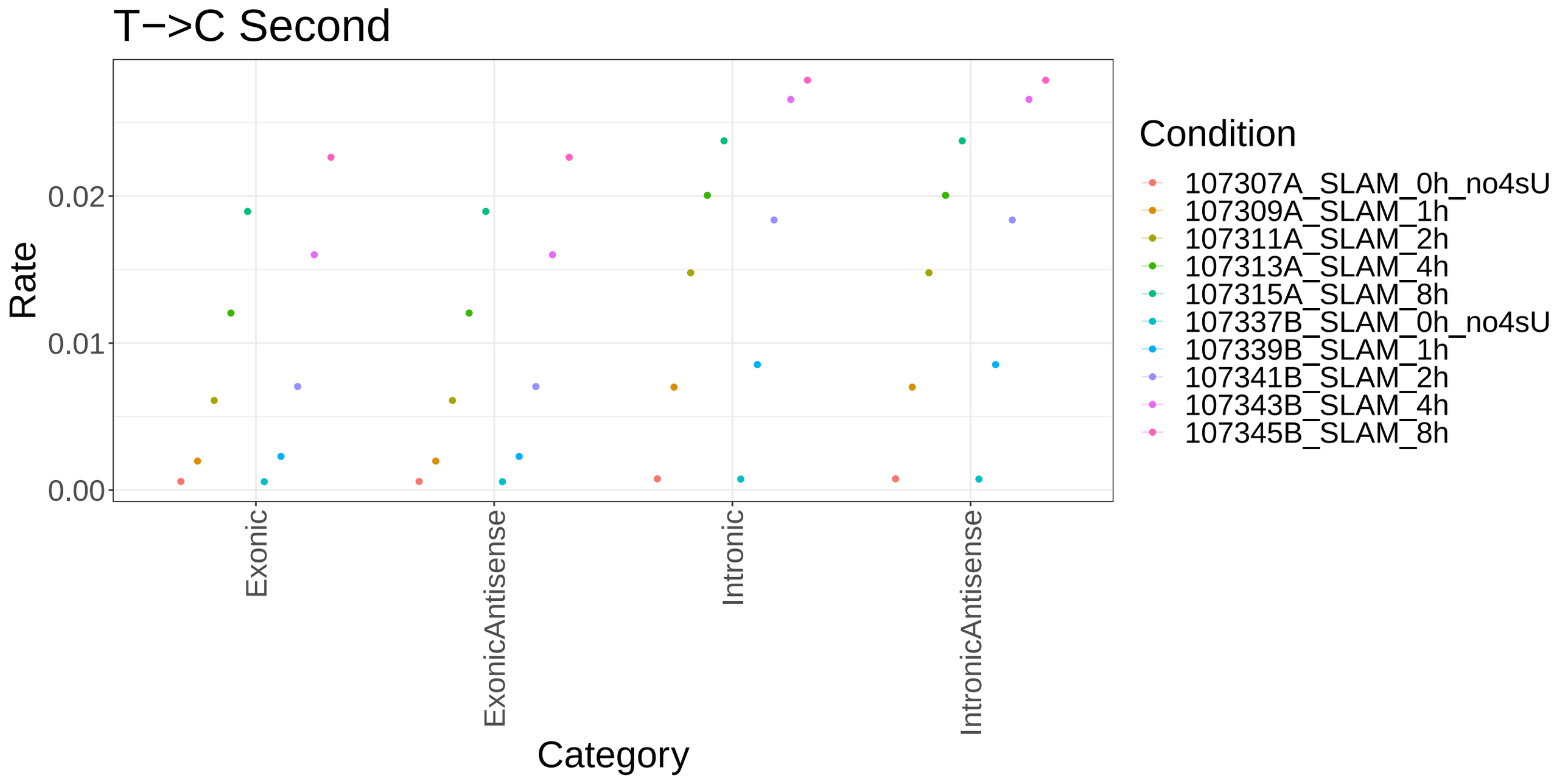

G−>T First
Rate
0.00050
0.00045
0.00040
0.00035
0.00030
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

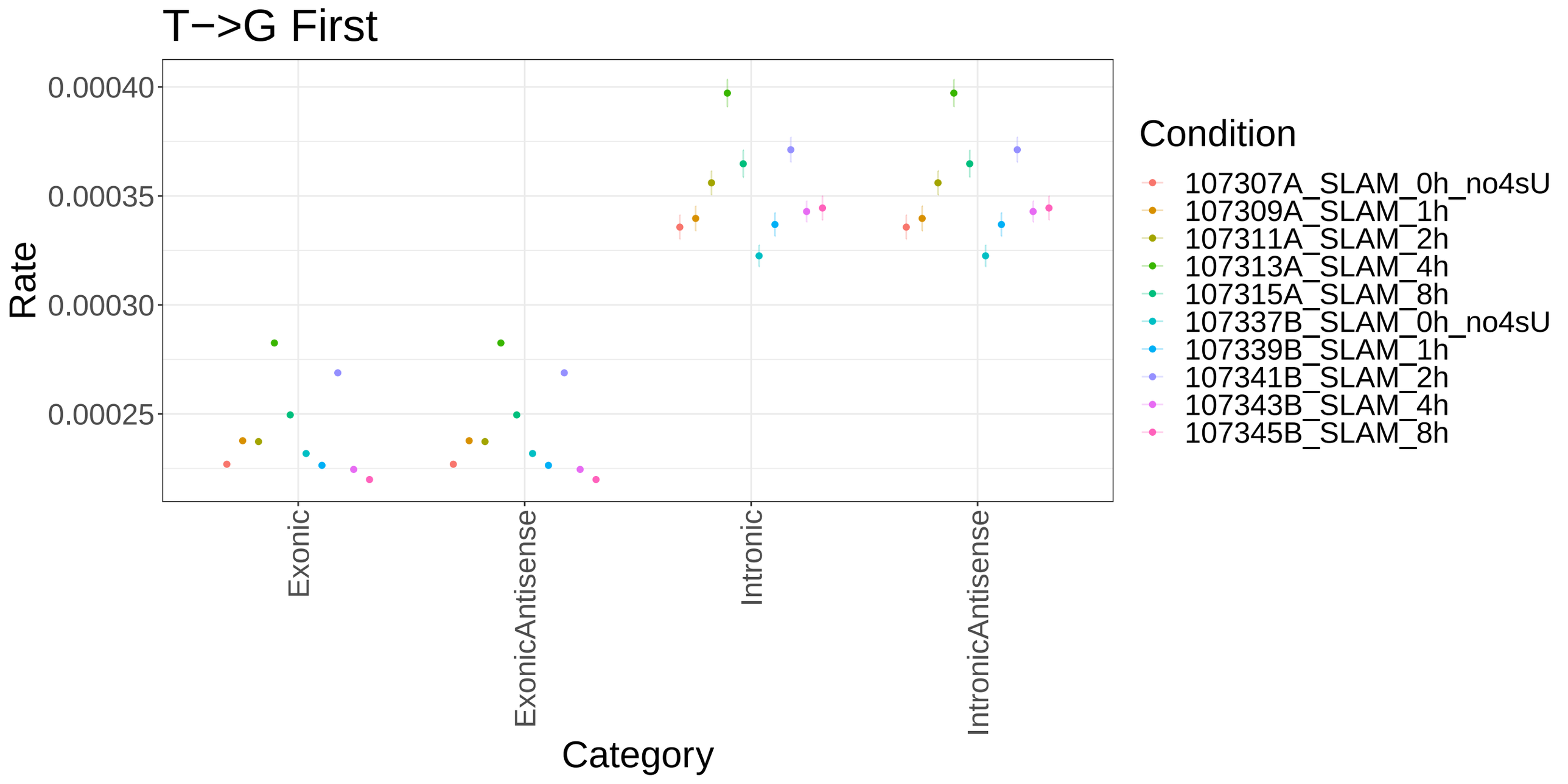

G−>T Second
Rate
7e−04
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

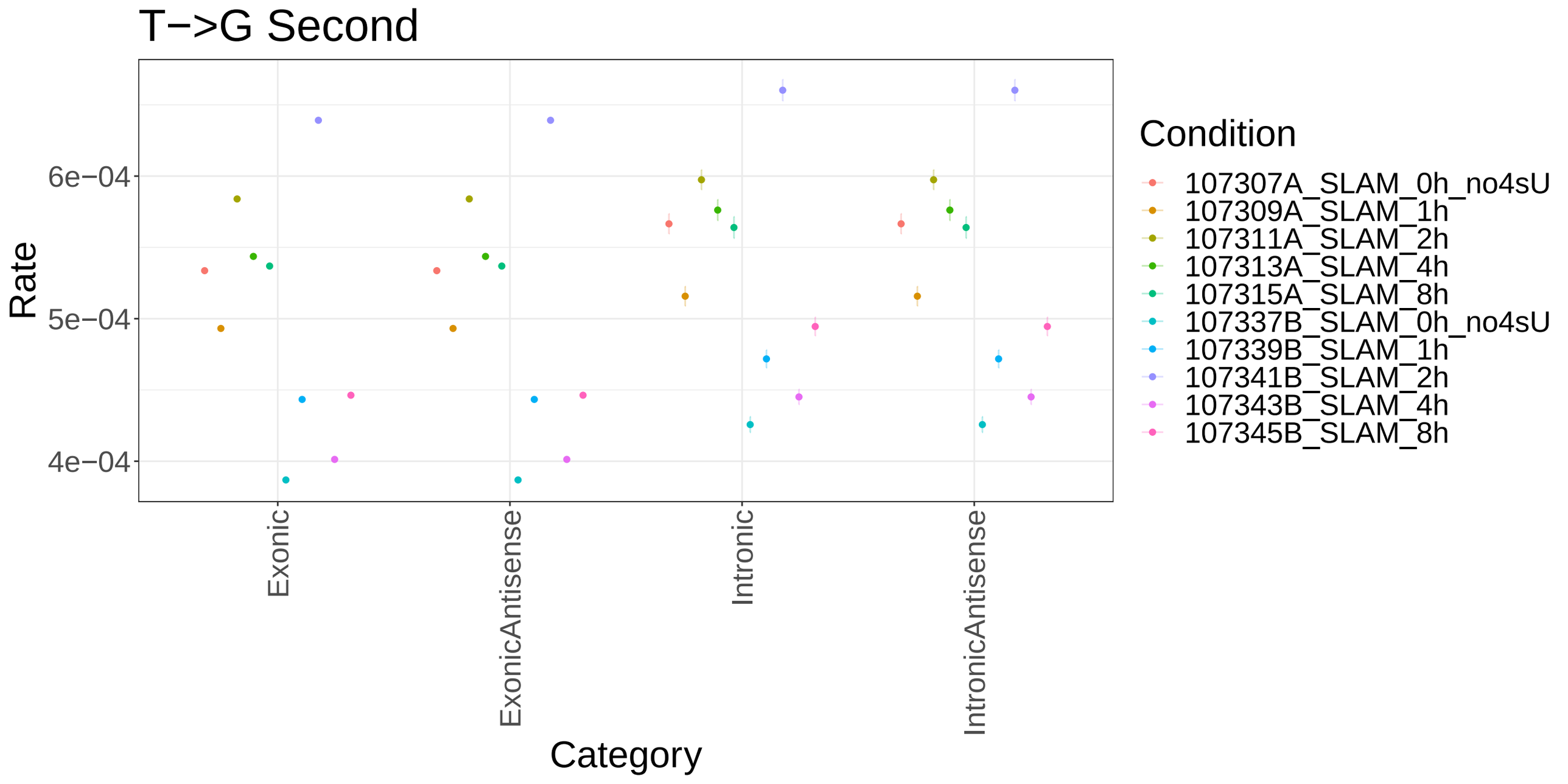

T−>A First
7e−04
6e−04
5e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

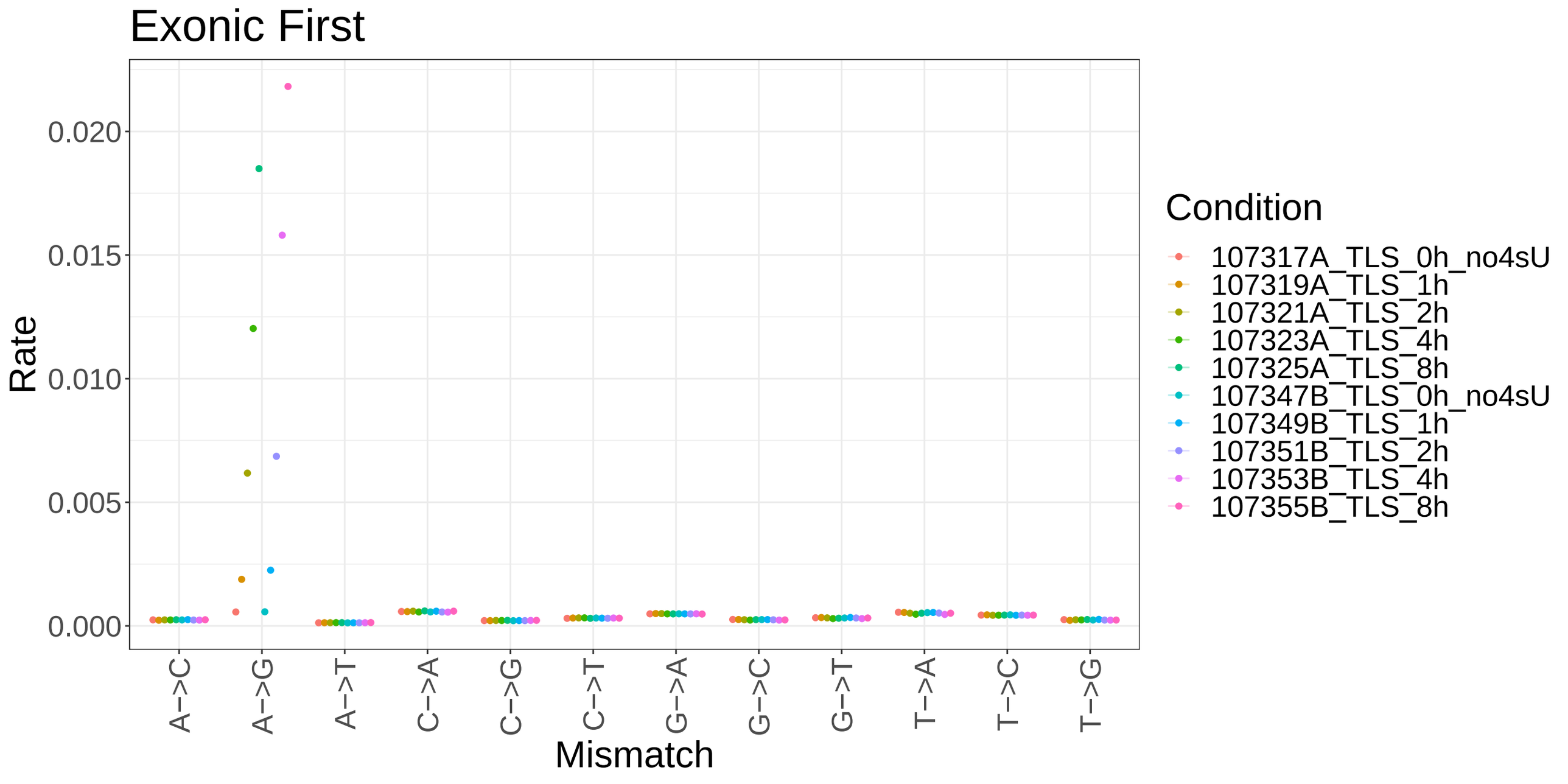

T−>A Second
Rate
0.0020
0.0016
0.0012
0.0008
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

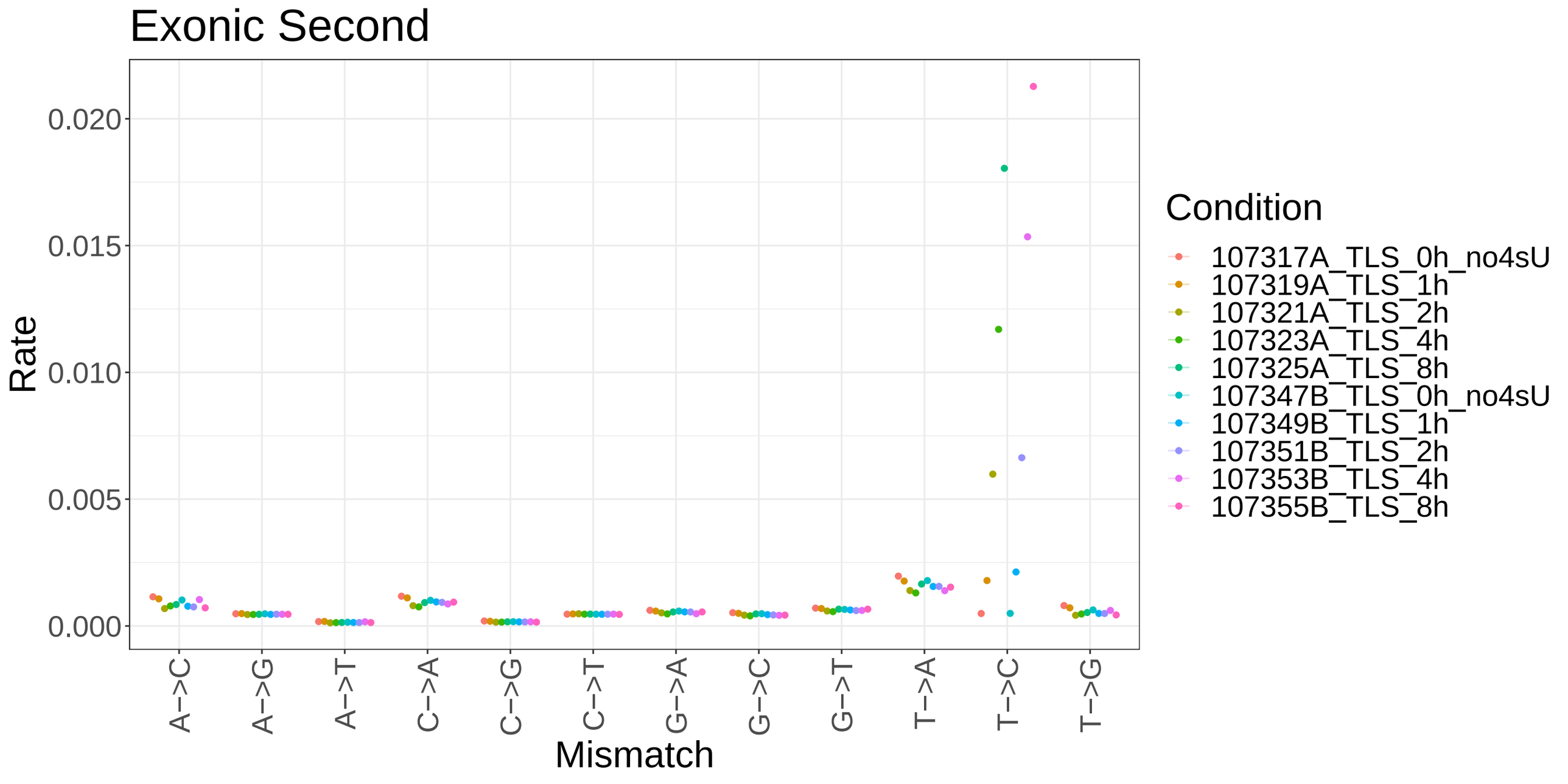

T−>C First
Rate
0.0016
0.0012
0.0008
0.0004
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

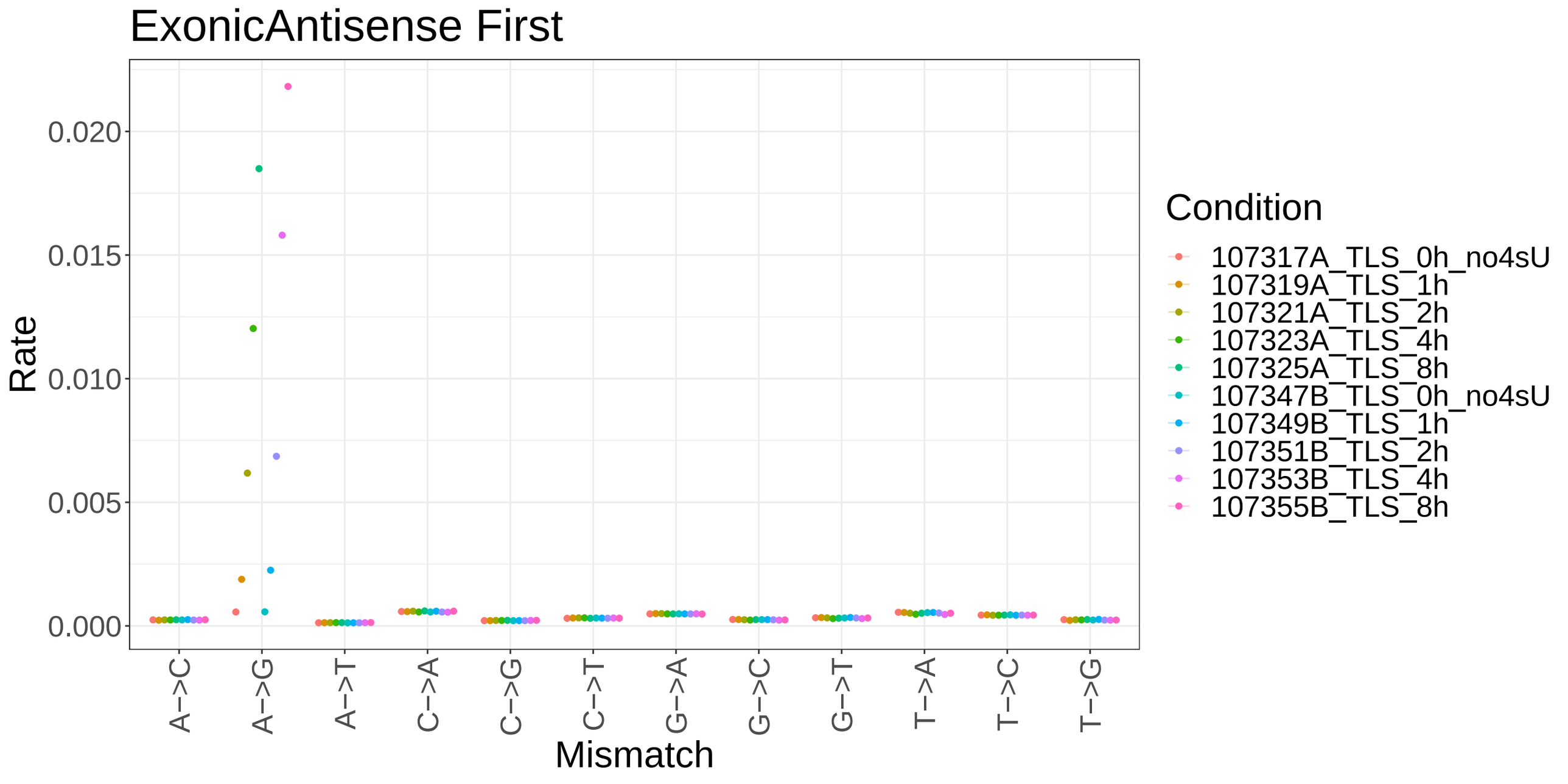

T−>C Second
Rate
0.02
0.01
0.00
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

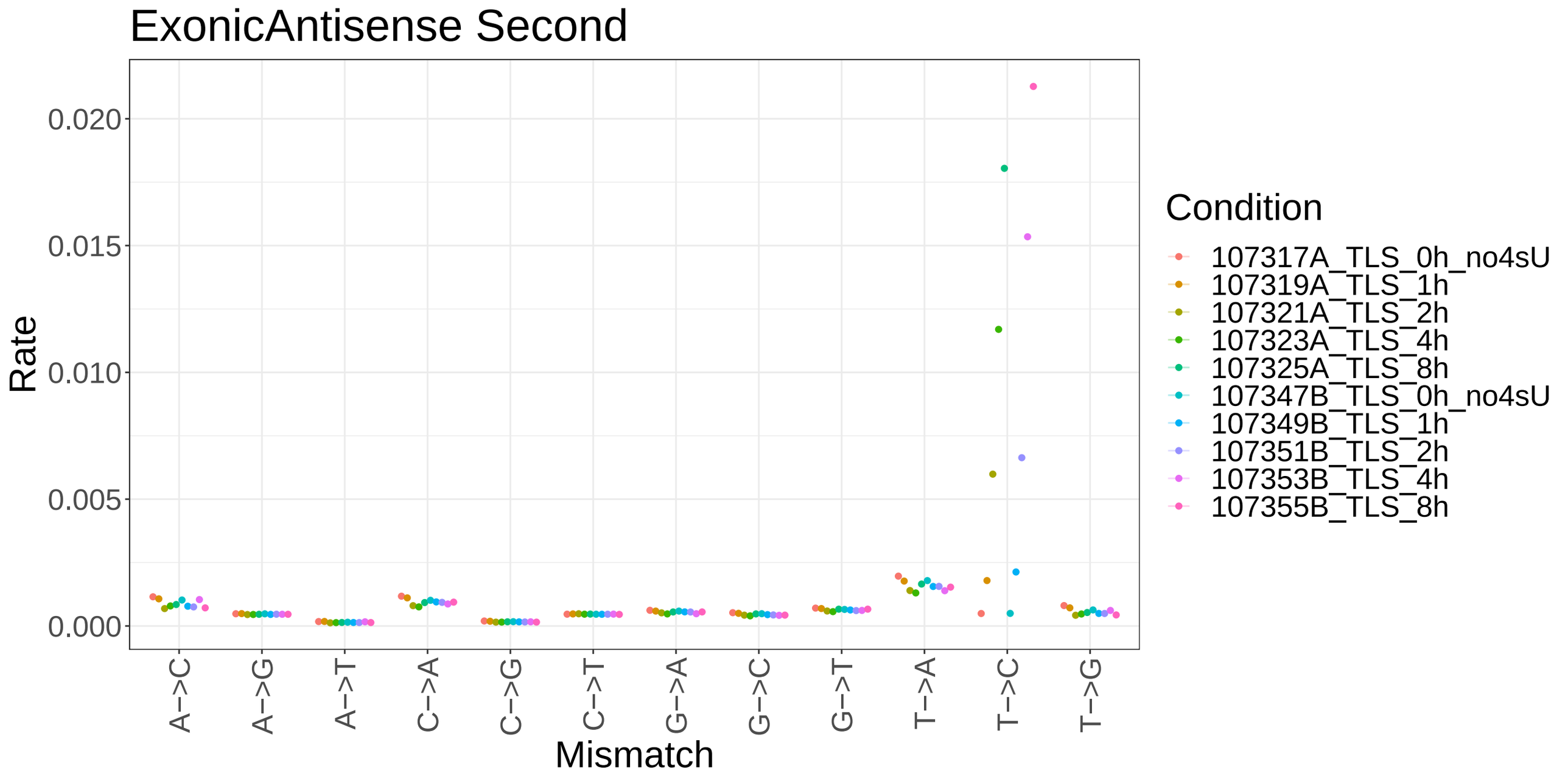

T−>G First
0.00040
0.00035
0.00030
0.00025
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

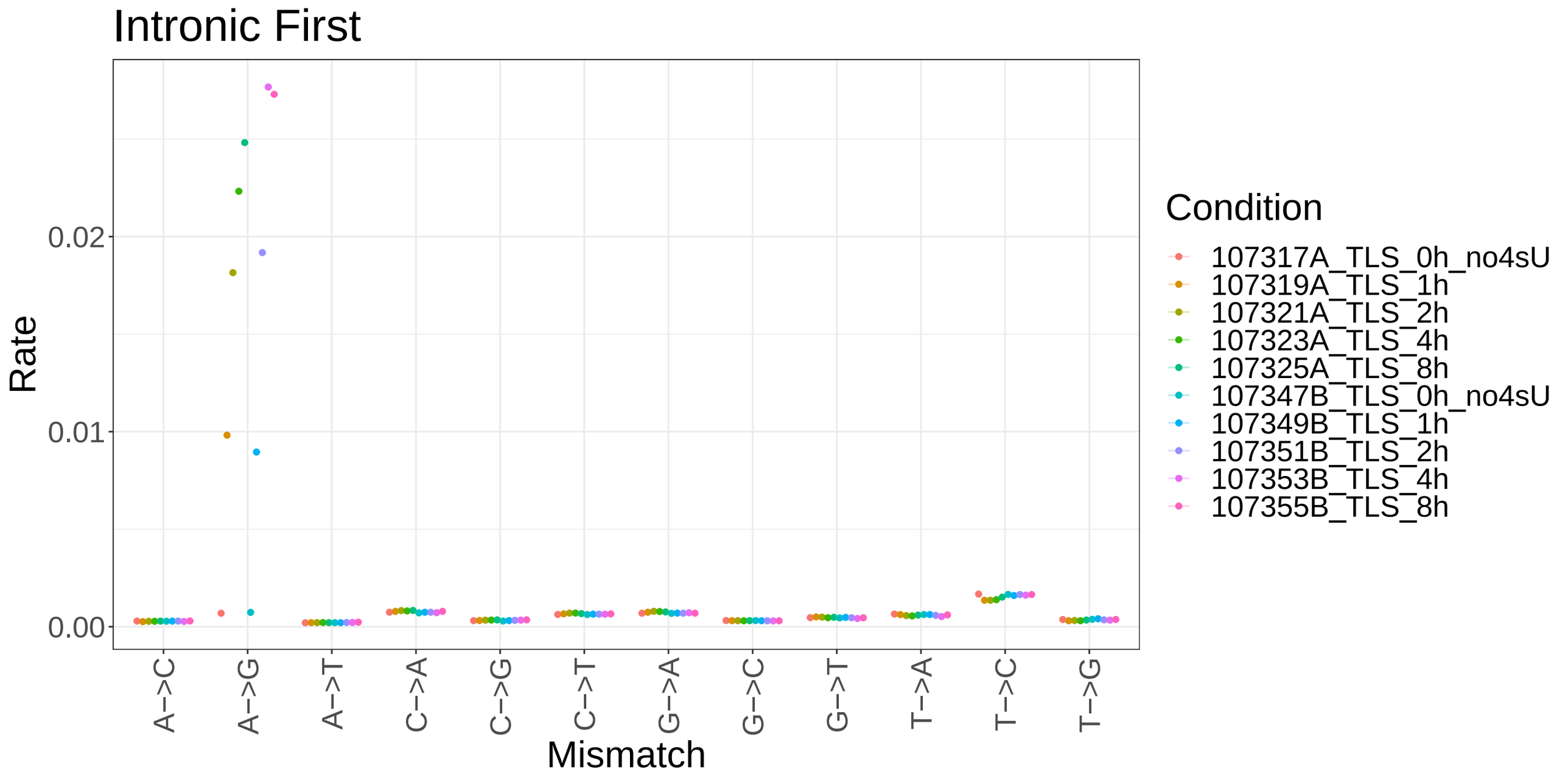

T−>G Second
Rate
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107307A_SLAM_0h_no4sU
107309A_SLAM_1h
107311A_SLAM_2h
107313A_SLAM_4h
107315A_SLAM_8h
107337B_SLAM_0h_no4sU
107339B_SLAM_1h
107341B_SLAM_2h
107343B_SLAM_4h
107345B_SLAM_8h

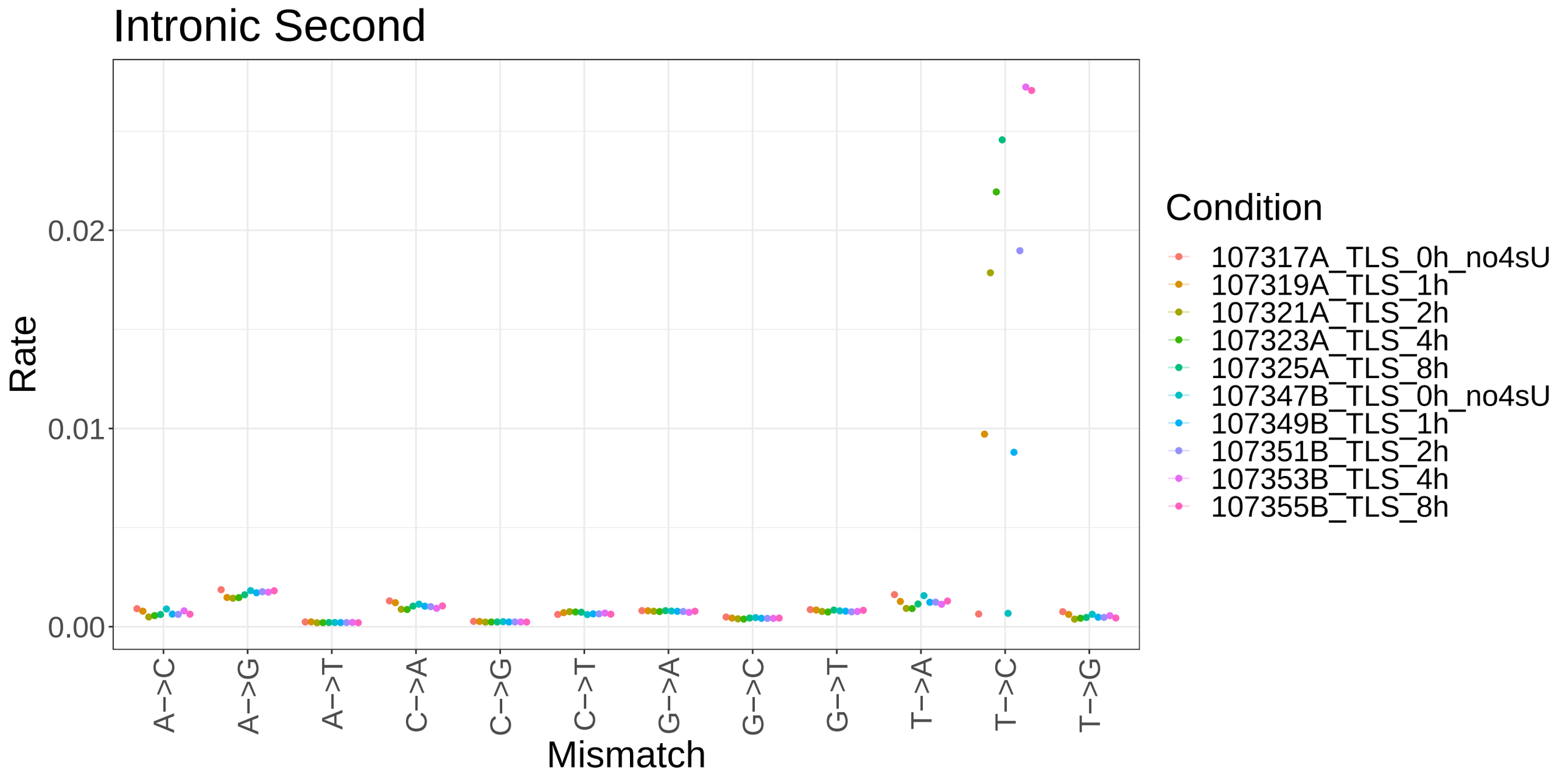

Exonic First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

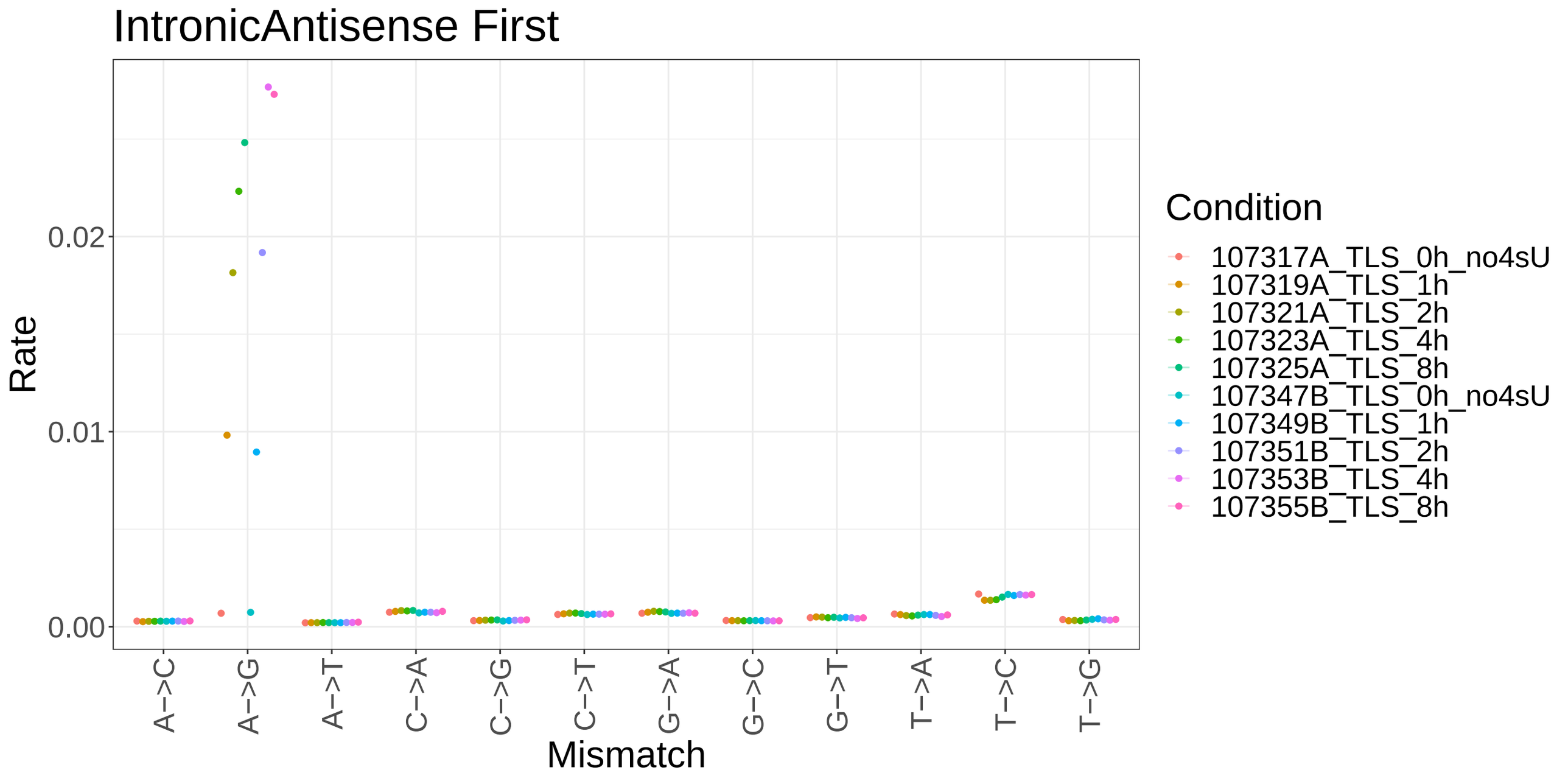

Exonic Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

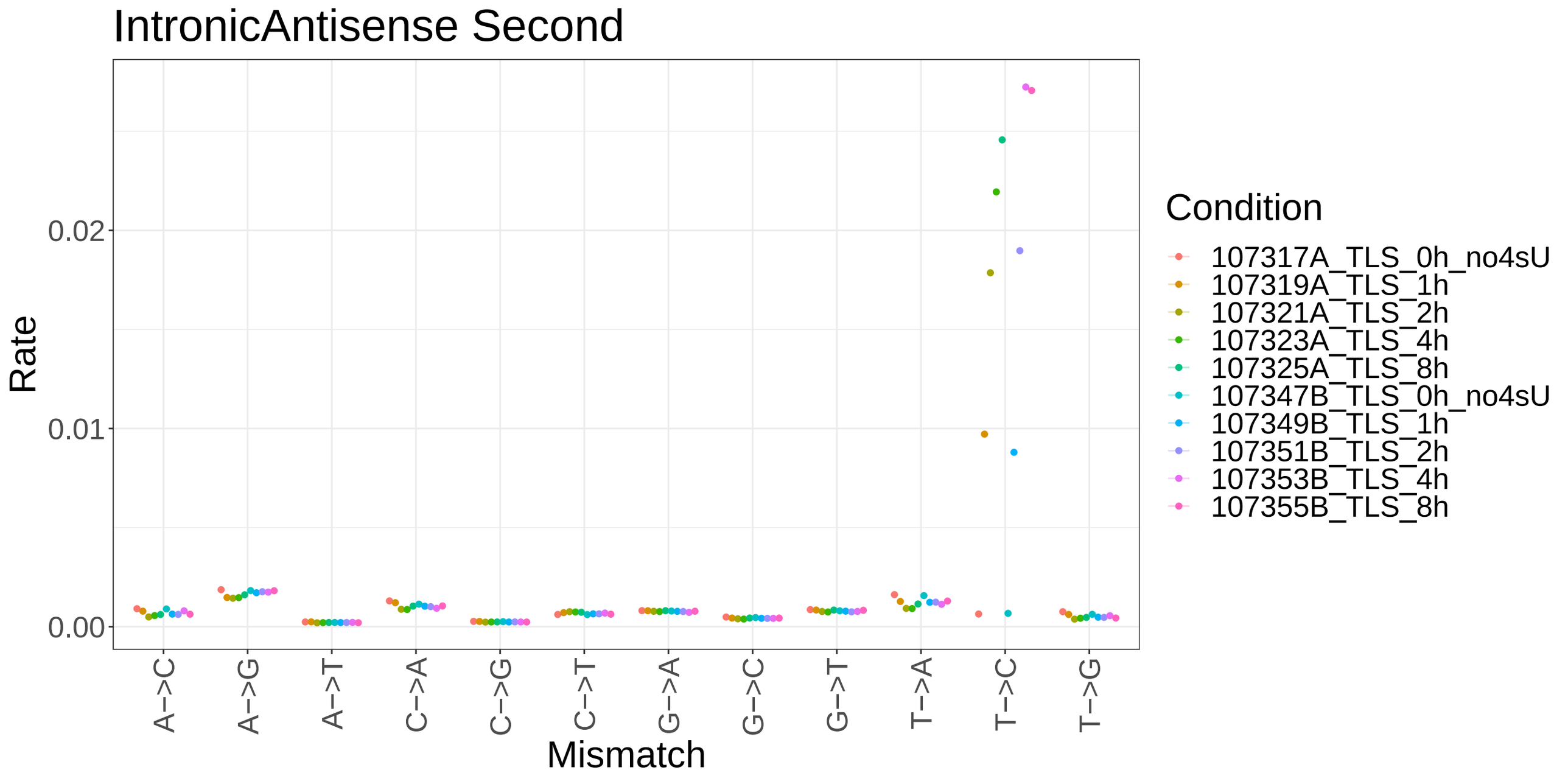

ExonicAntisense First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

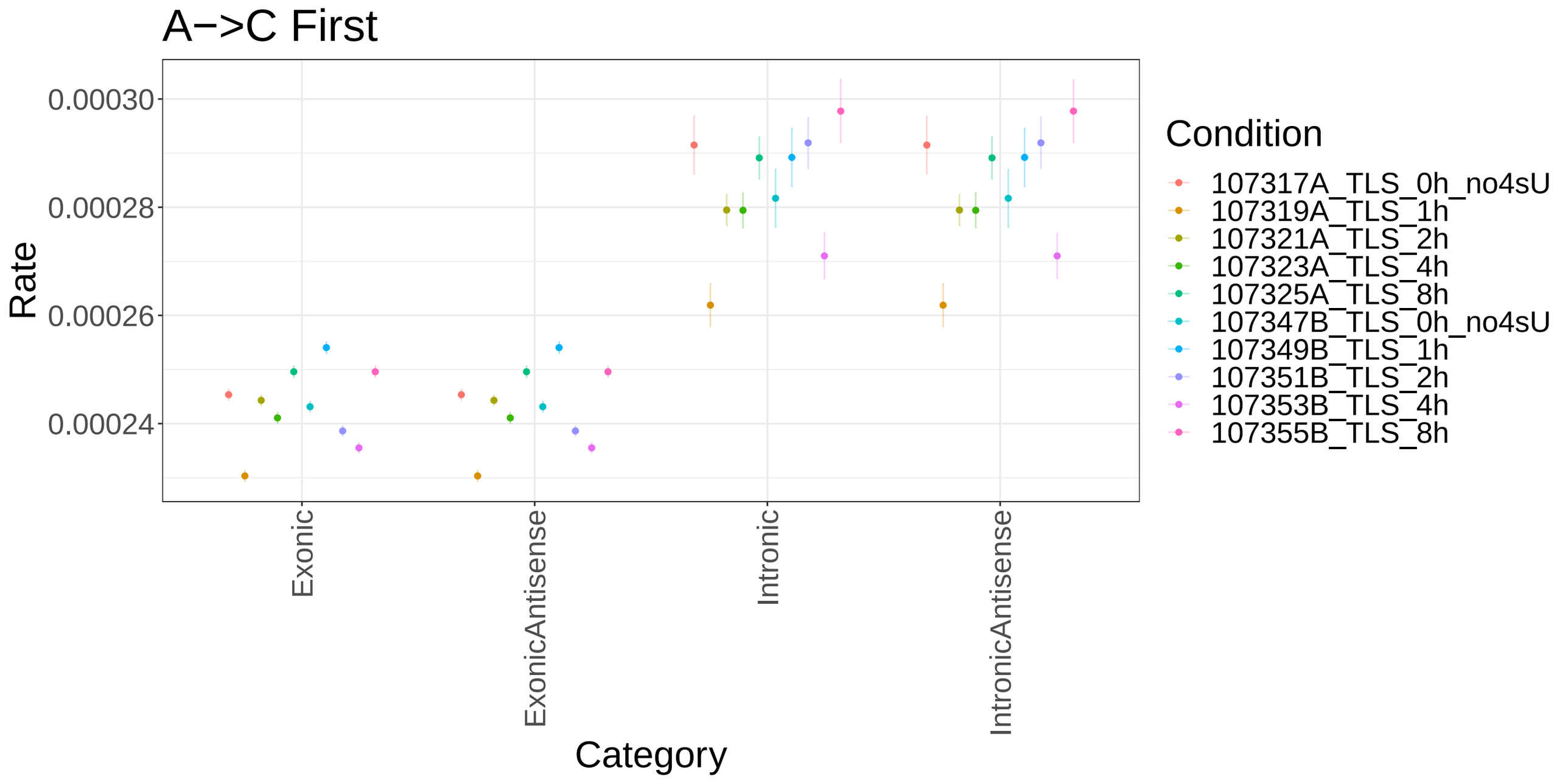

ExonicAntisense Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

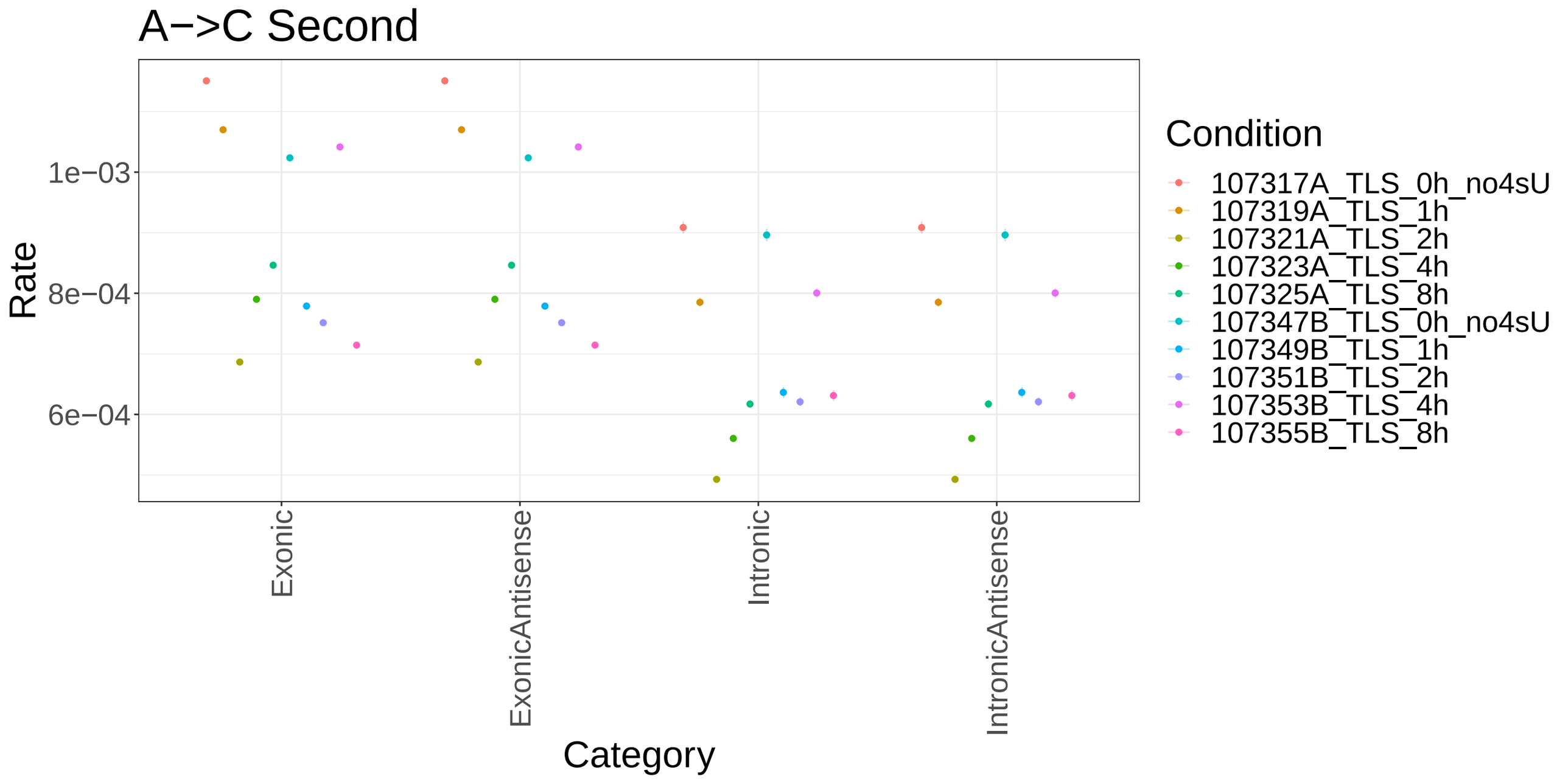

Intronic First
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

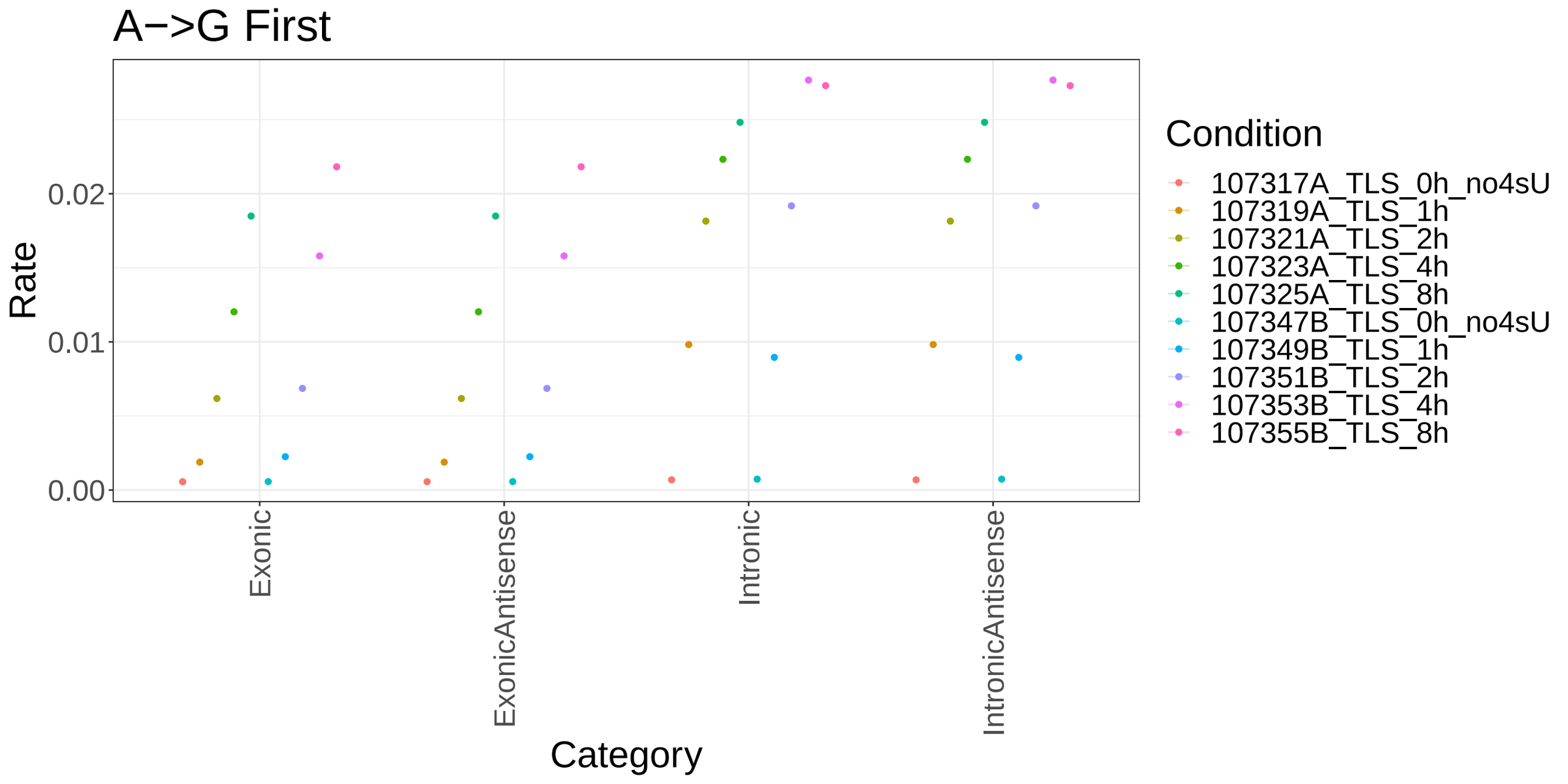

Intronic Second
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

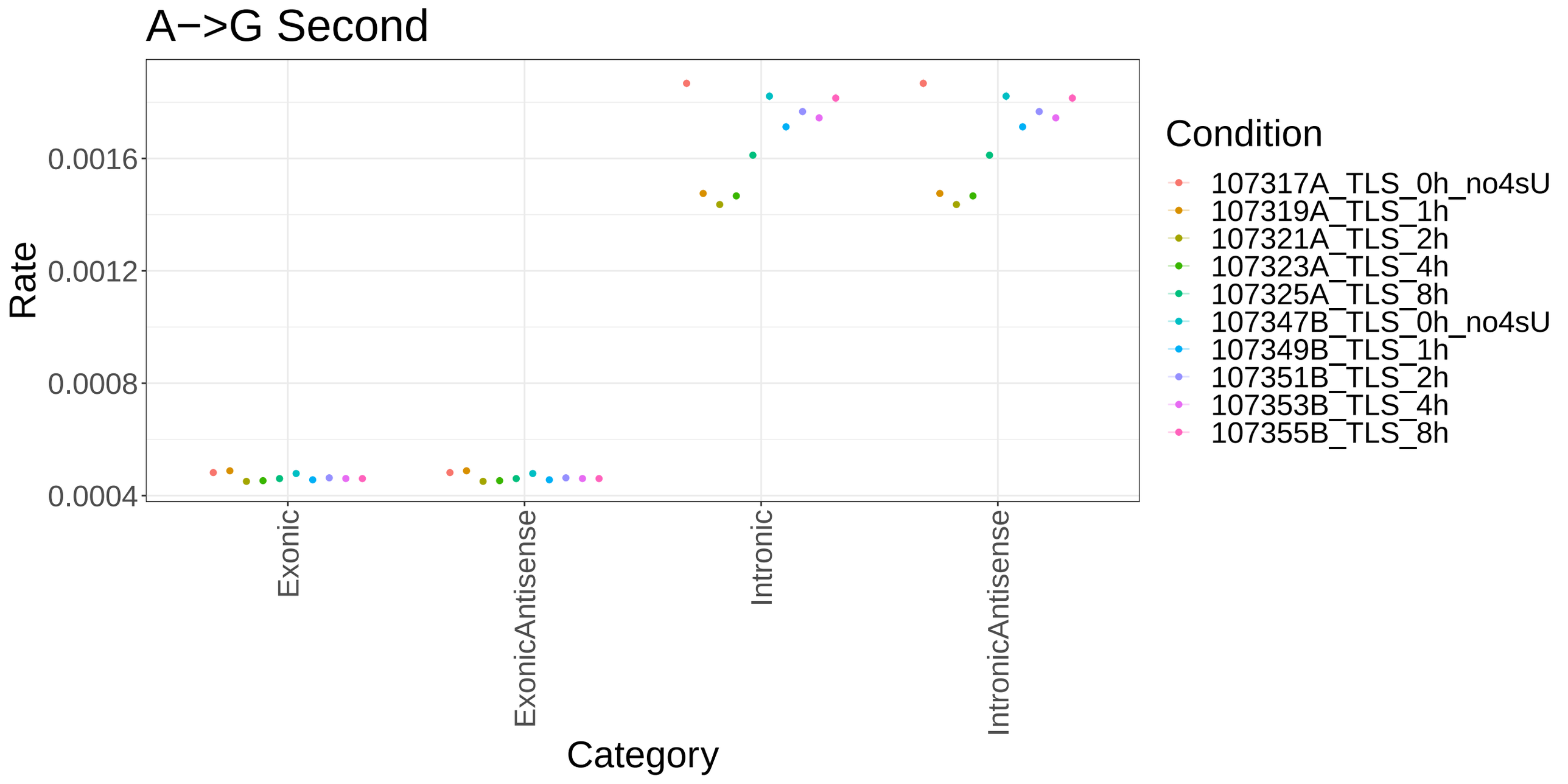

IntronicAntisense First
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

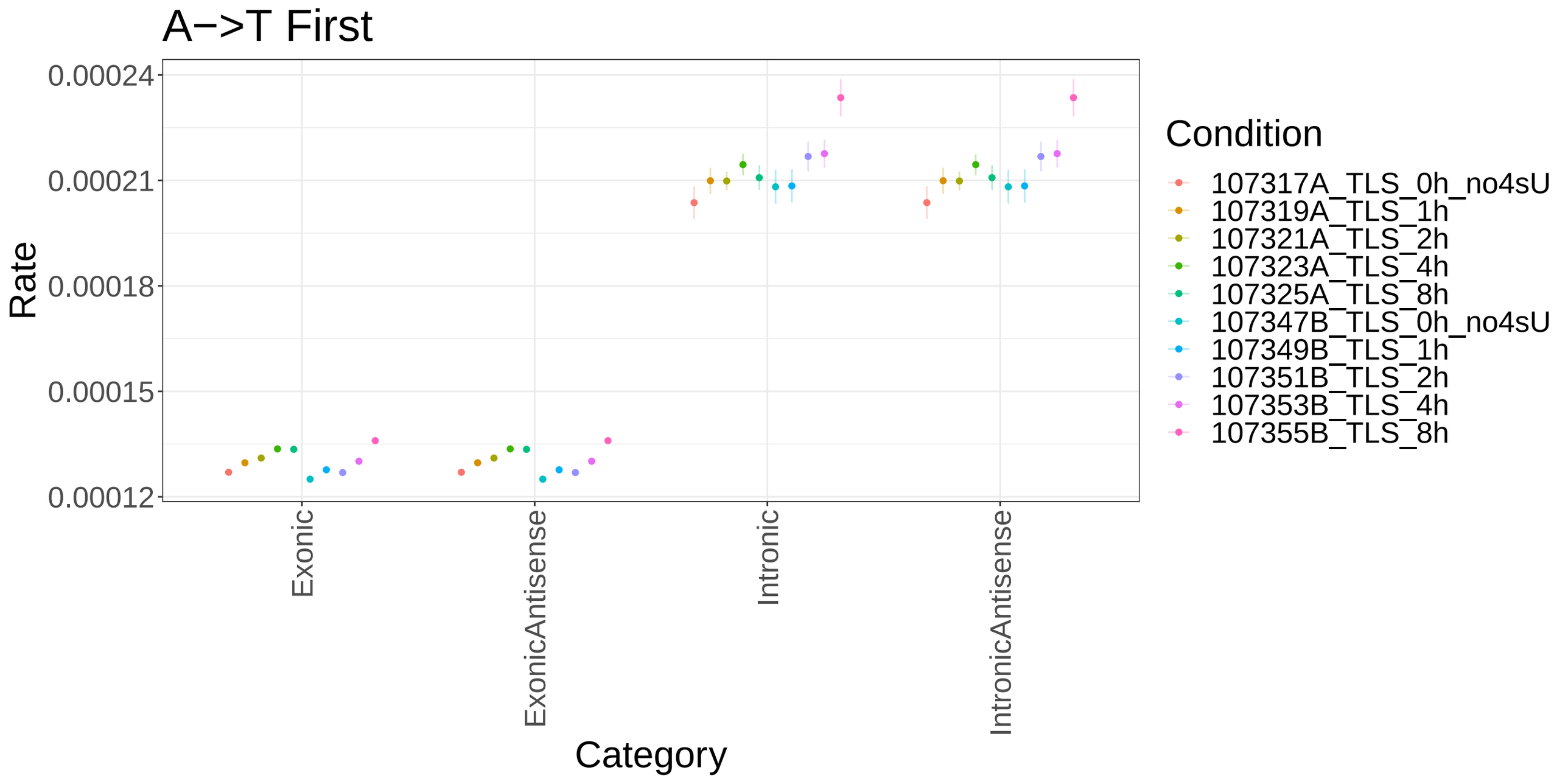

IntronicAntisense Second
Rate
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

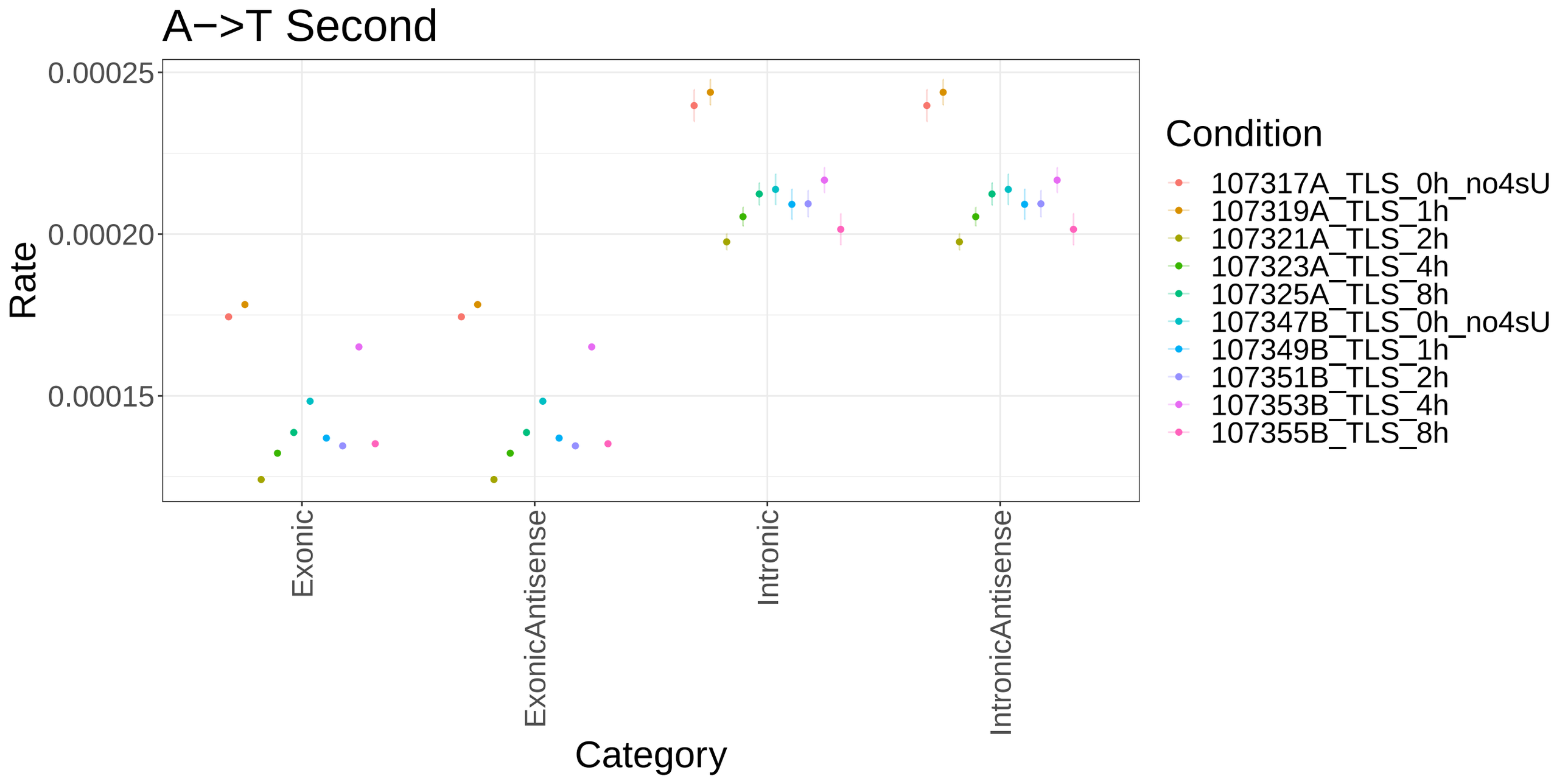

A−>C First
0.00030
0.00028
0.00026
0.00024
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

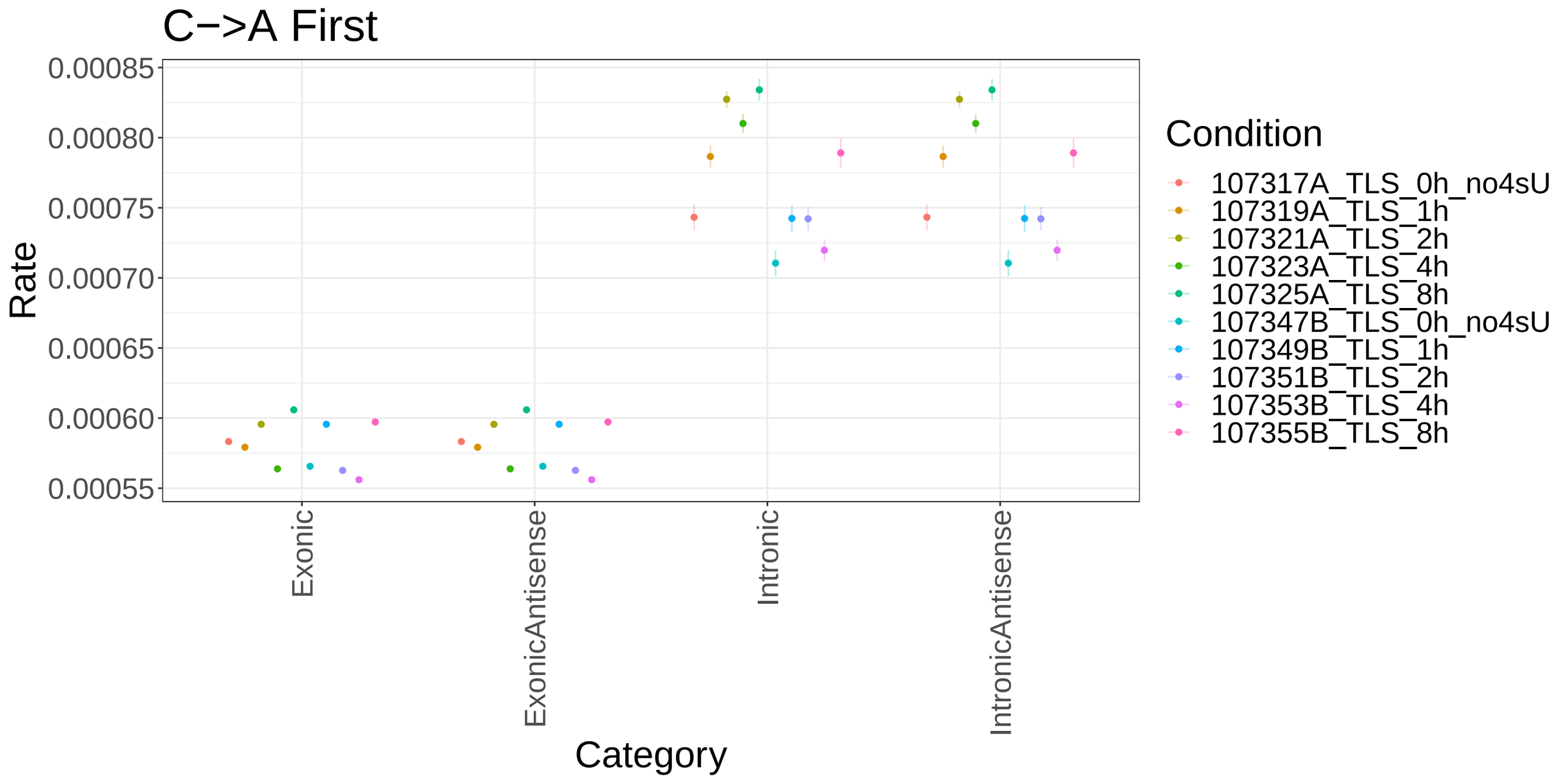

A−>C Second
Rate
1e−03
8e−04
6e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

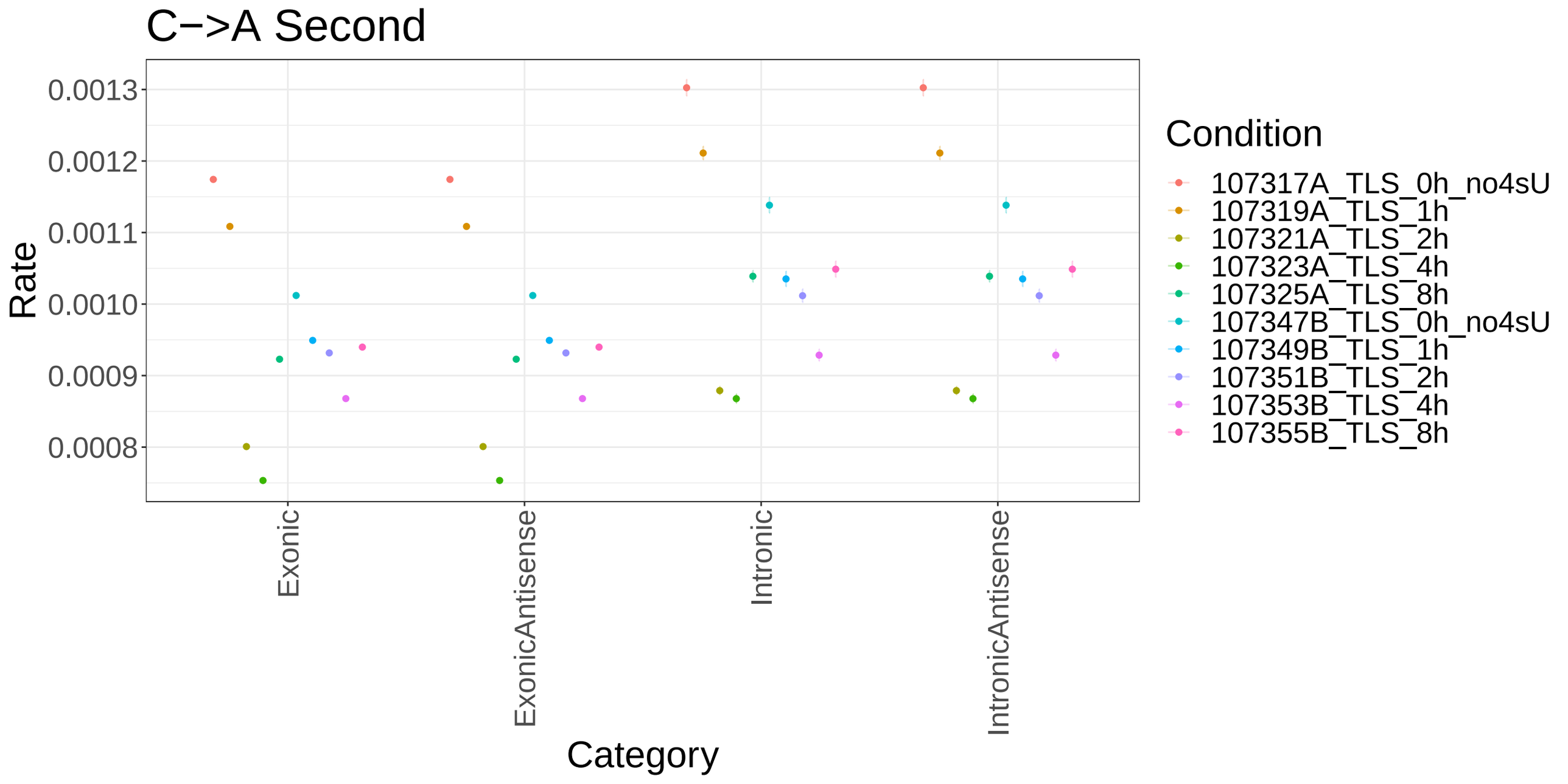

A−>G First
Rate
0.02
0.01
0.00
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

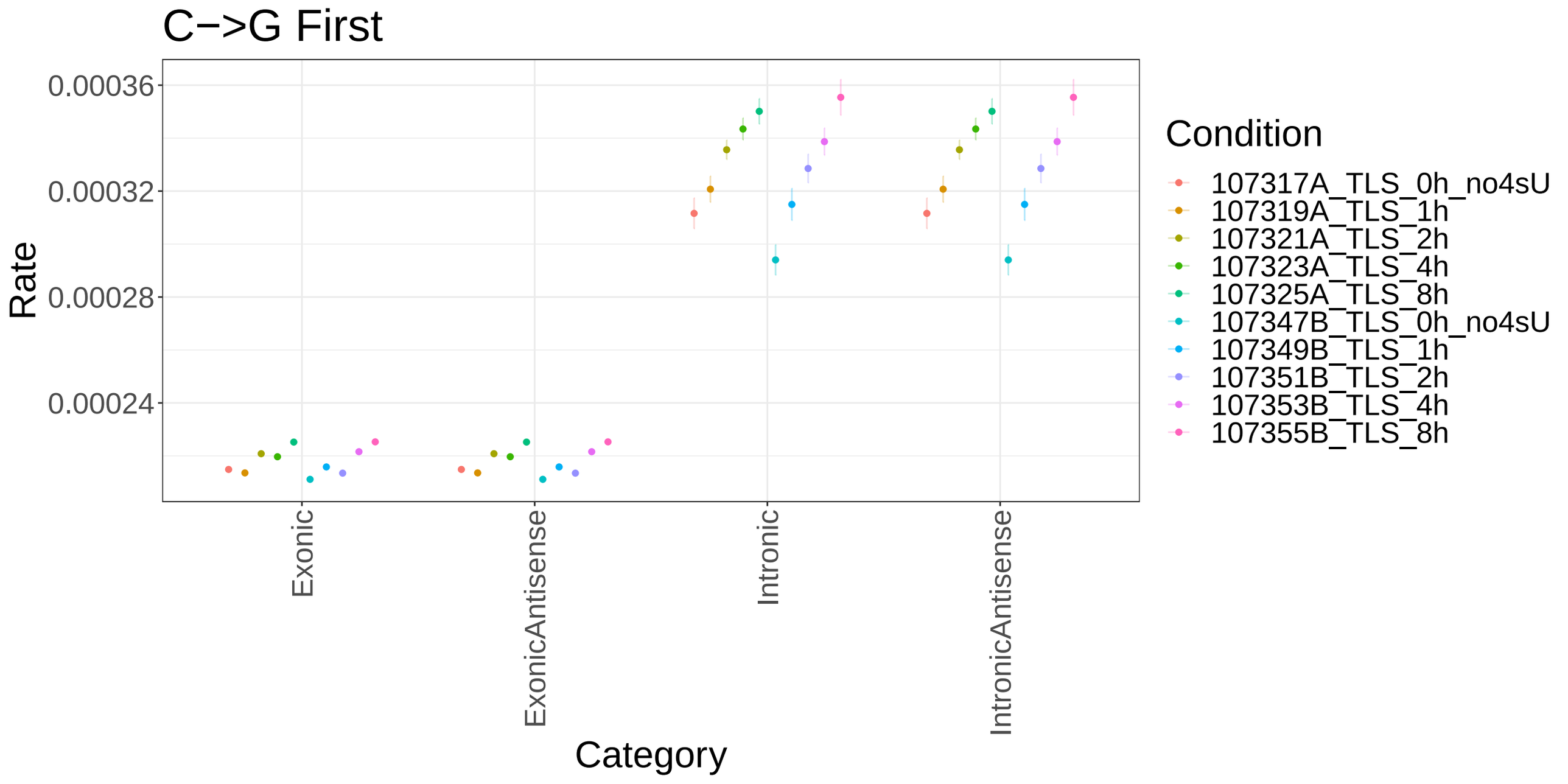

A−>G Second
Rate
0.0016
0.0012
0.0008
0.0004
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

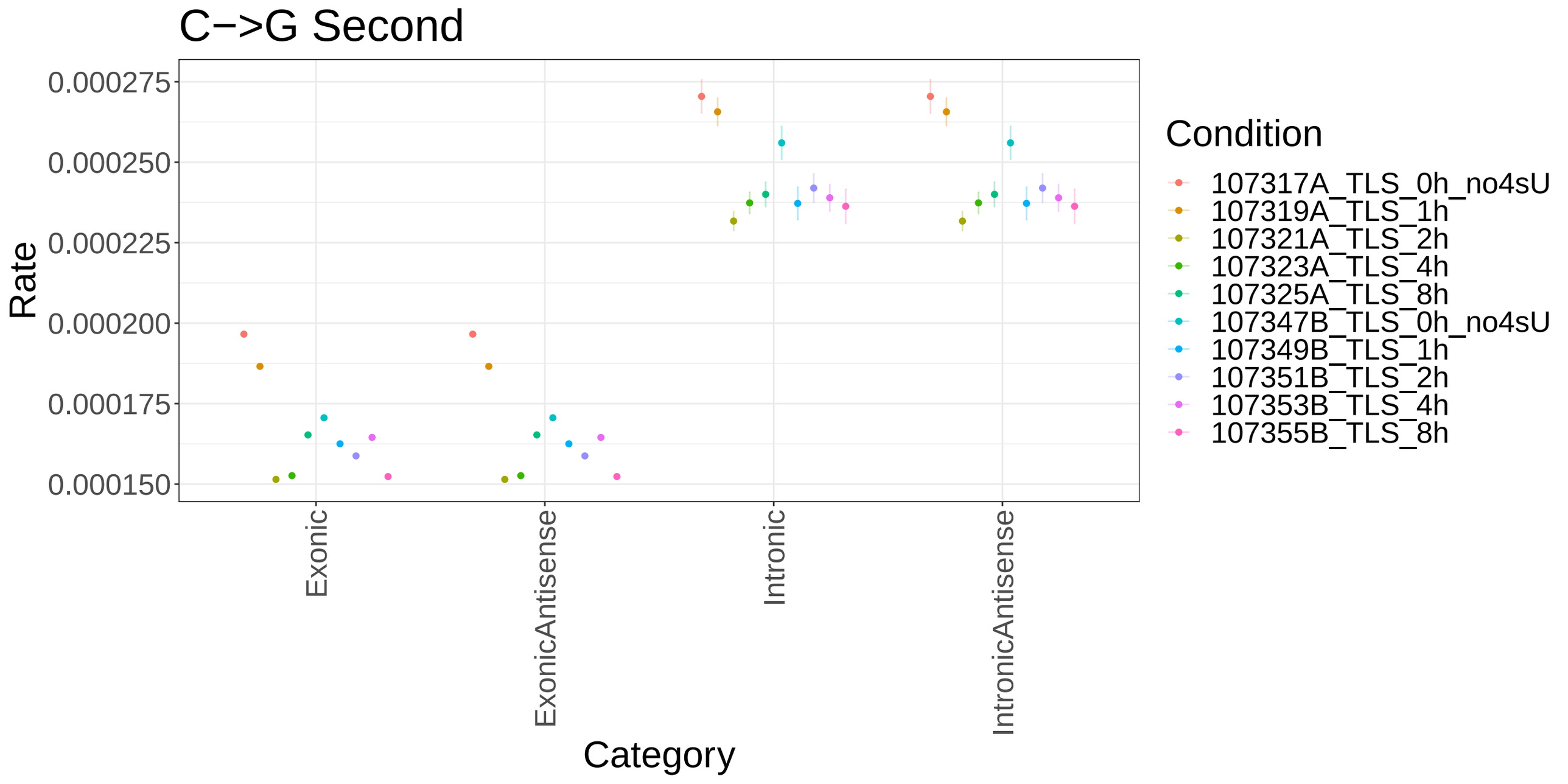

A−>T First
0.00024
0.00021
0.00018
0.00015
0.00012
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

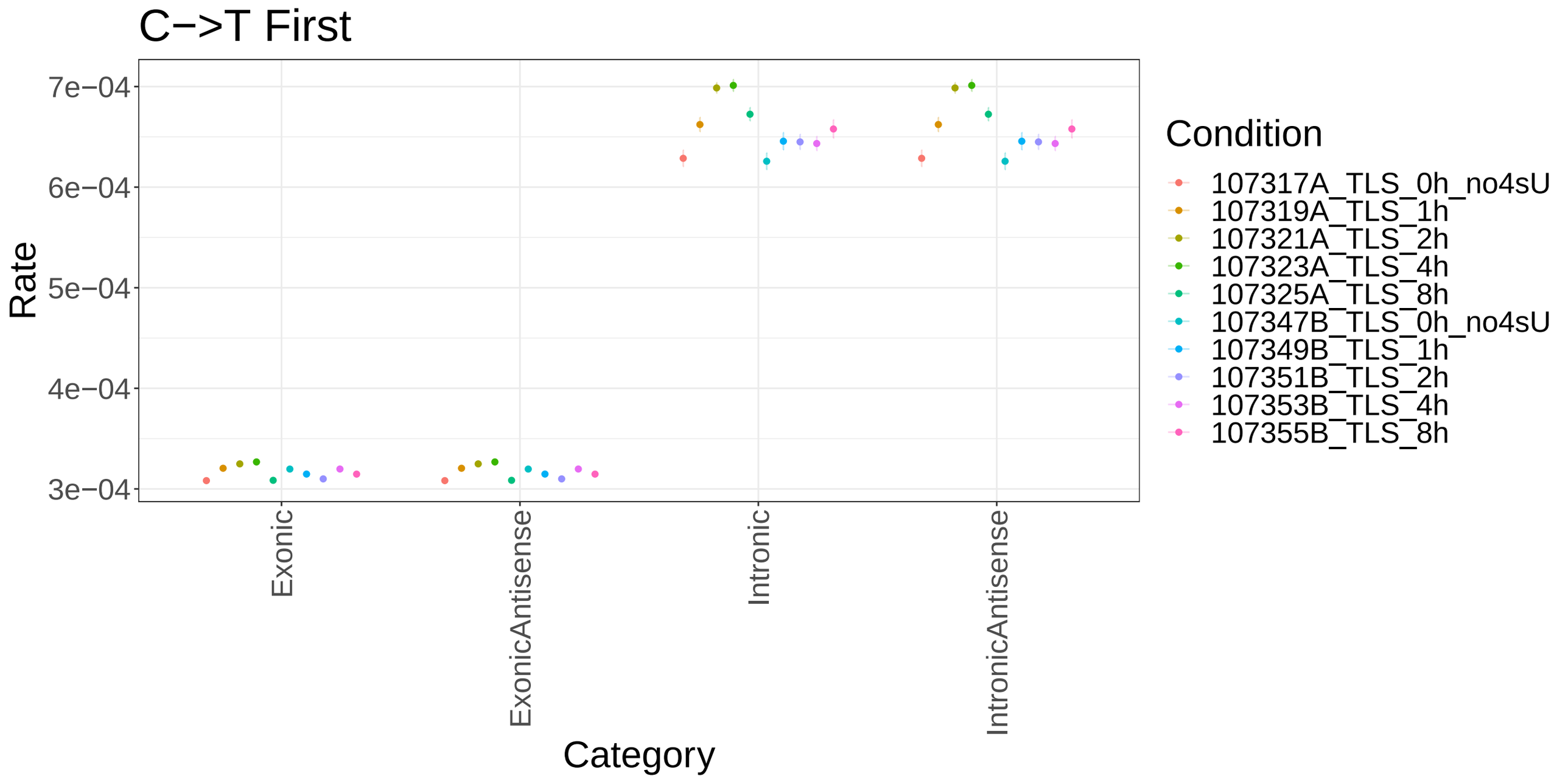

A−>T Second
0.00025
0.00020
0.00015
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

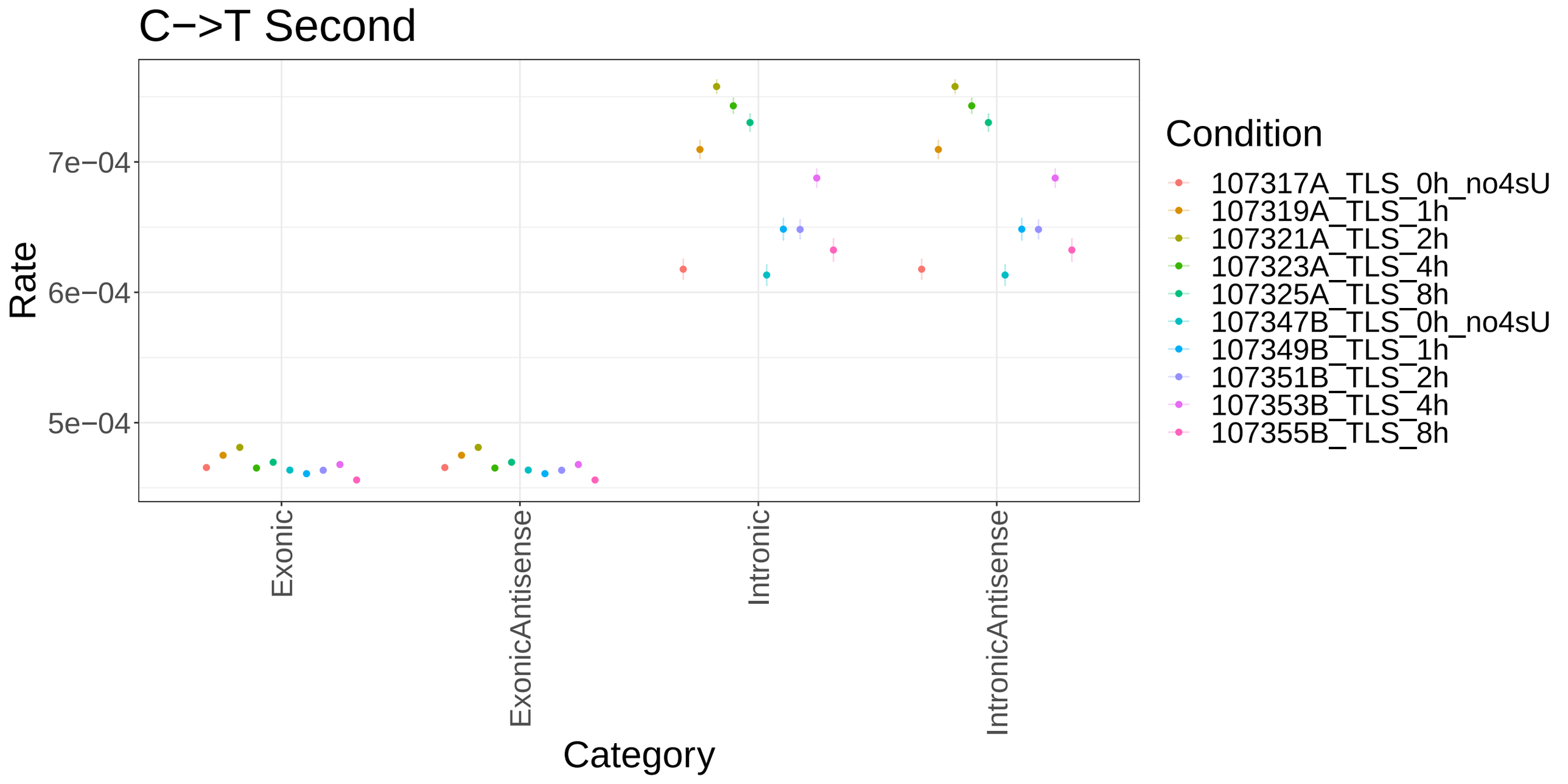

C−>A First
0.00085
0.00080
0.00075
0.00070
0.00065
0.00060
0.00055
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

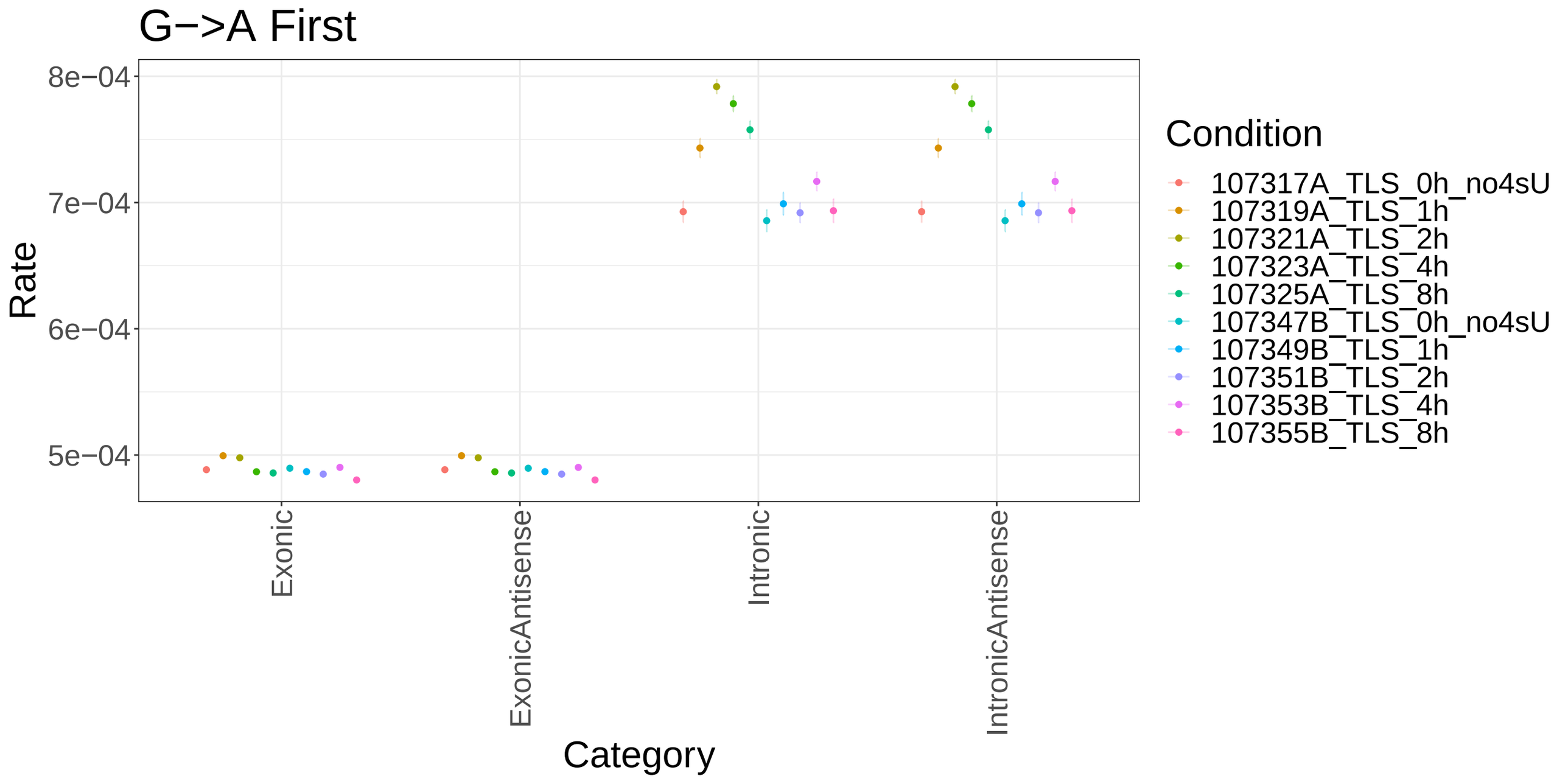

C−>A Second
Rate
0.0013
0.0012
0.0011
0.0010
0.0009
0.0008
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

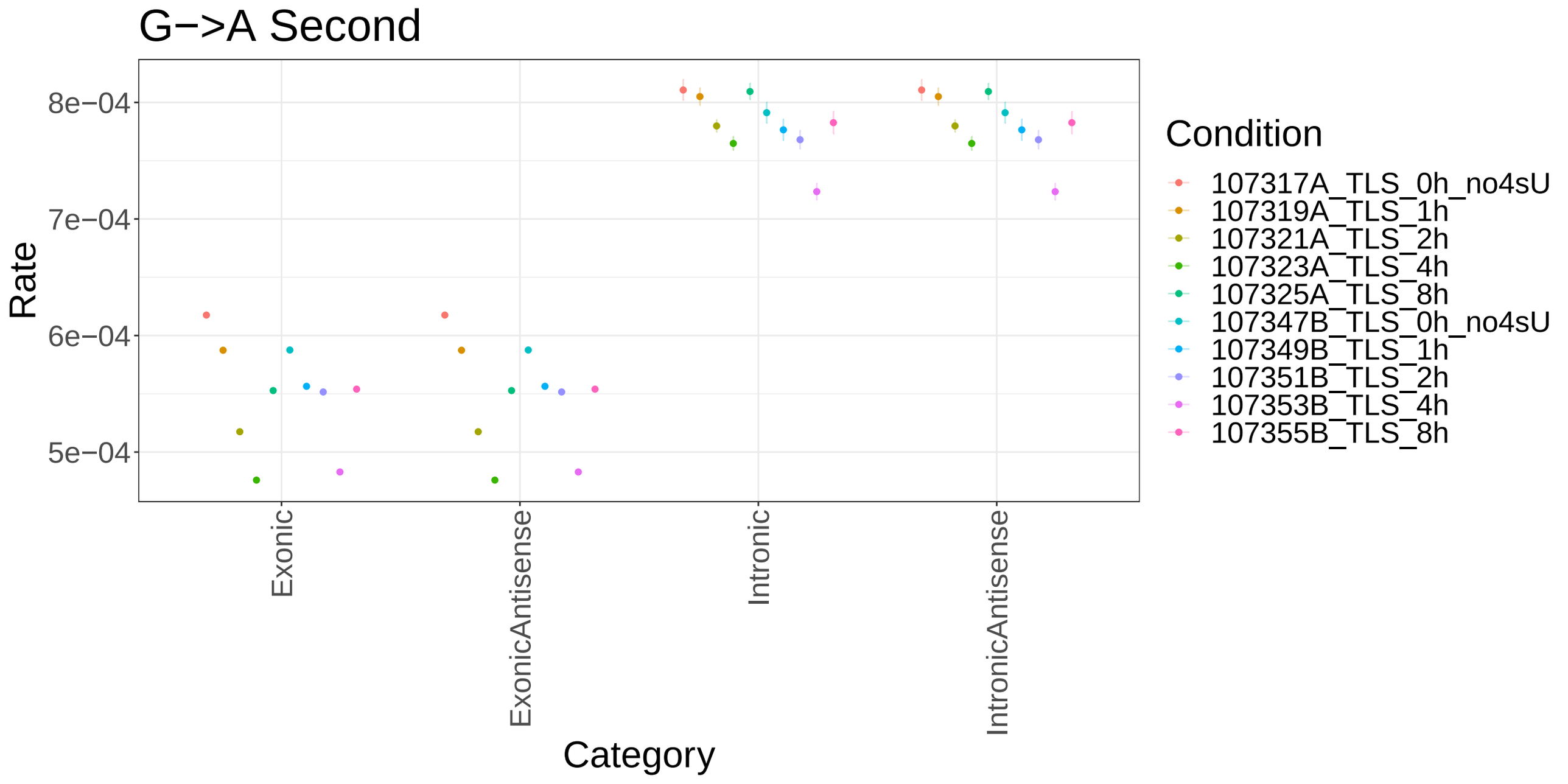

C−>G First
0.00036
0.00032
0.00028
0.00024
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

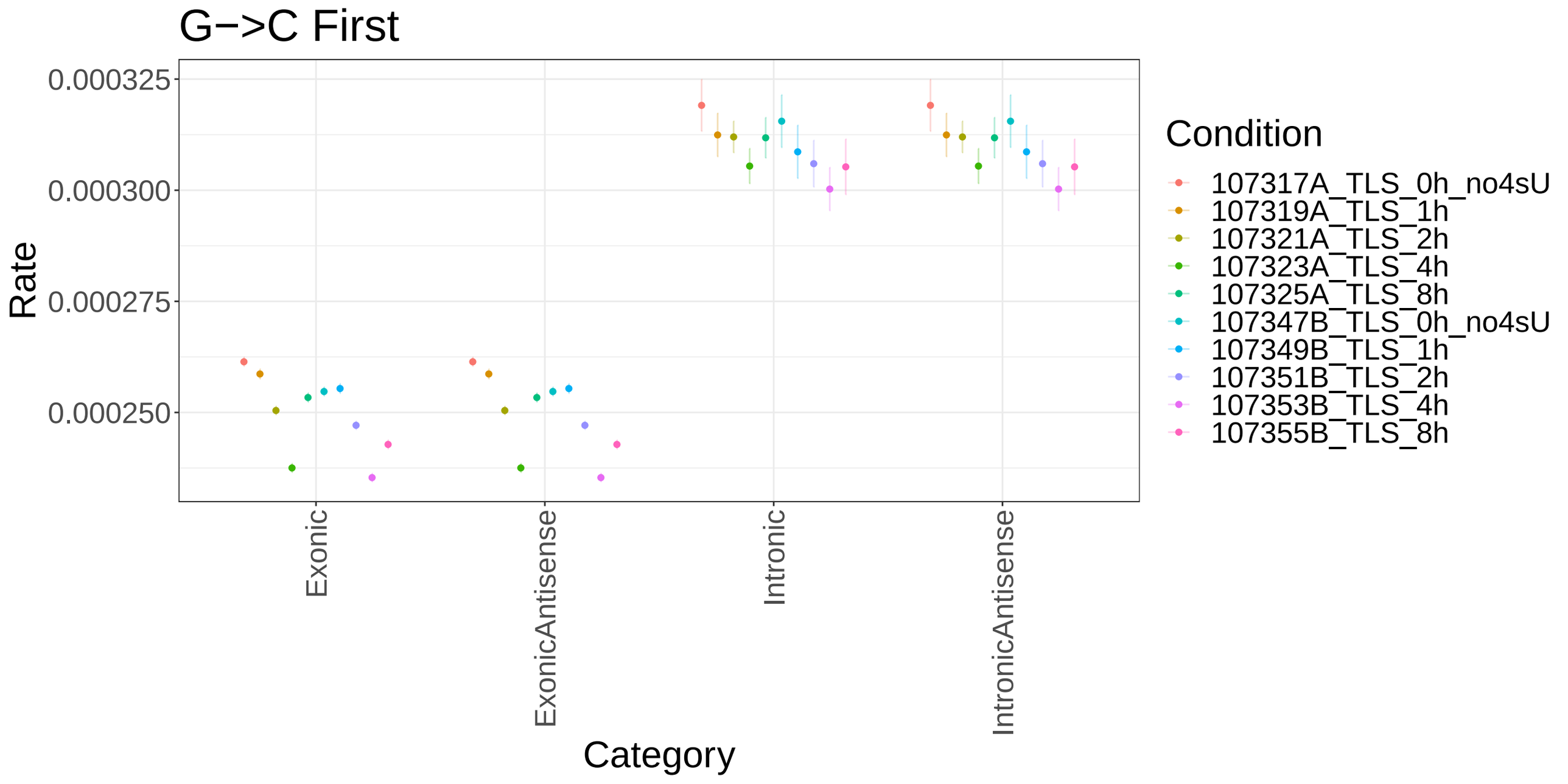

C−>G Second
Rate
0.000275
0.000250
0.000225
0.000200
0.000175
0.000150
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

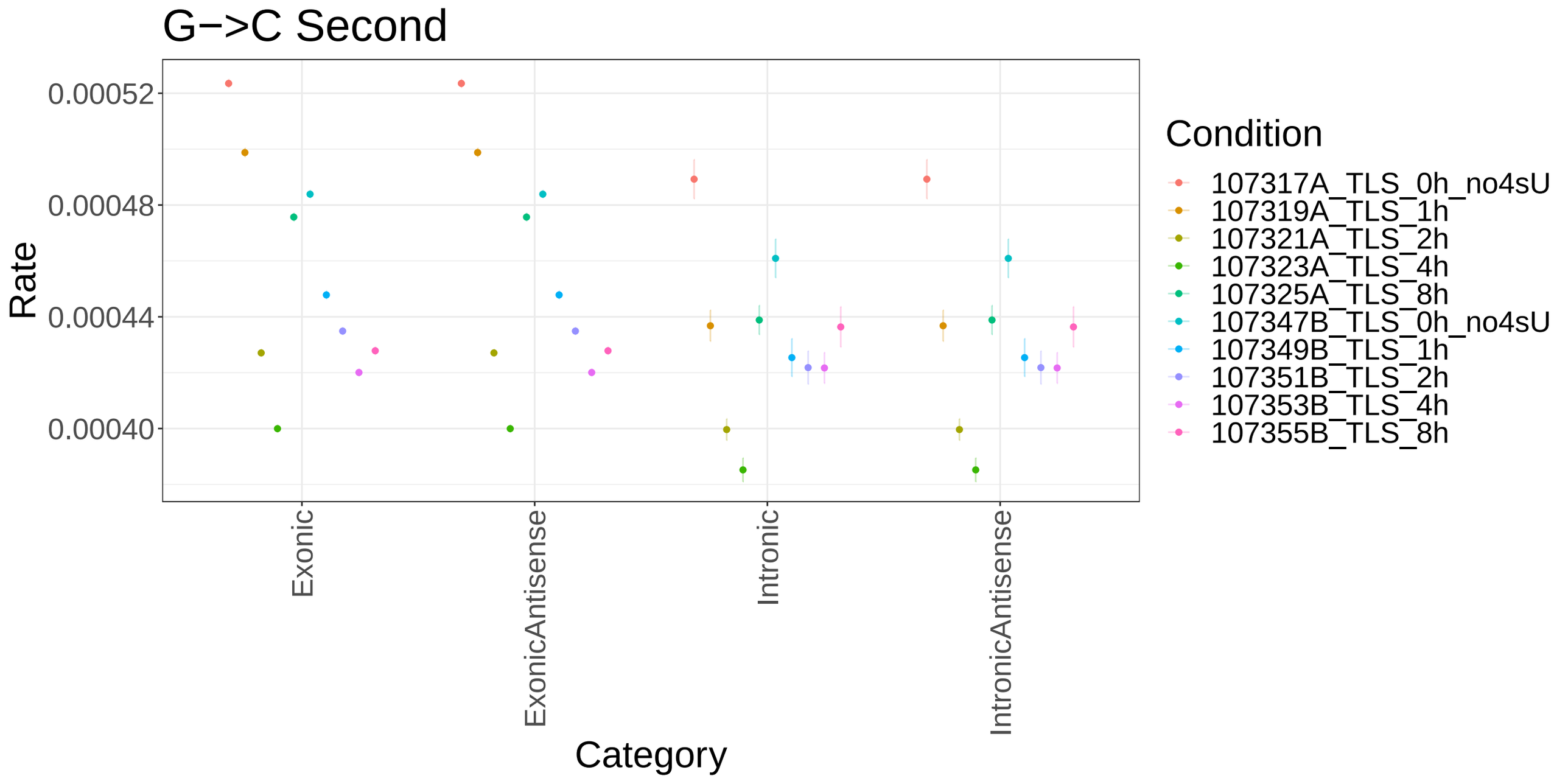

C−>T First
Rate
7e−04
6e−04
5e−04
4e−04
3e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

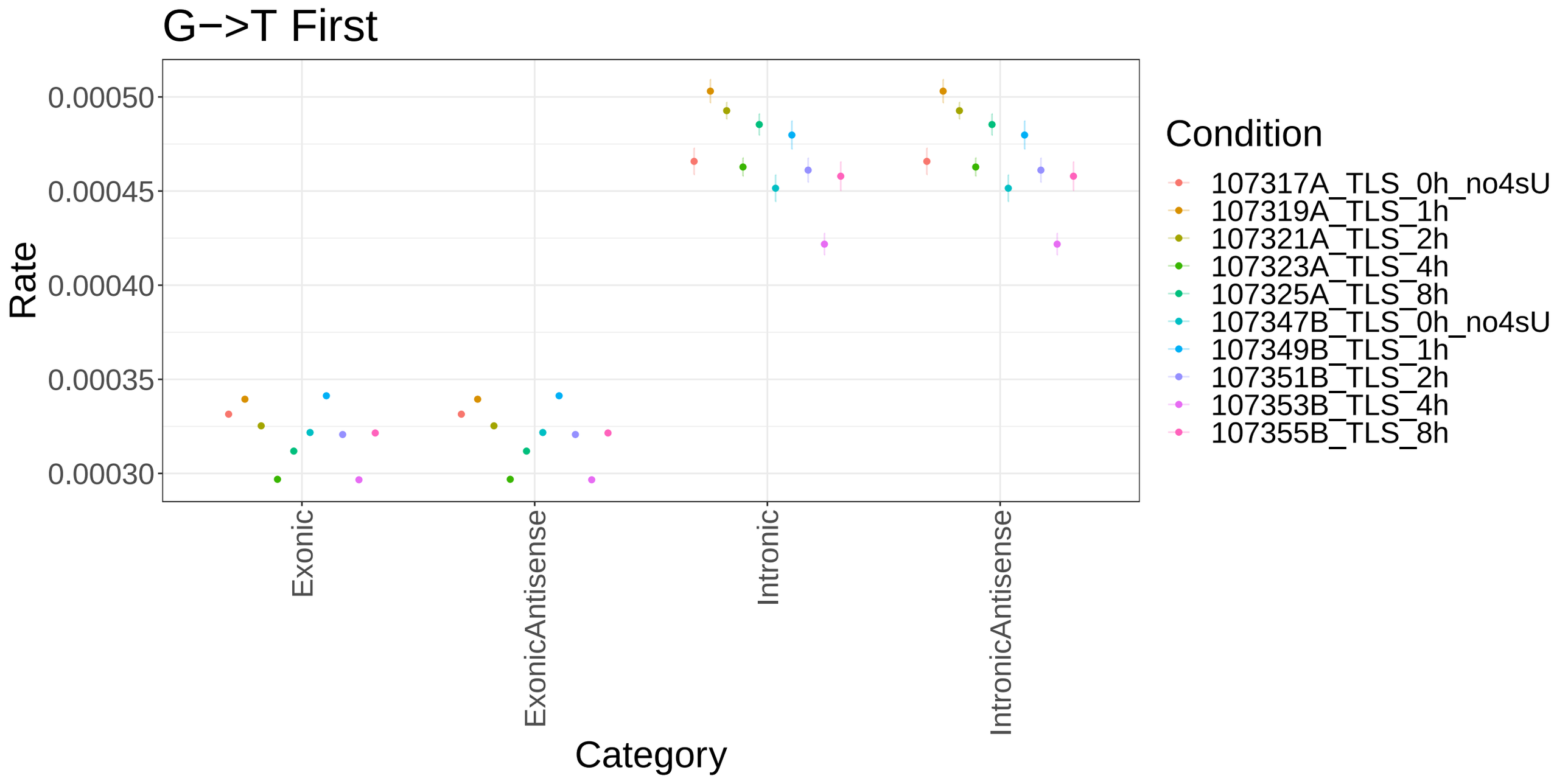

C−>T Second
Rate
7e−04
6e−04
5e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

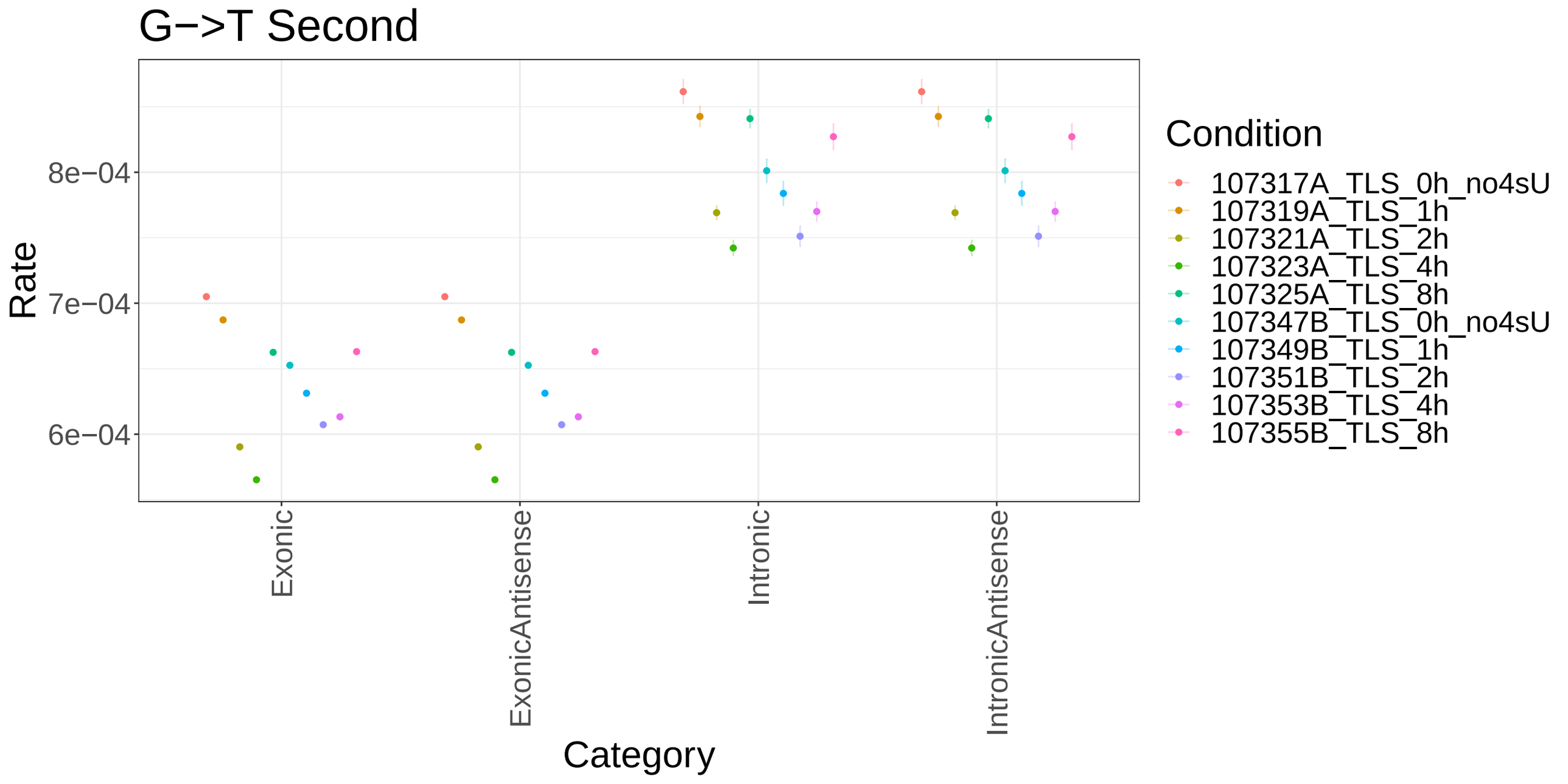

G−>A First
8e−04
7e−04
6e−04
5e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

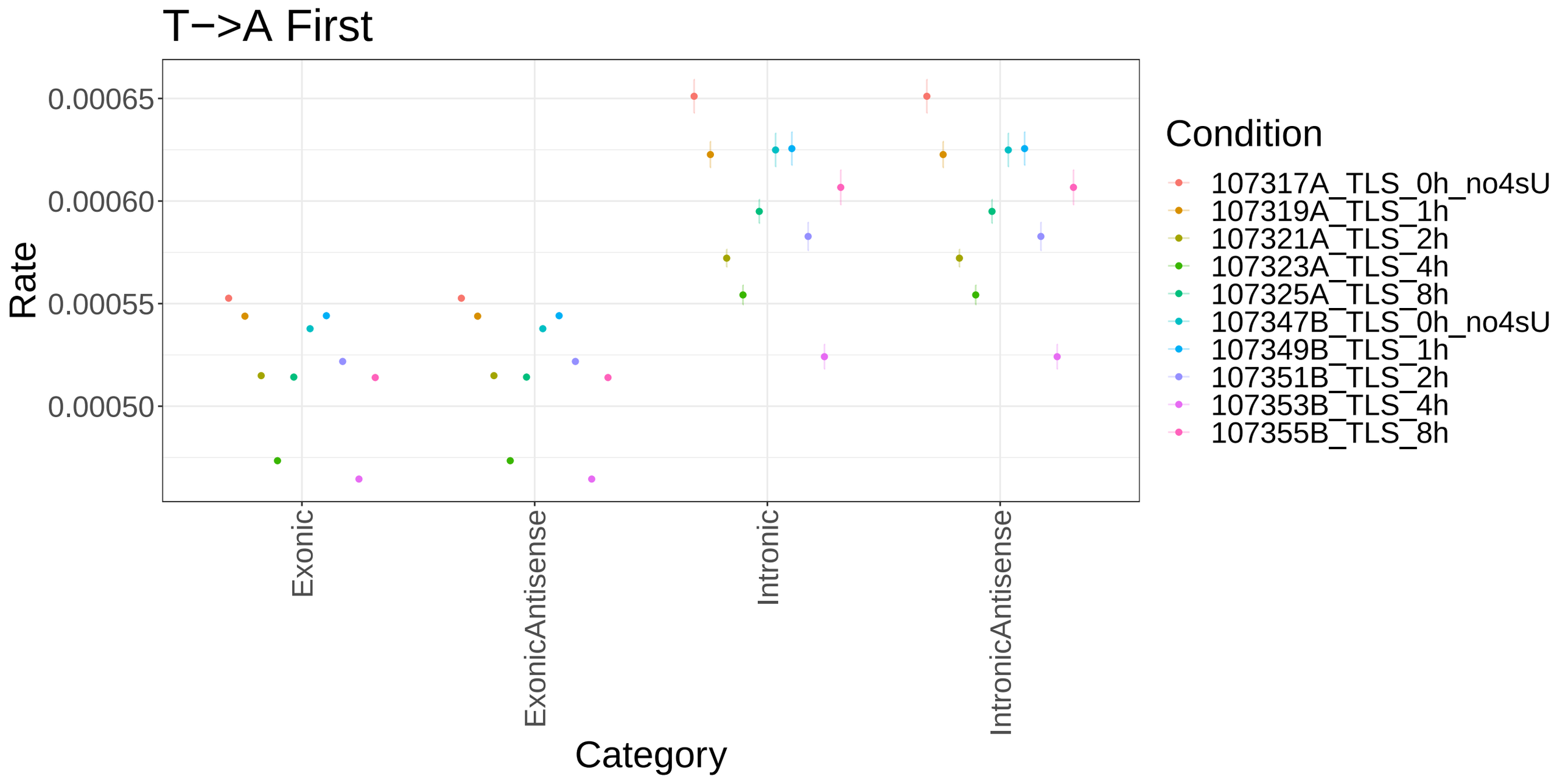

G−>A Second
8e−04
7e−04
6e−04
5e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

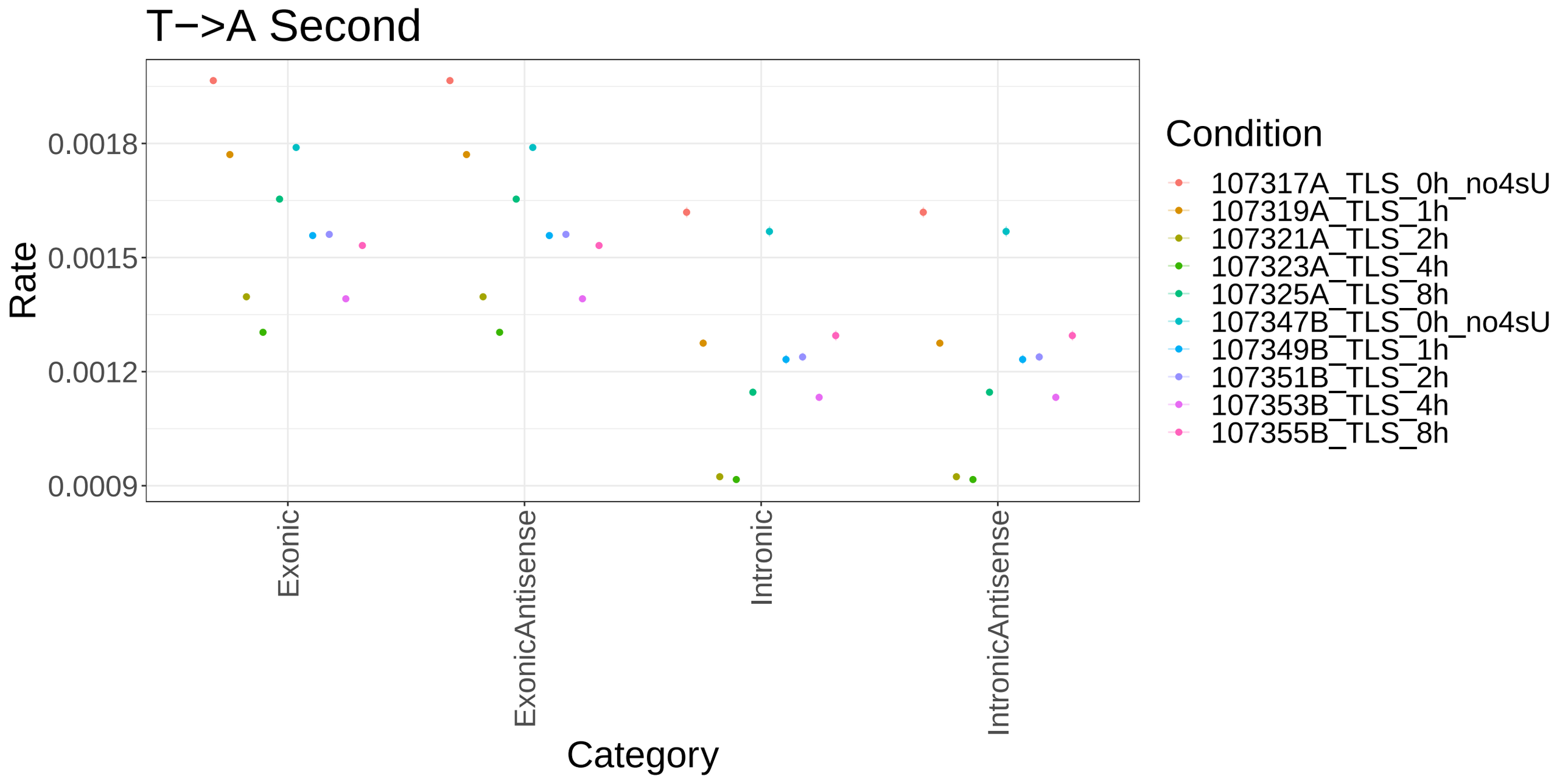

G−>C First
0.000325
0.000300
0.000275
0.000250
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

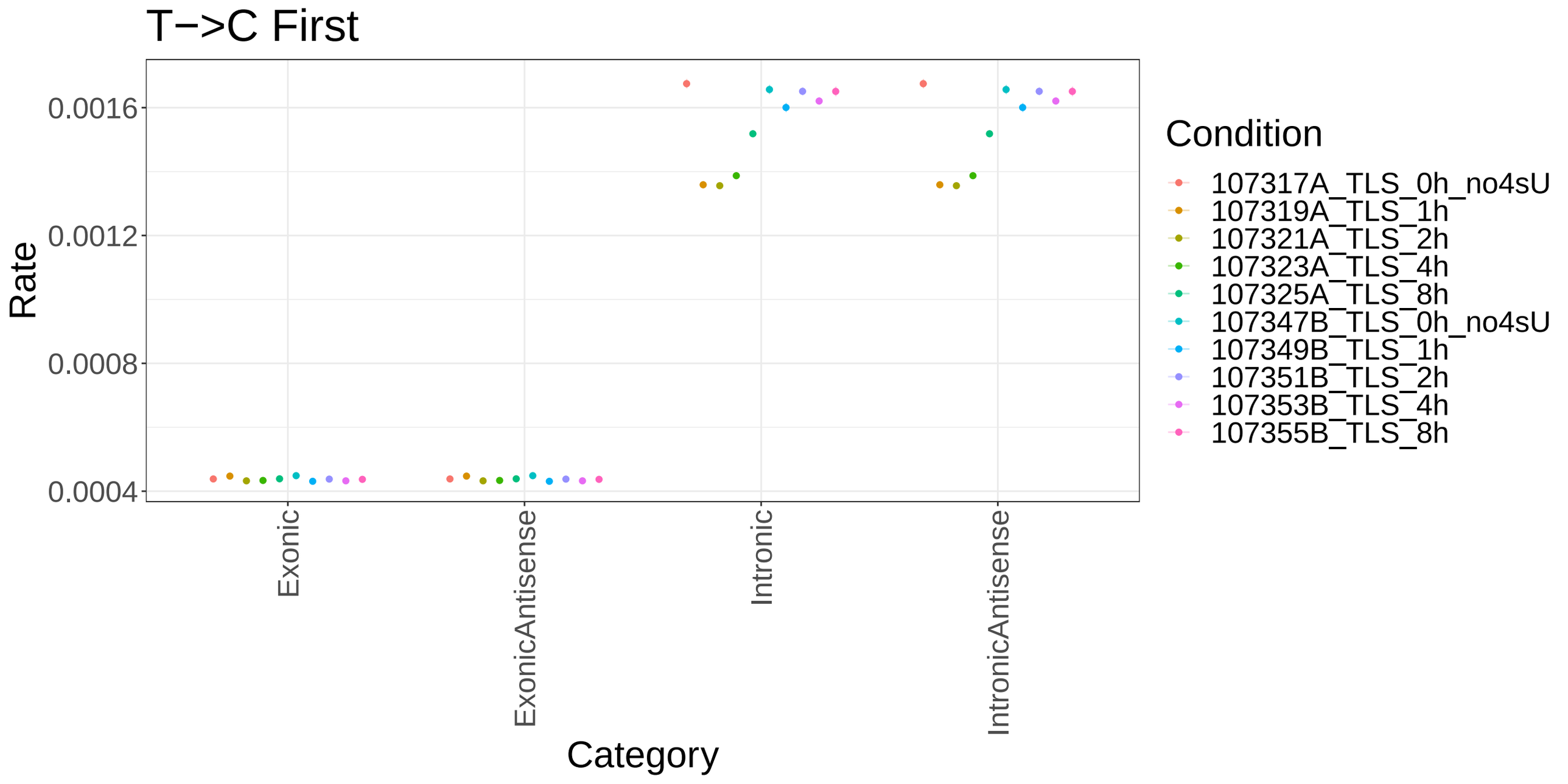

G−>C Second
0.00052
0.00048
0.00044
0.00040
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

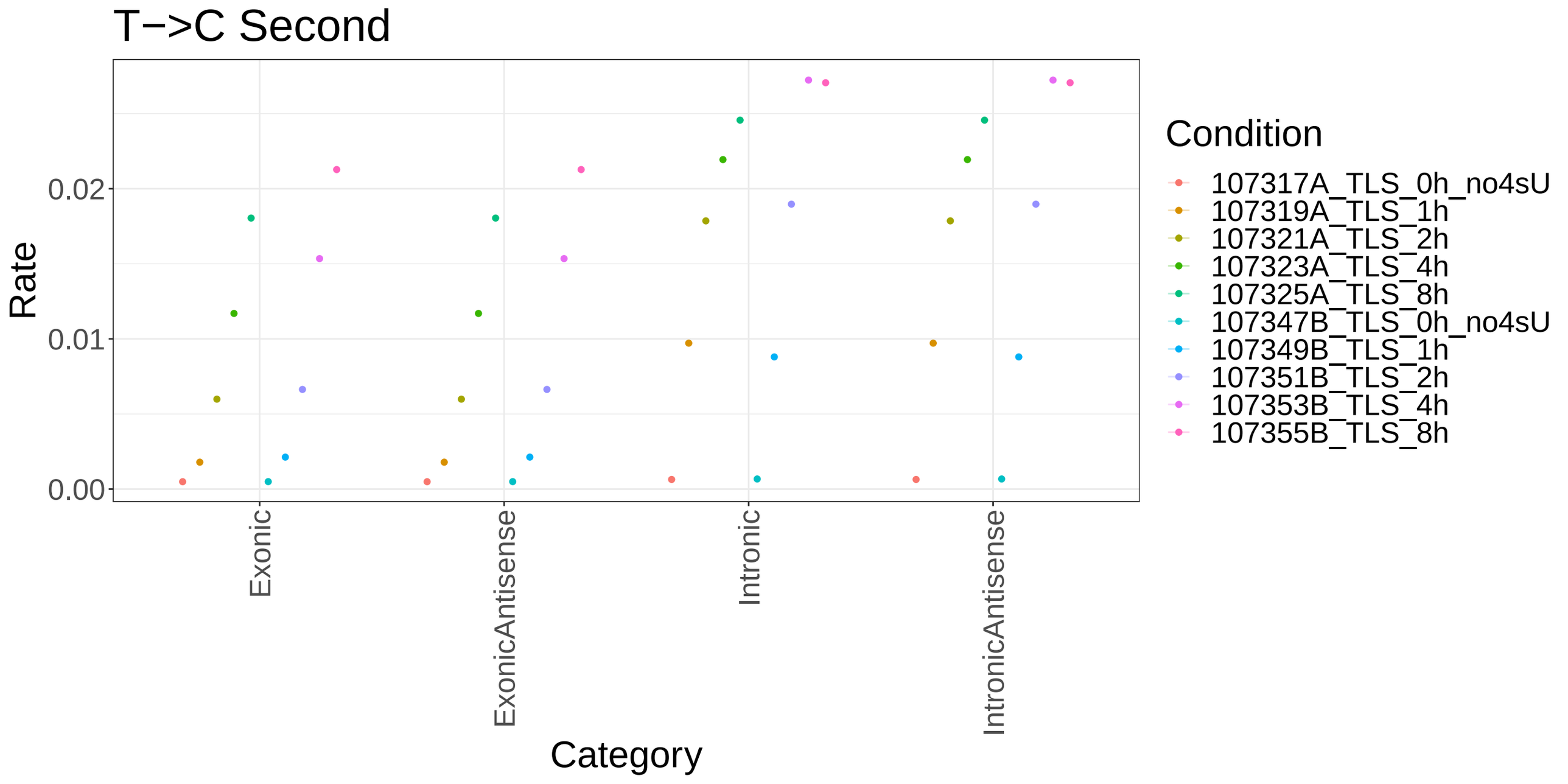

G−>T First
Rate
0.00050
0.00045
0.00040
0.00035
0.00030
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

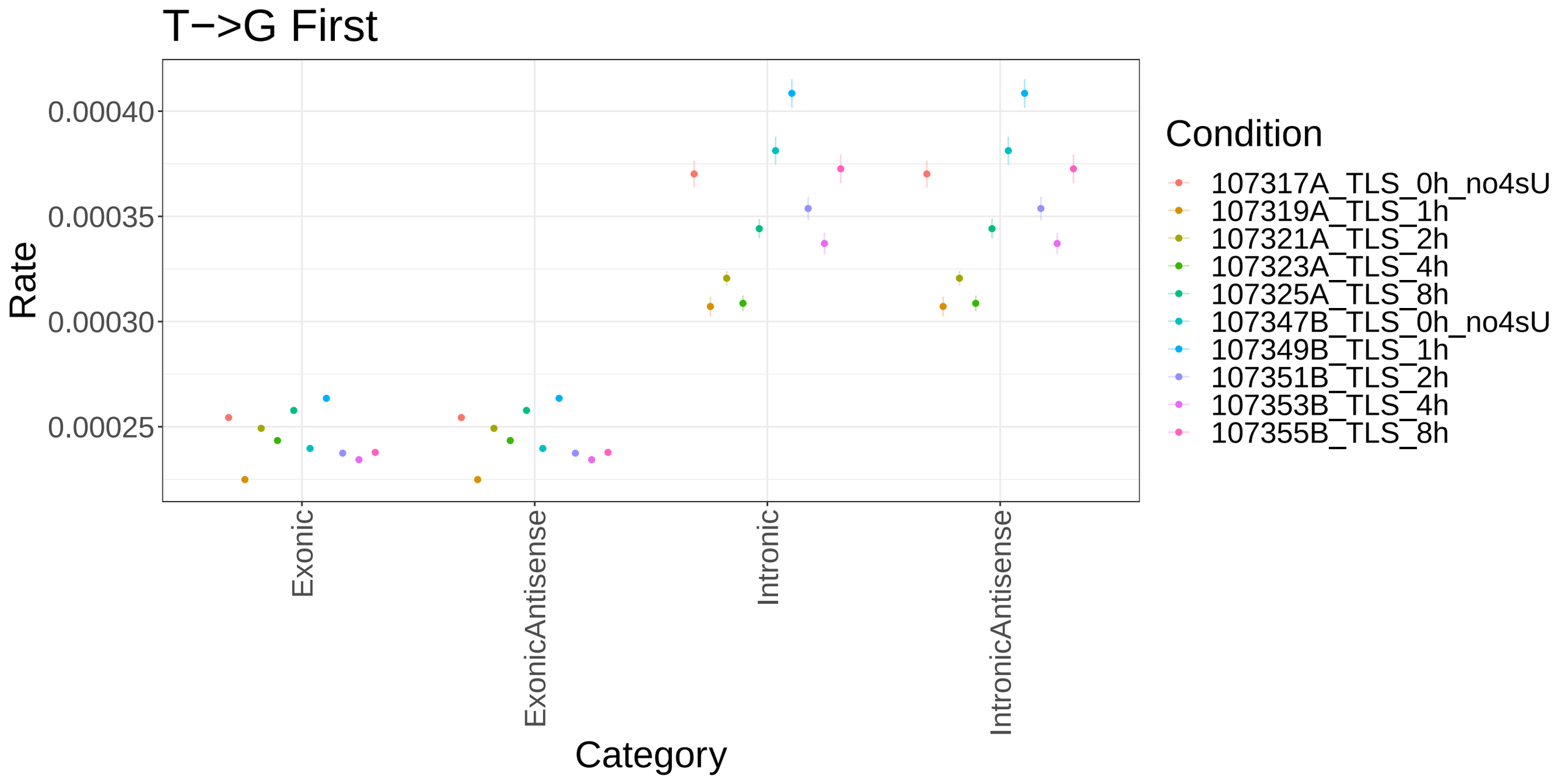

G−>T Second
Rate
8e−04
7e−04
6e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

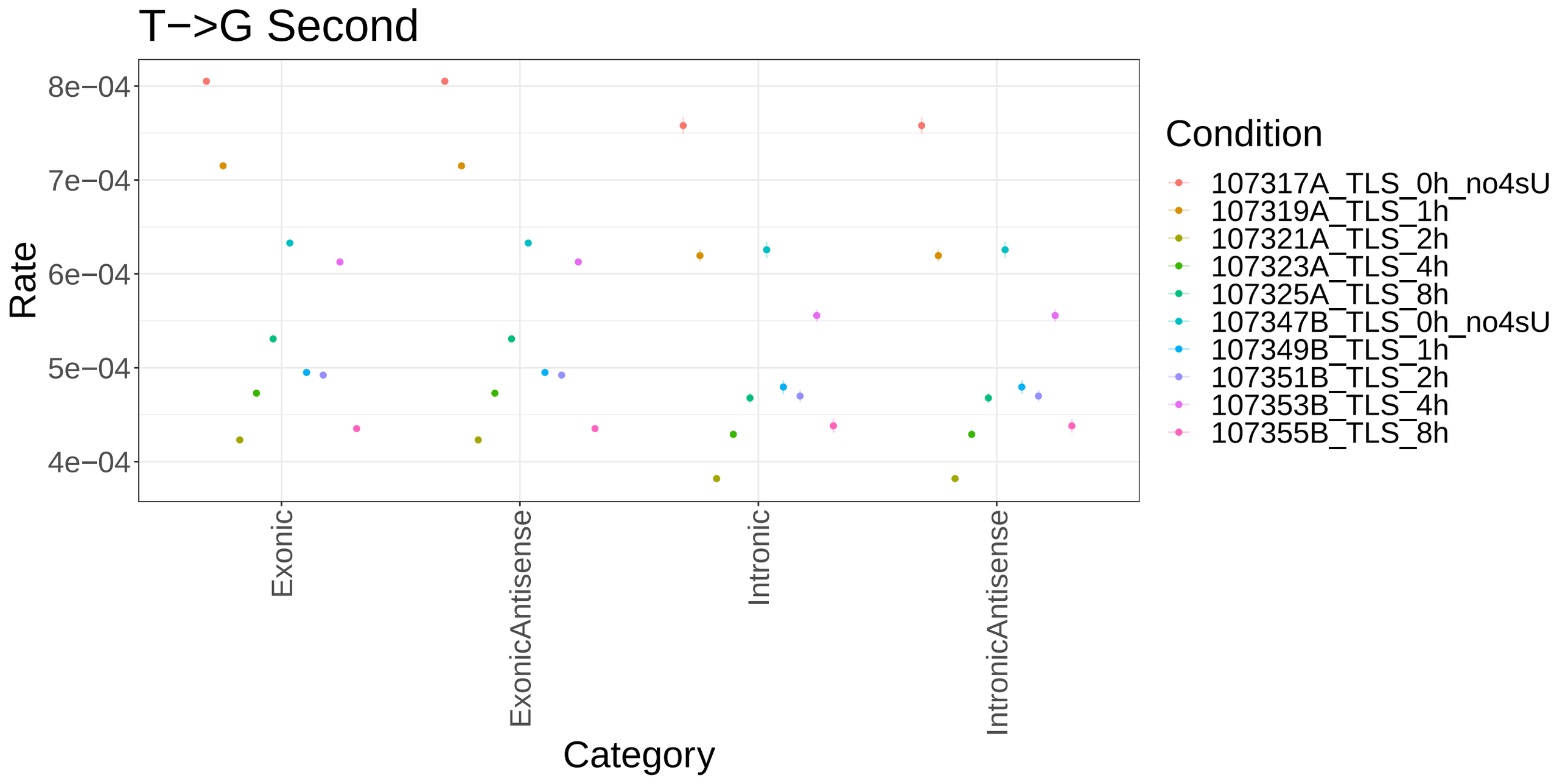

T−>A First
Rate
0.00065
0.00060
0.00055
0.00050
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

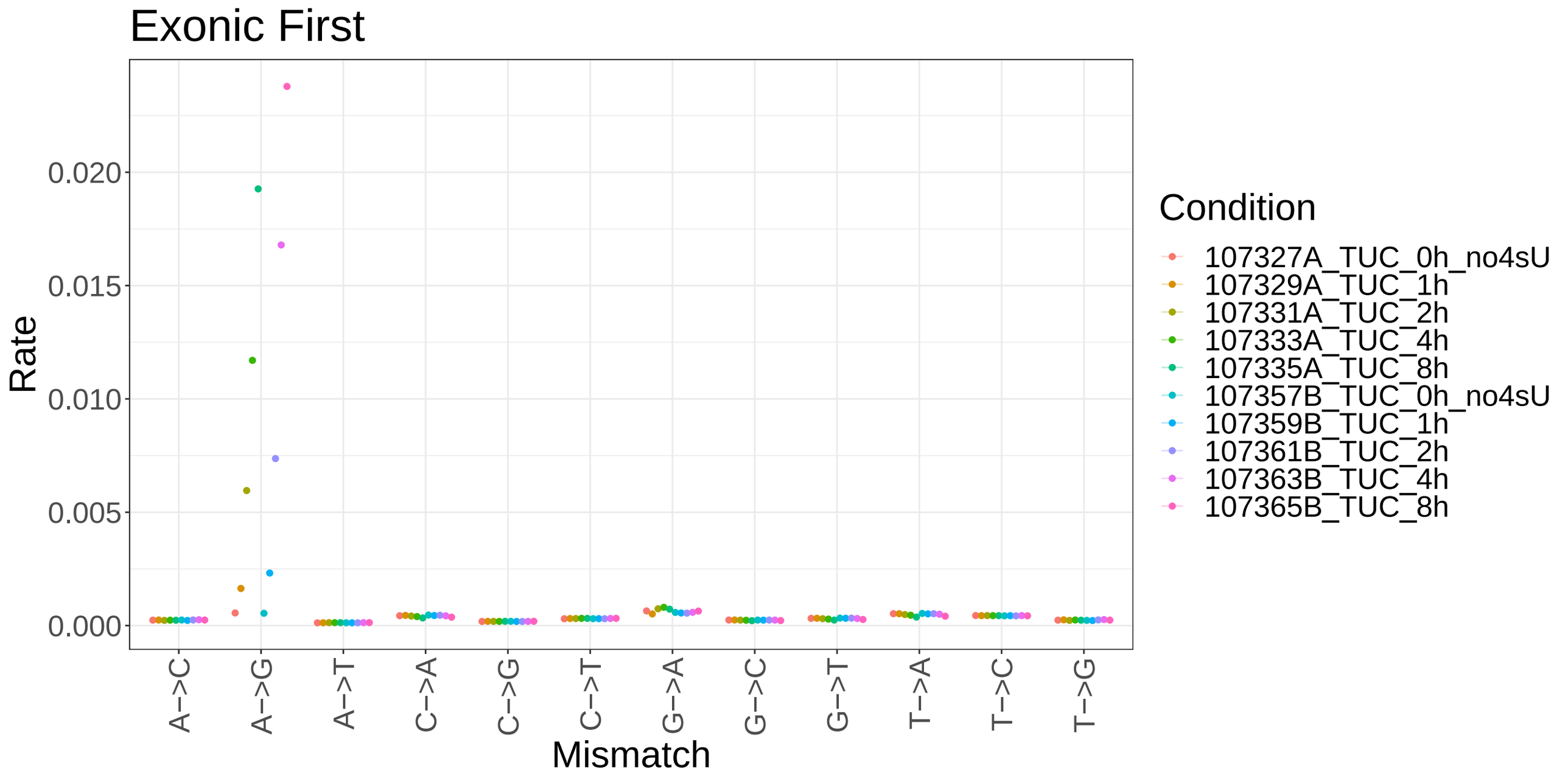

T−>A Second
Rate
0.0018
0.0015
0.0012
0.0009
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

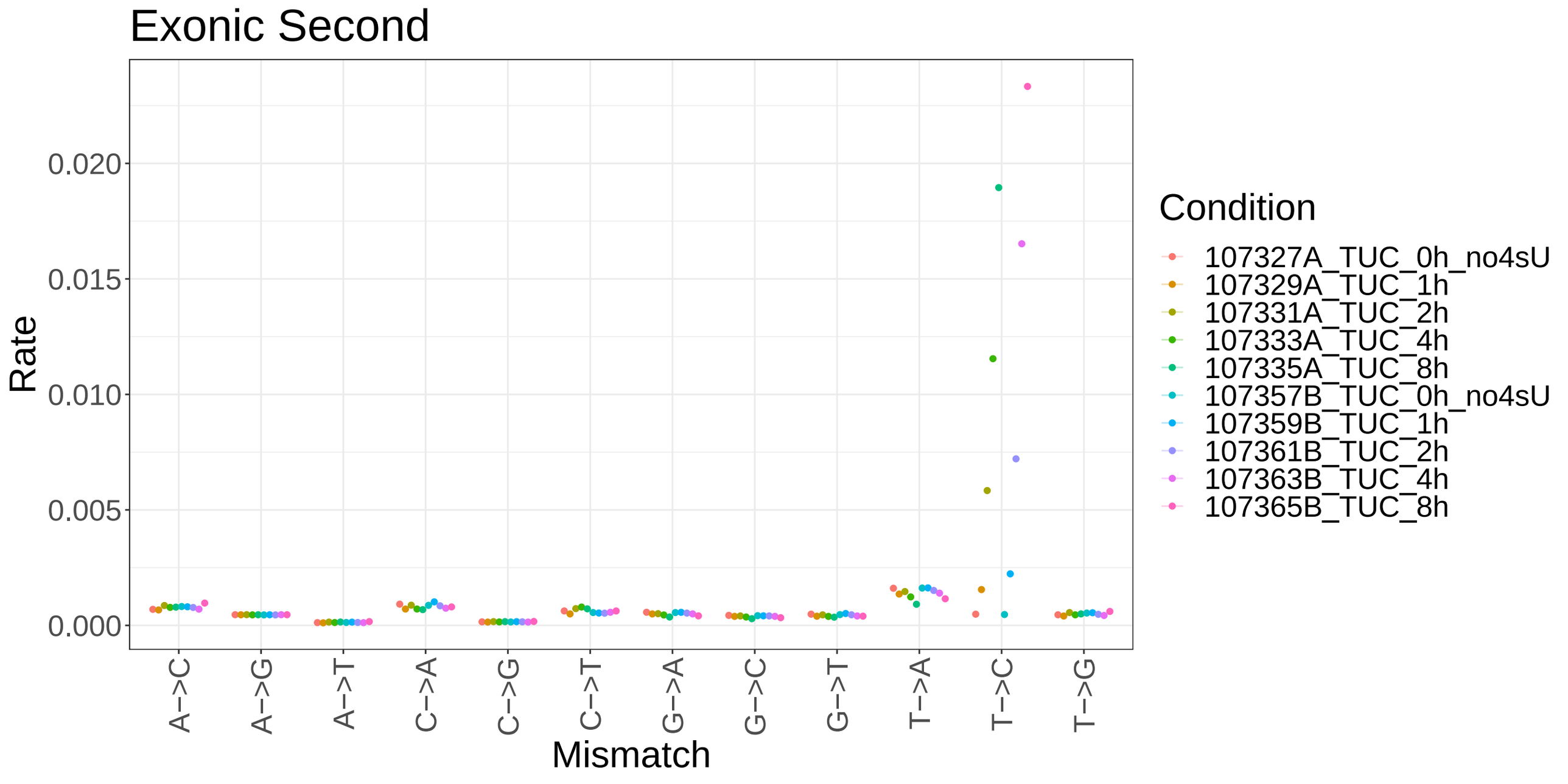

T−>C First
Rate
0.0016
0.0012
0.0008
0.0004
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

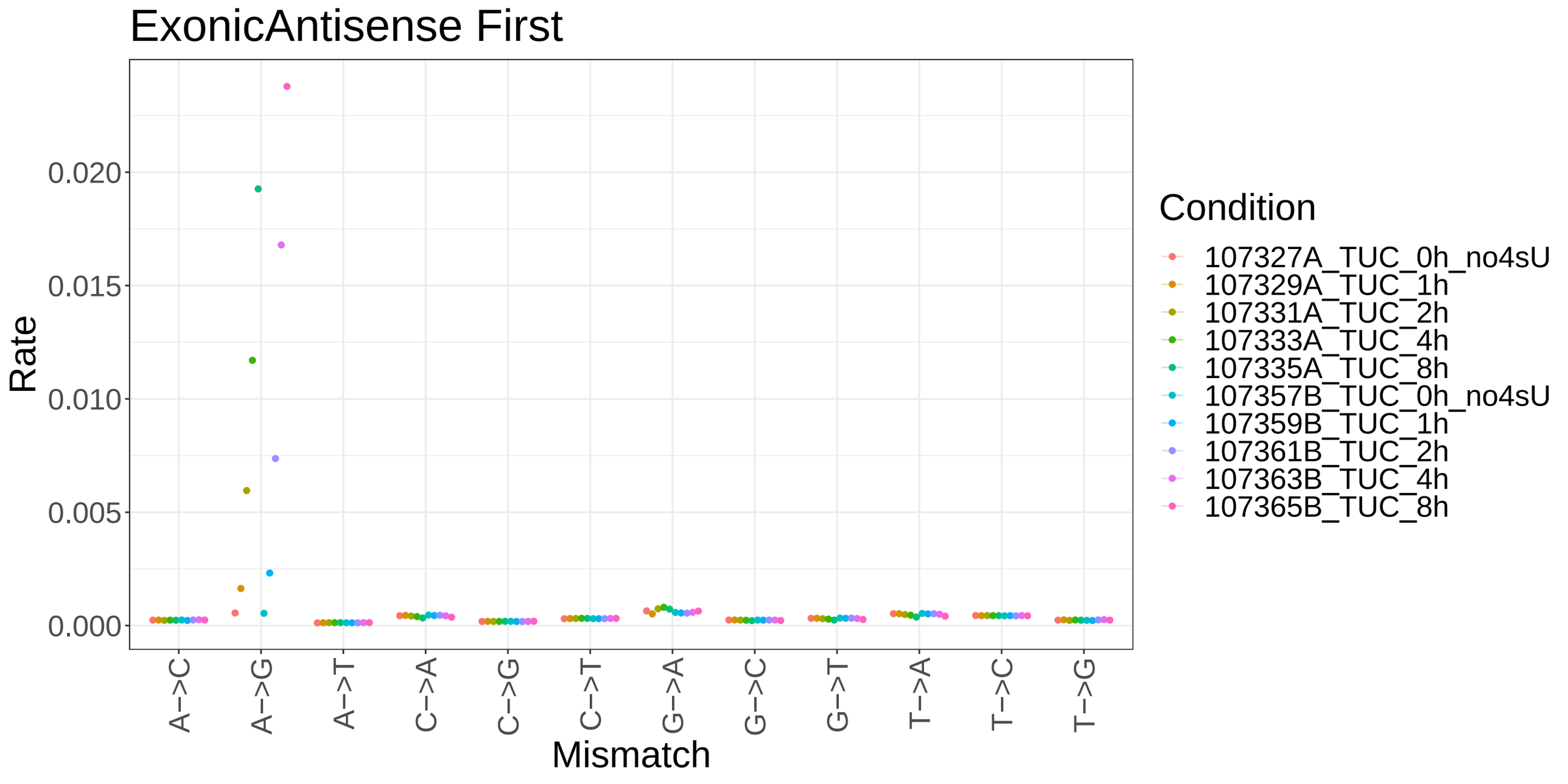

T−>C Second
Rate
0.02
0.01
0.00
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

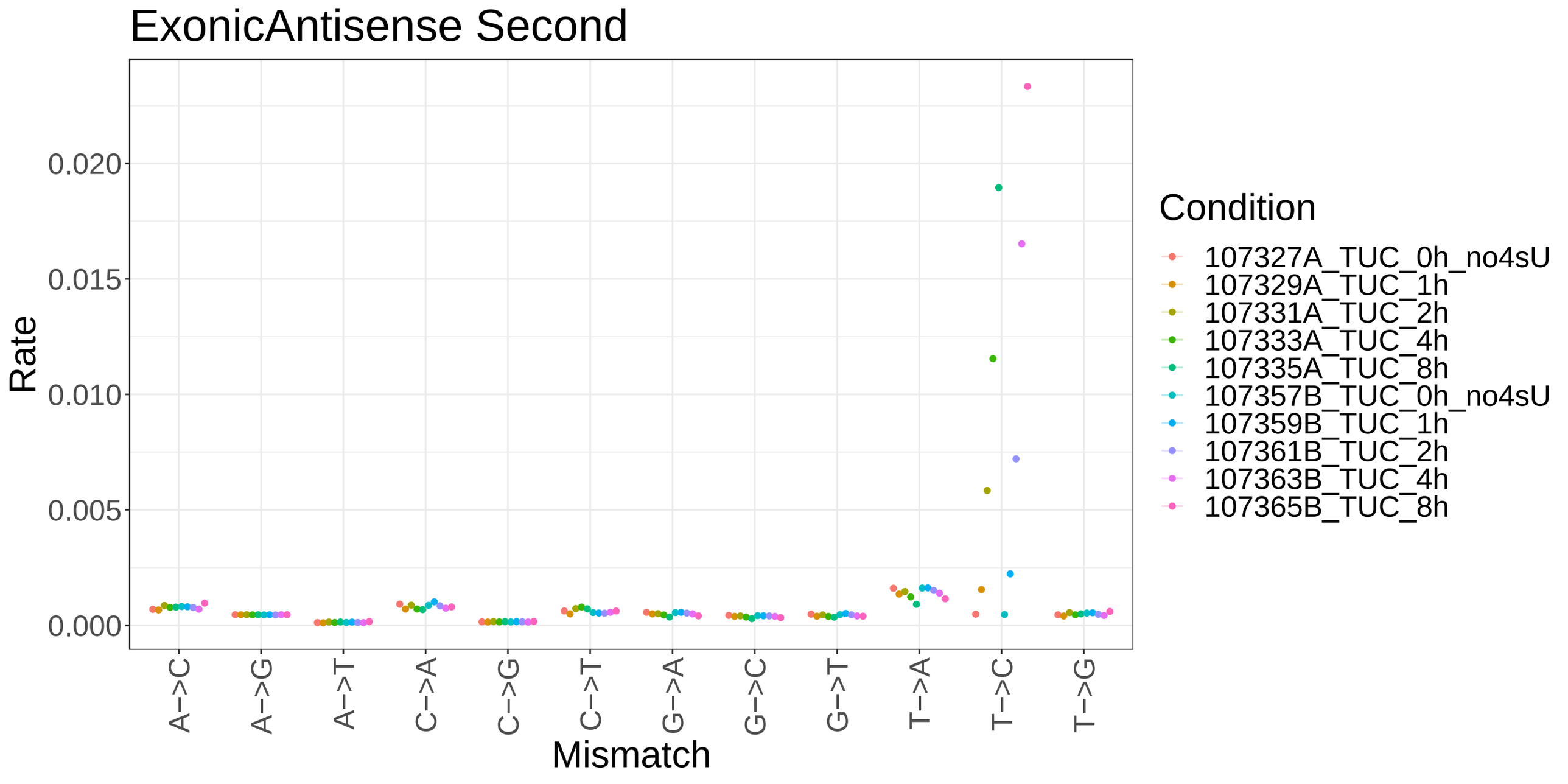

T−>G First
Rate
0.00040
0.00035
0.00030
0.00025
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

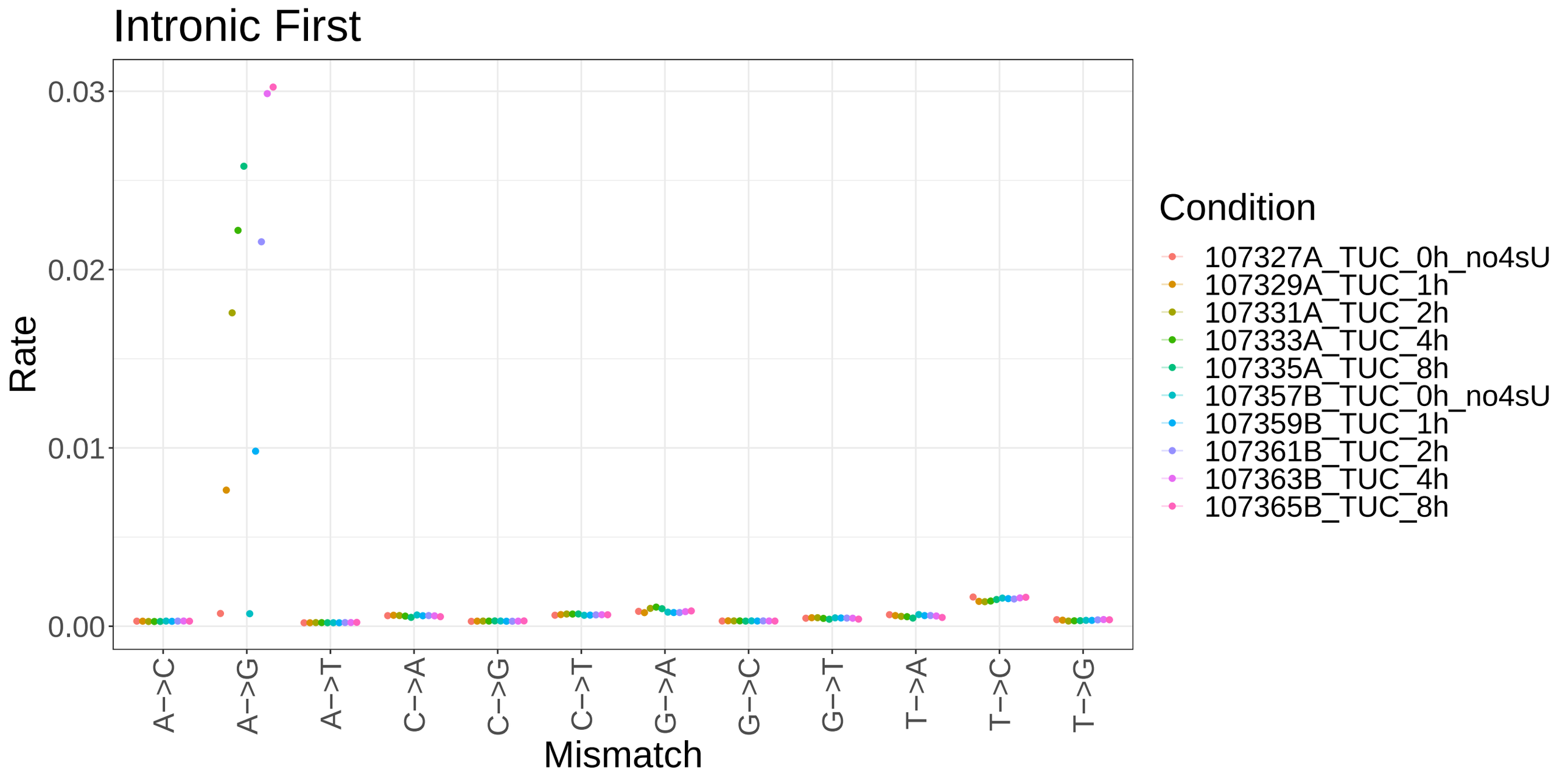

T−>G Second
Rate
8e−04
7e−04
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107317A_TLS_0h_no4sU
107319A_TLS_1h
107321A_TLS_2h
107323A_TLS_4h
107325A_TLS_8h
107347B_TLS_0h_no4sU
107349B_TLS_1h
107351B_TLS_2h
107353B_TLS_4h
107355B_TLS_8h

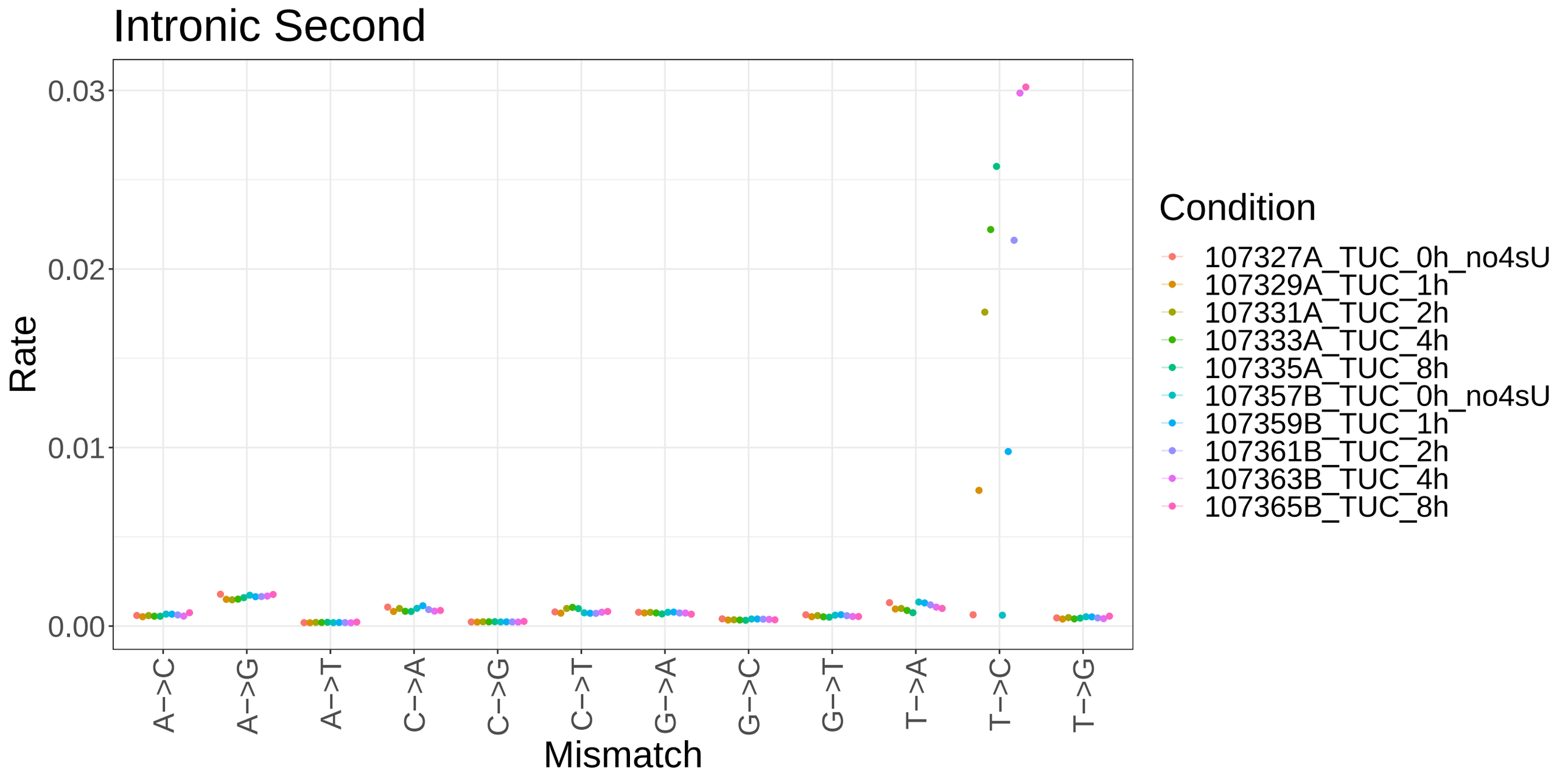

Exonic First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

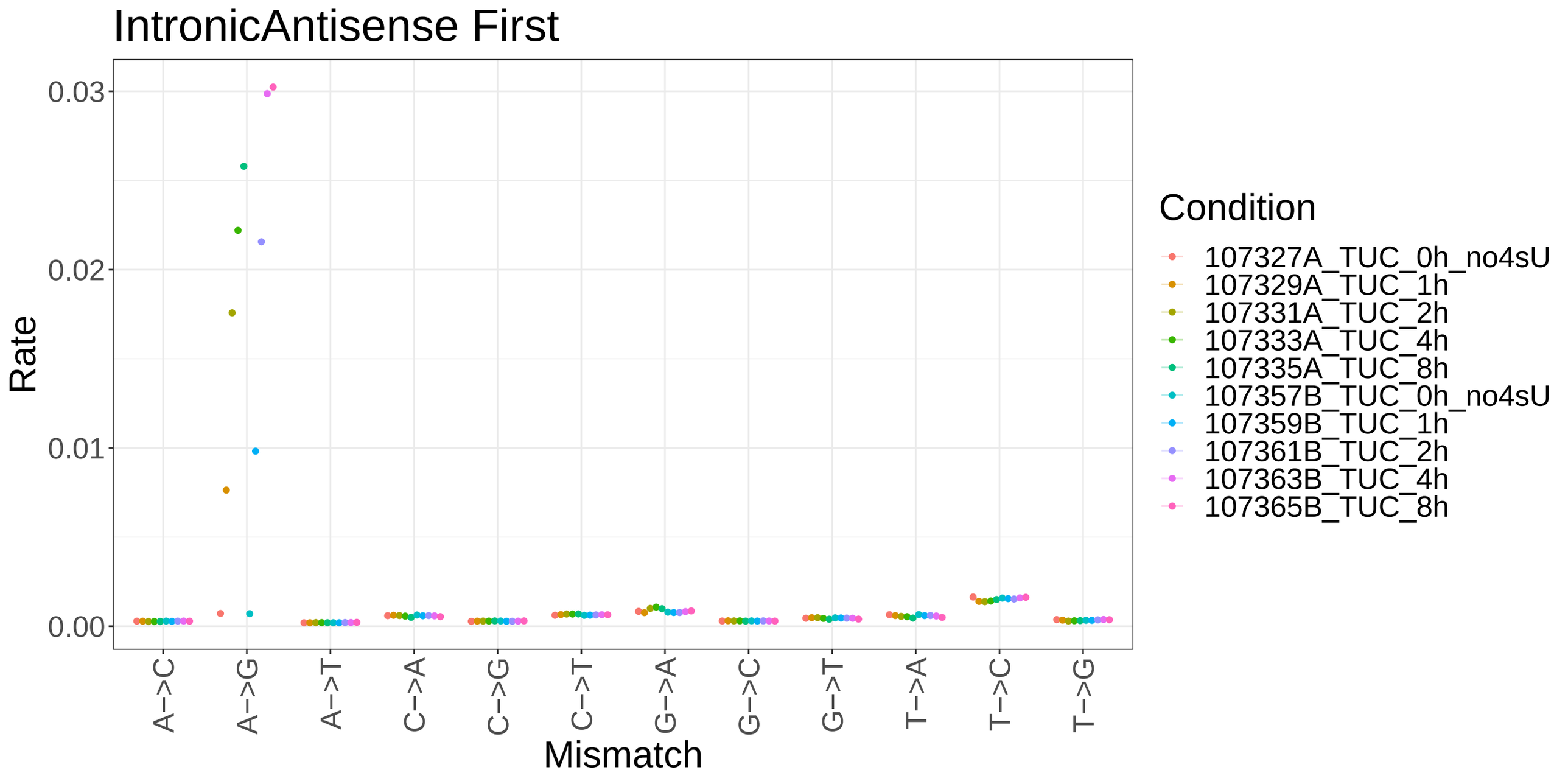

Exonic Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

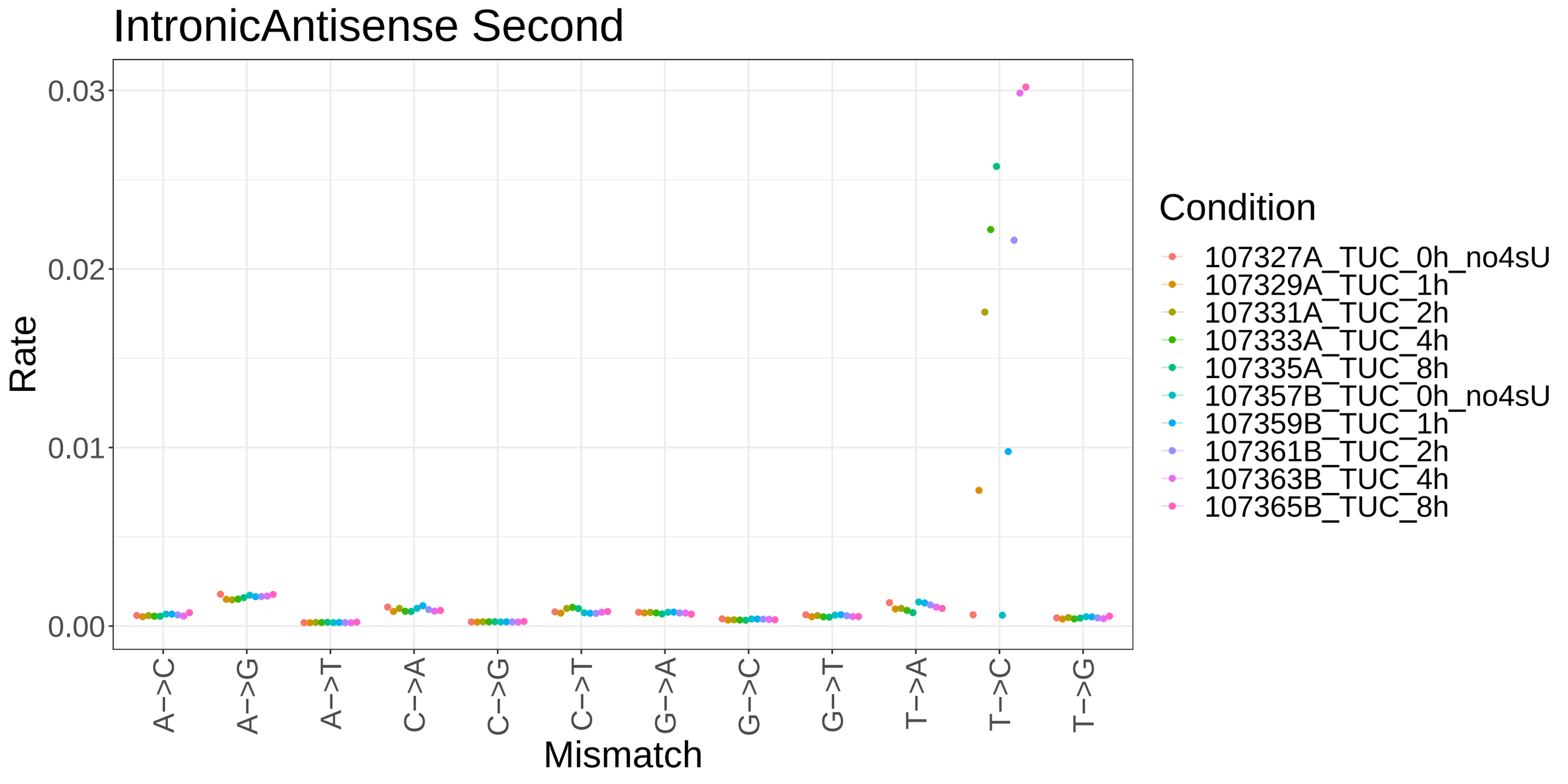

ExonicAntisense First
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

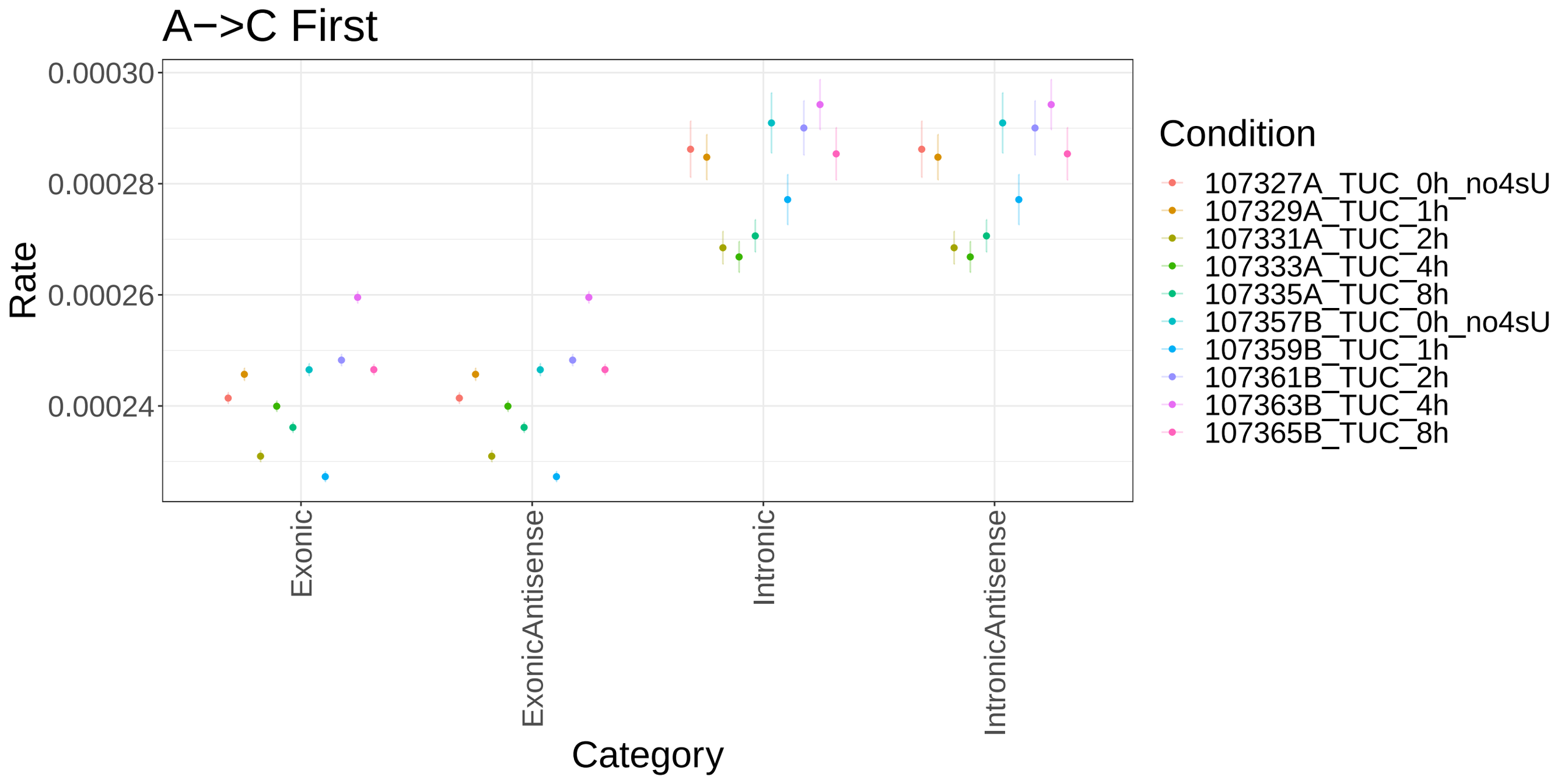

ExonicAntisense Second
Rate
0.020
0.015
0.010
0.005
0.000
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

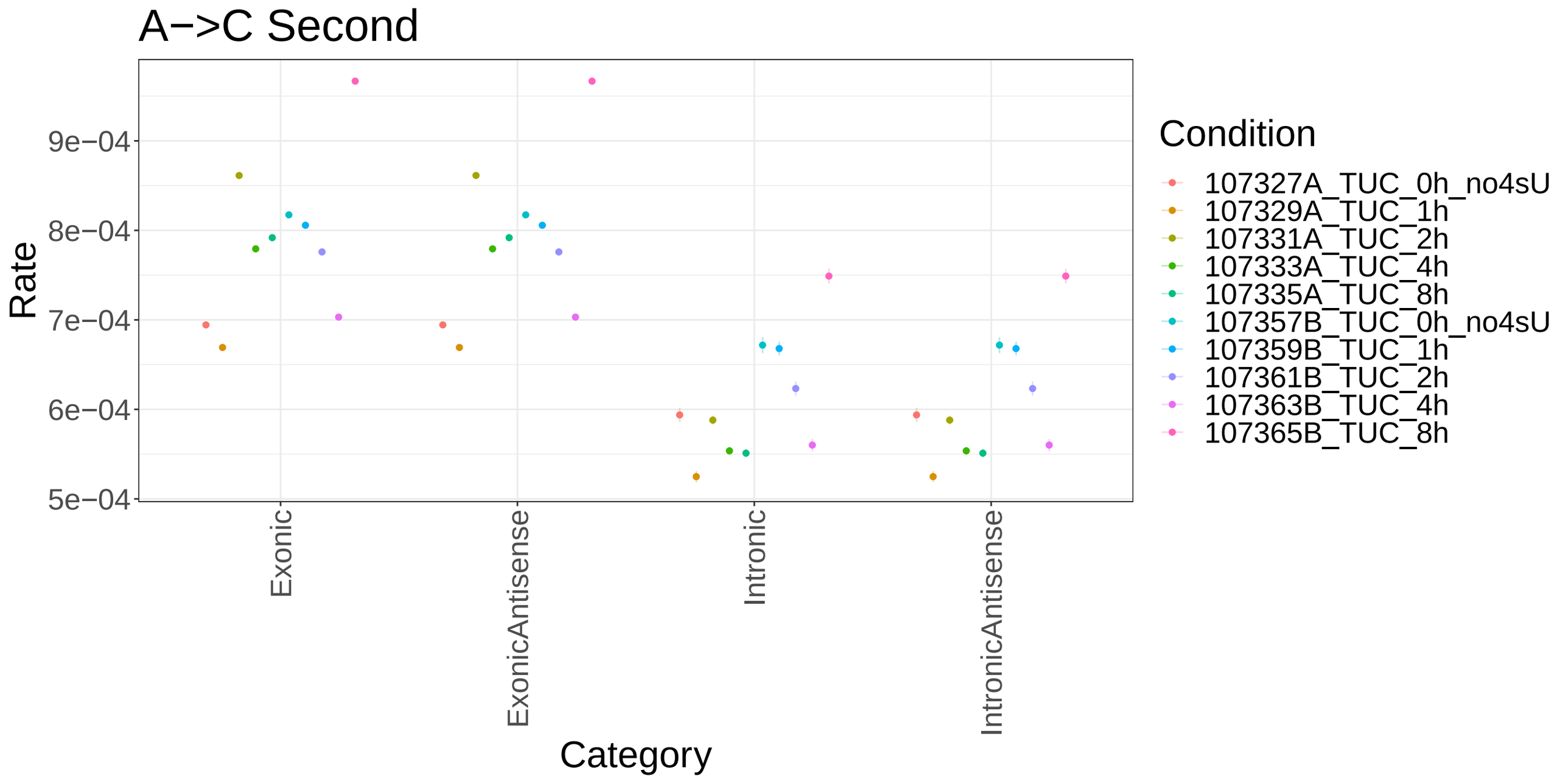

Intronic First
Rate
0.03
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

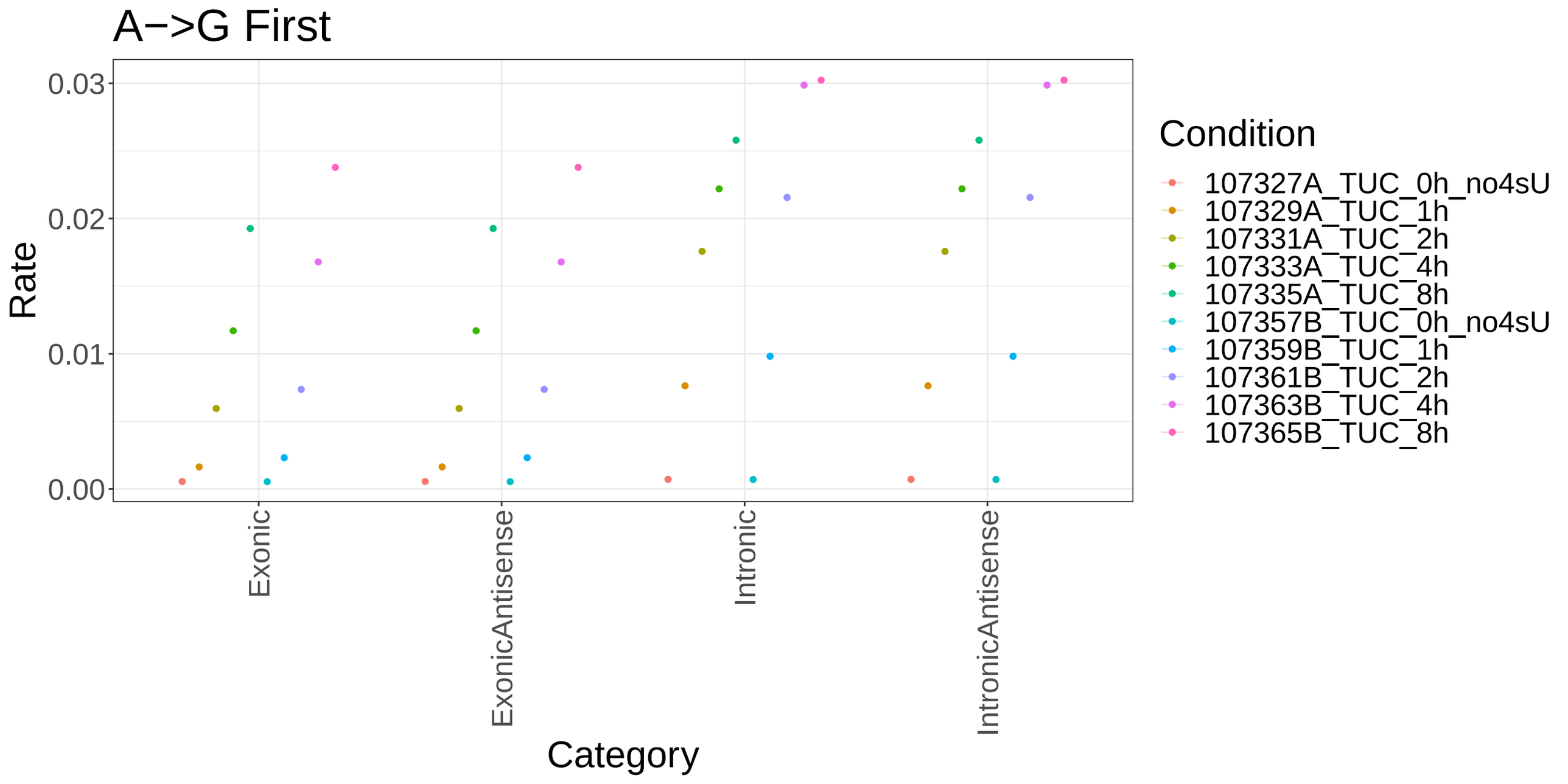

Intronic Second
Rate
0.03
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

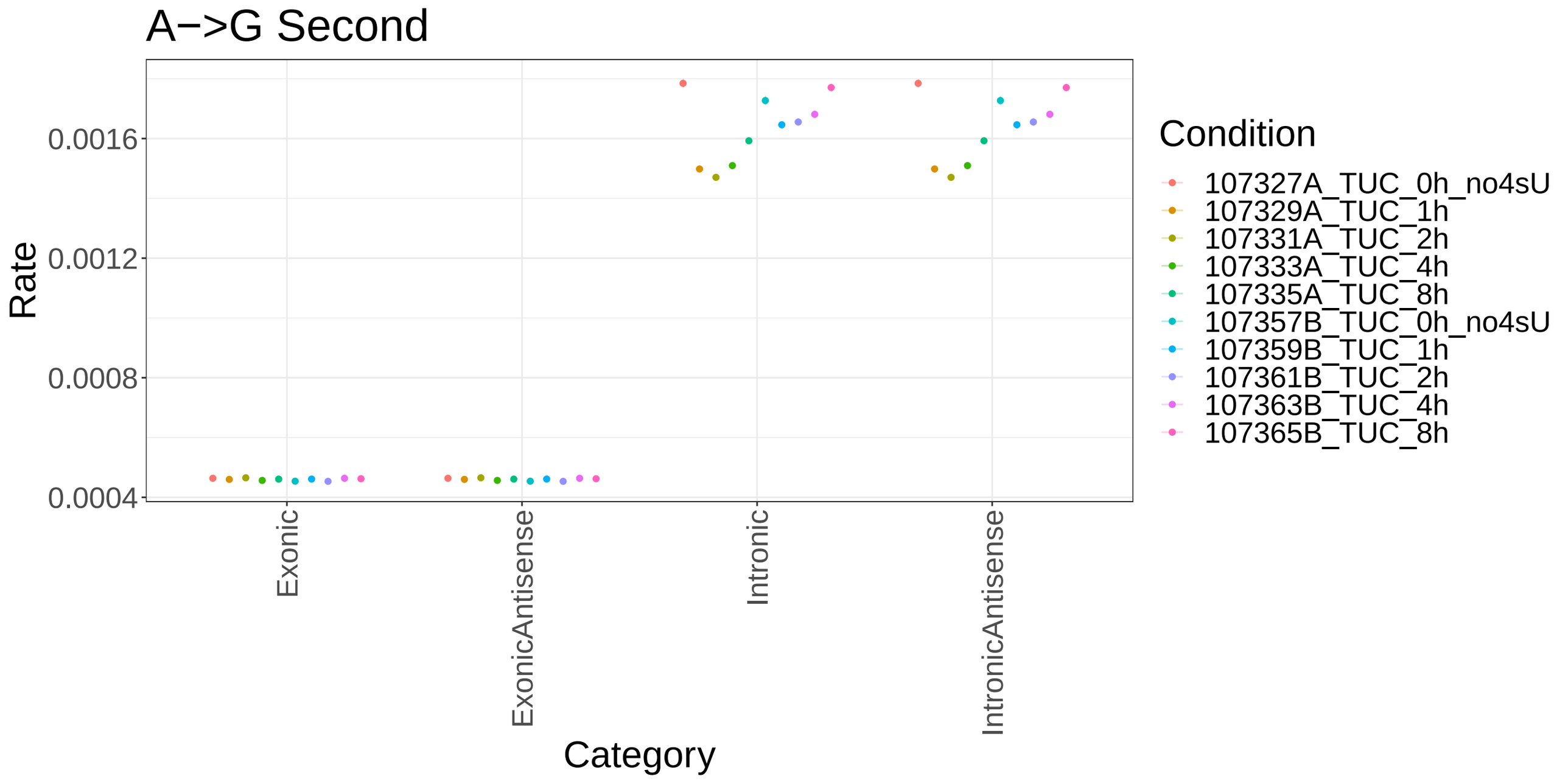

IntronicAntisense First
Rate
0.03
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

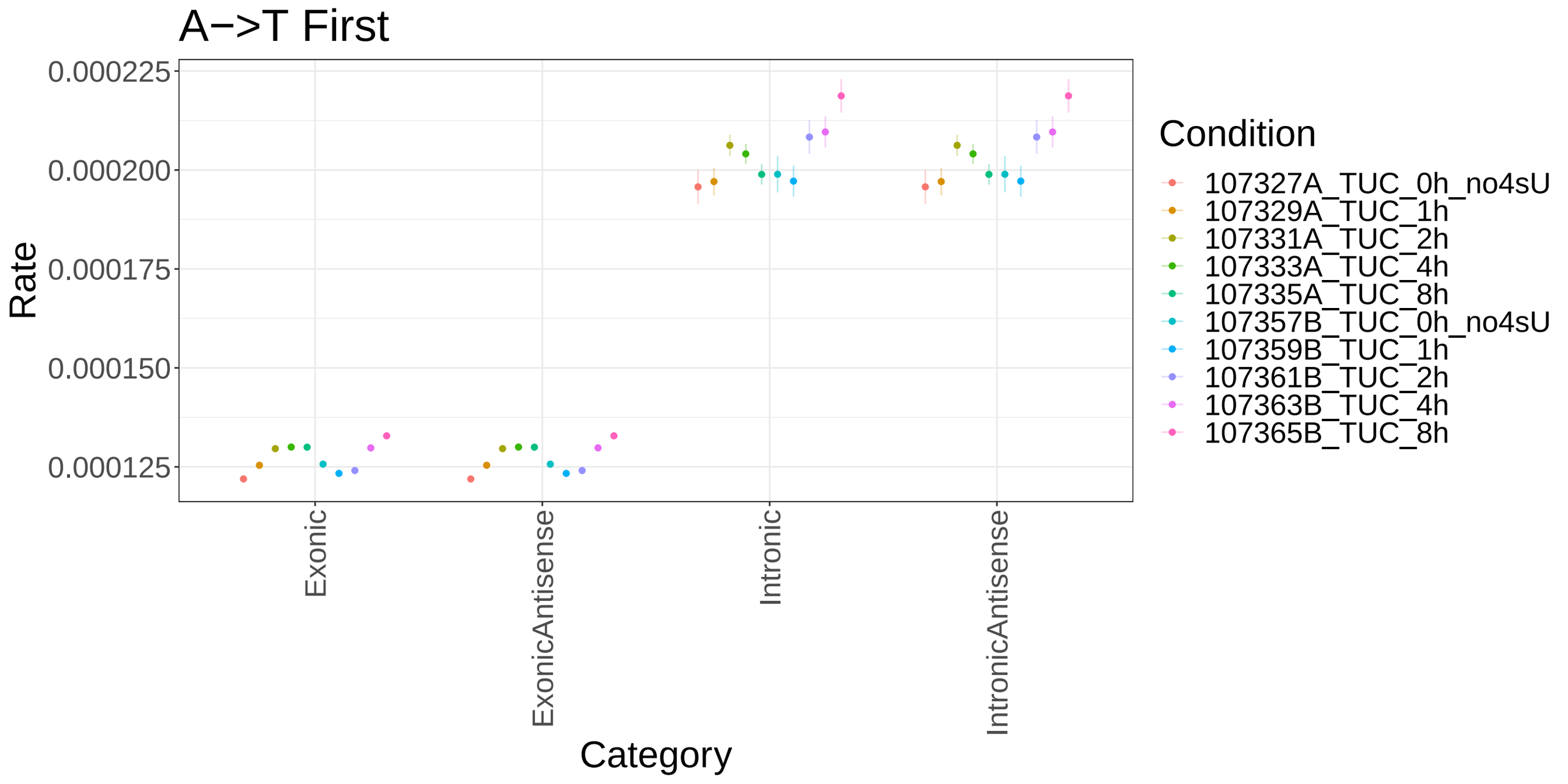

IntronicAntisense Second
Rate
0.03
0.02
0.01
0.00
A−>C
A−>G
A−>T
C−>A
C−>G
C−>T
G−>A
G−>C
G−>T
T−>A
T−>C
T−>G
Mismatch
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

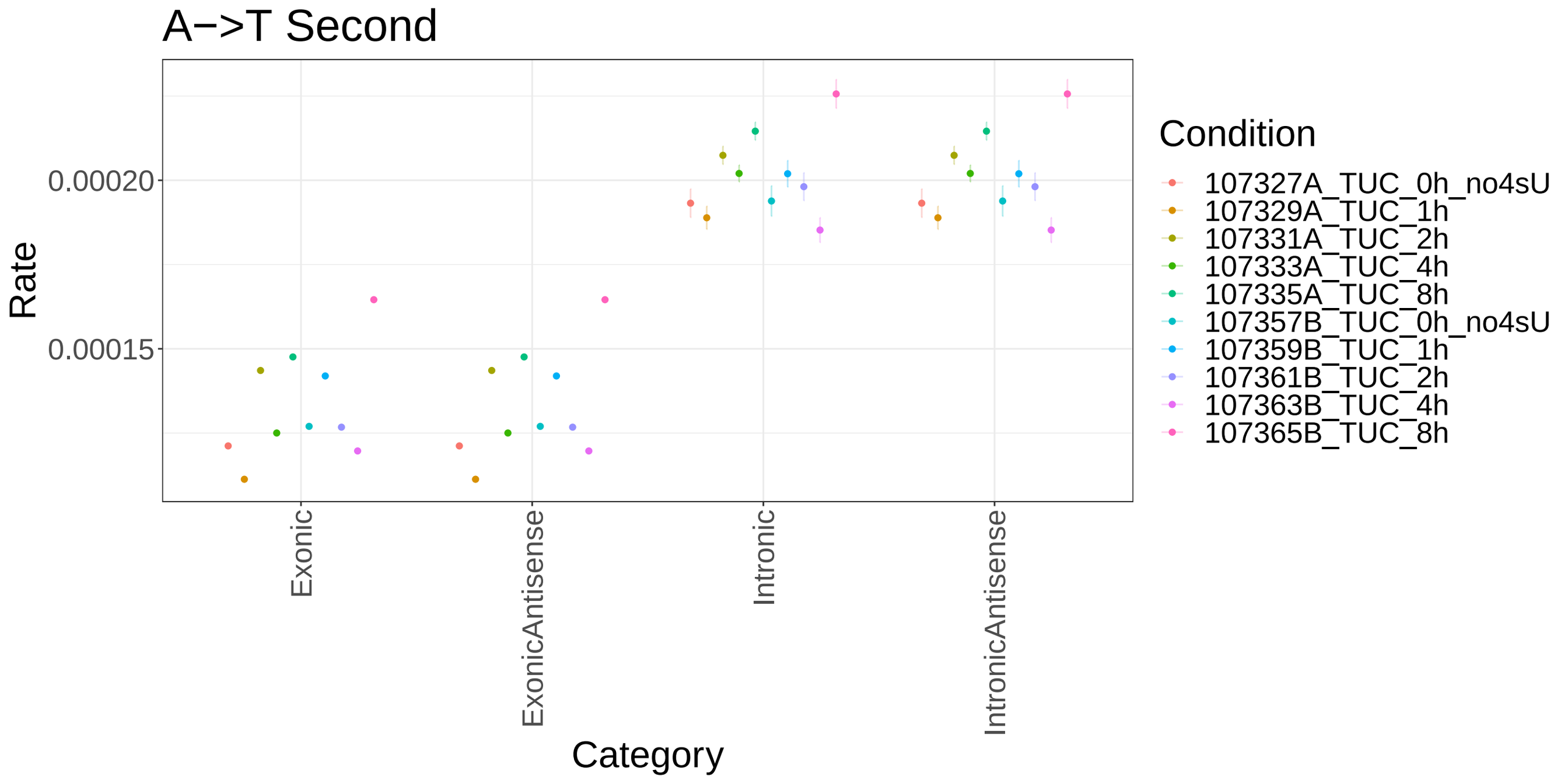

A−>C First
0.00030
0.00028
0.00026
0.00024
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

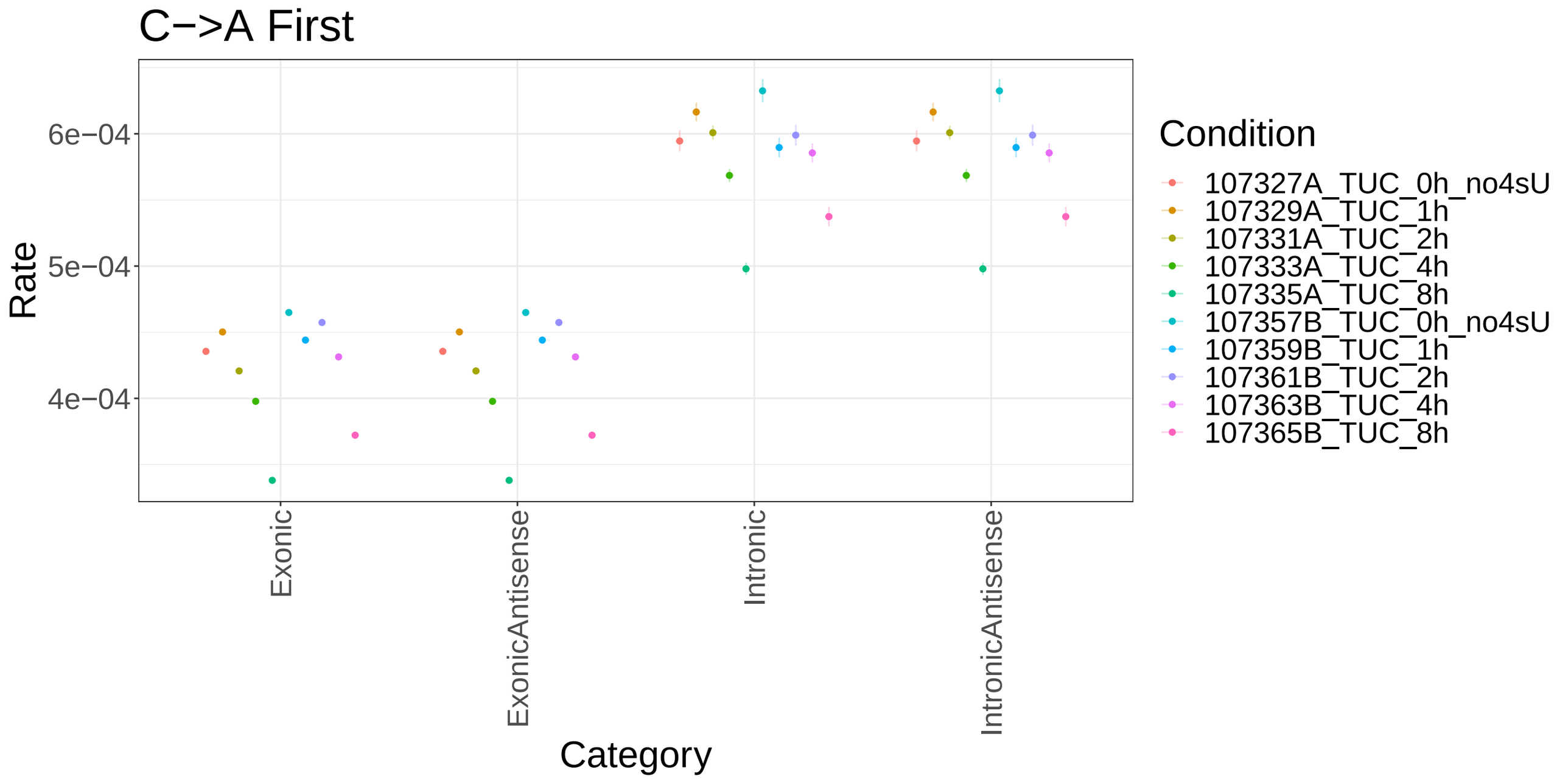

A−>C Second
Rate
9e−04
8e−04
7e−04
6e−04
5e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


A−>G First
0.03
0.02
0.01
0.00
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


A−>G Second
Rate
0.0016
0.0012
0.0008
0.0004
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


A−>T First
Rate
0.000225
0.000200
0.000175
0.000150
0.000125
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


A−>T Second
Rate
0.00020
0.00015
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>A First
Rate
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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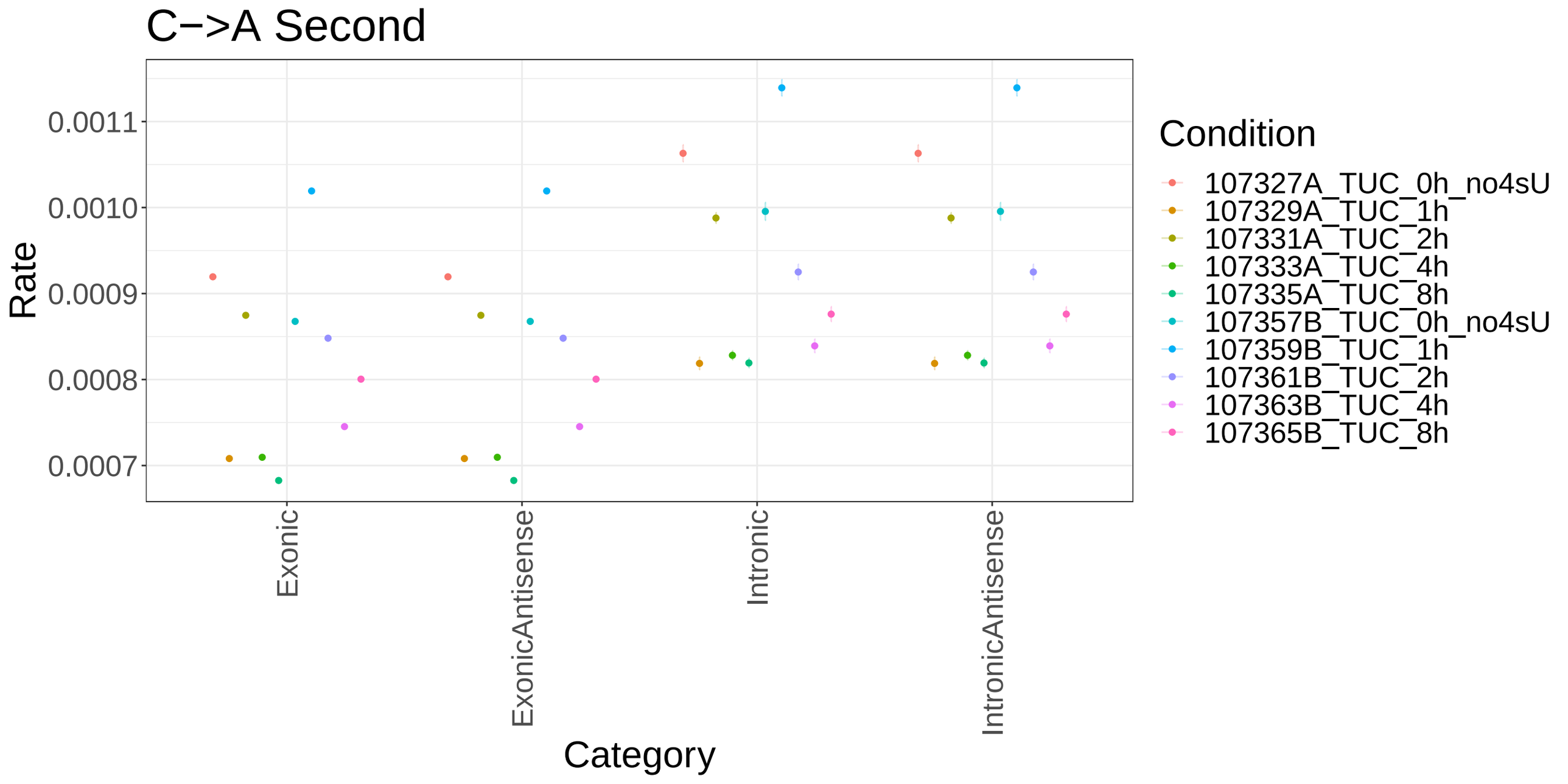
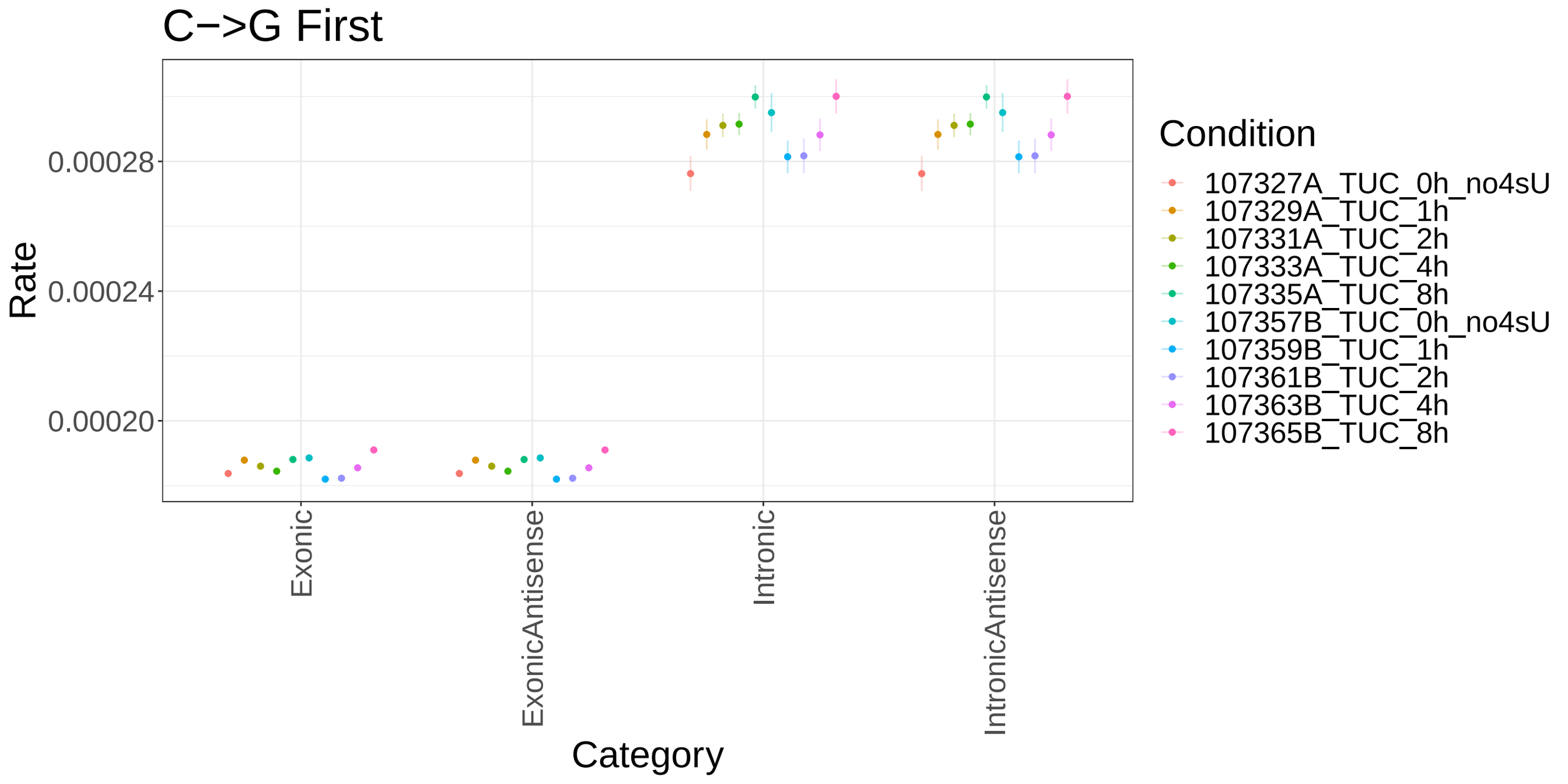
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>A Second
Rate
0.0011
0.0010
0.0009
0.0008
0.0007
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>G First
Rate
0.00028
0.00024
0.00020
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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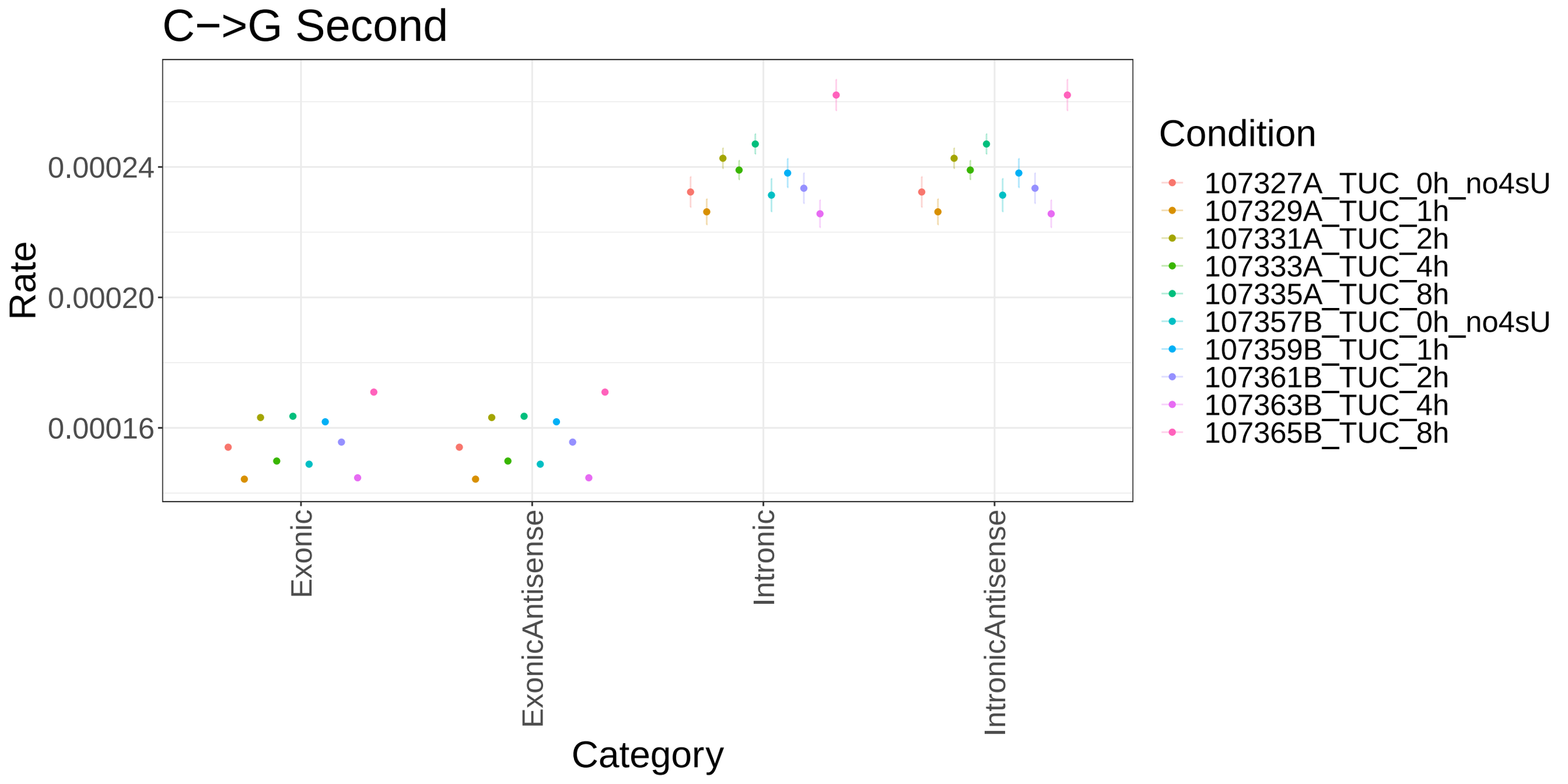
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>G Second
Rate
0.00024
0.00020
0.00016
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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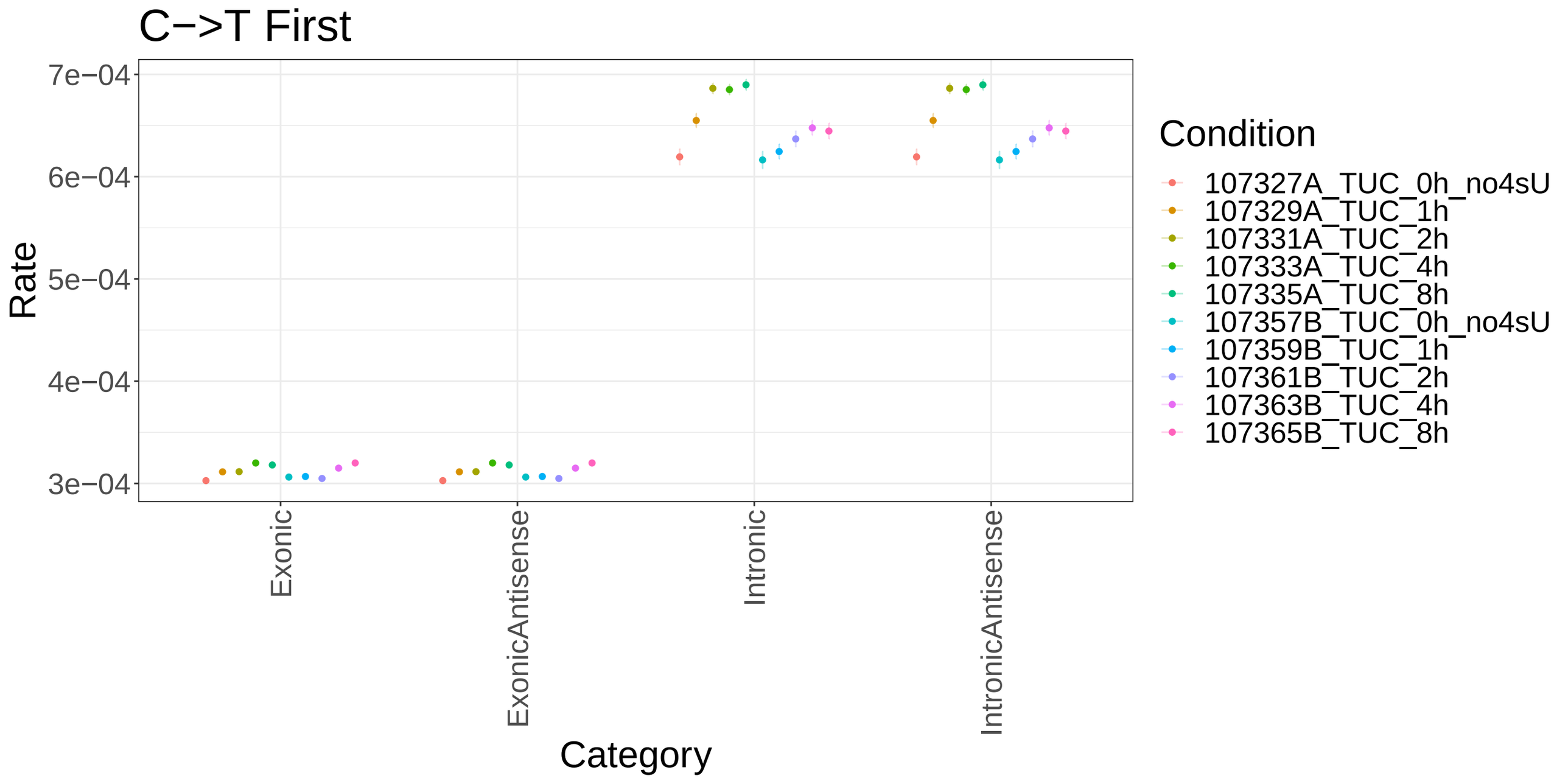
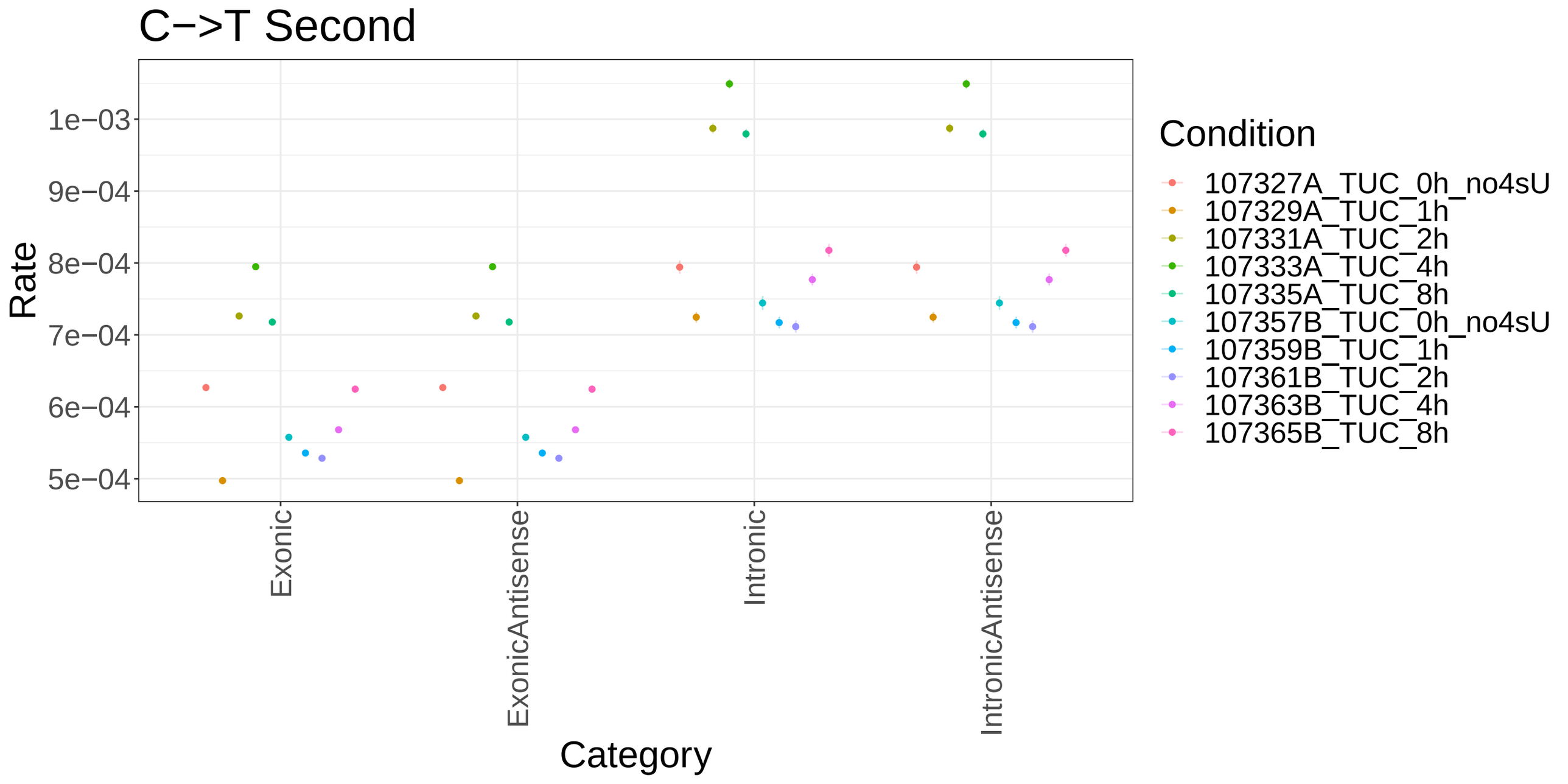
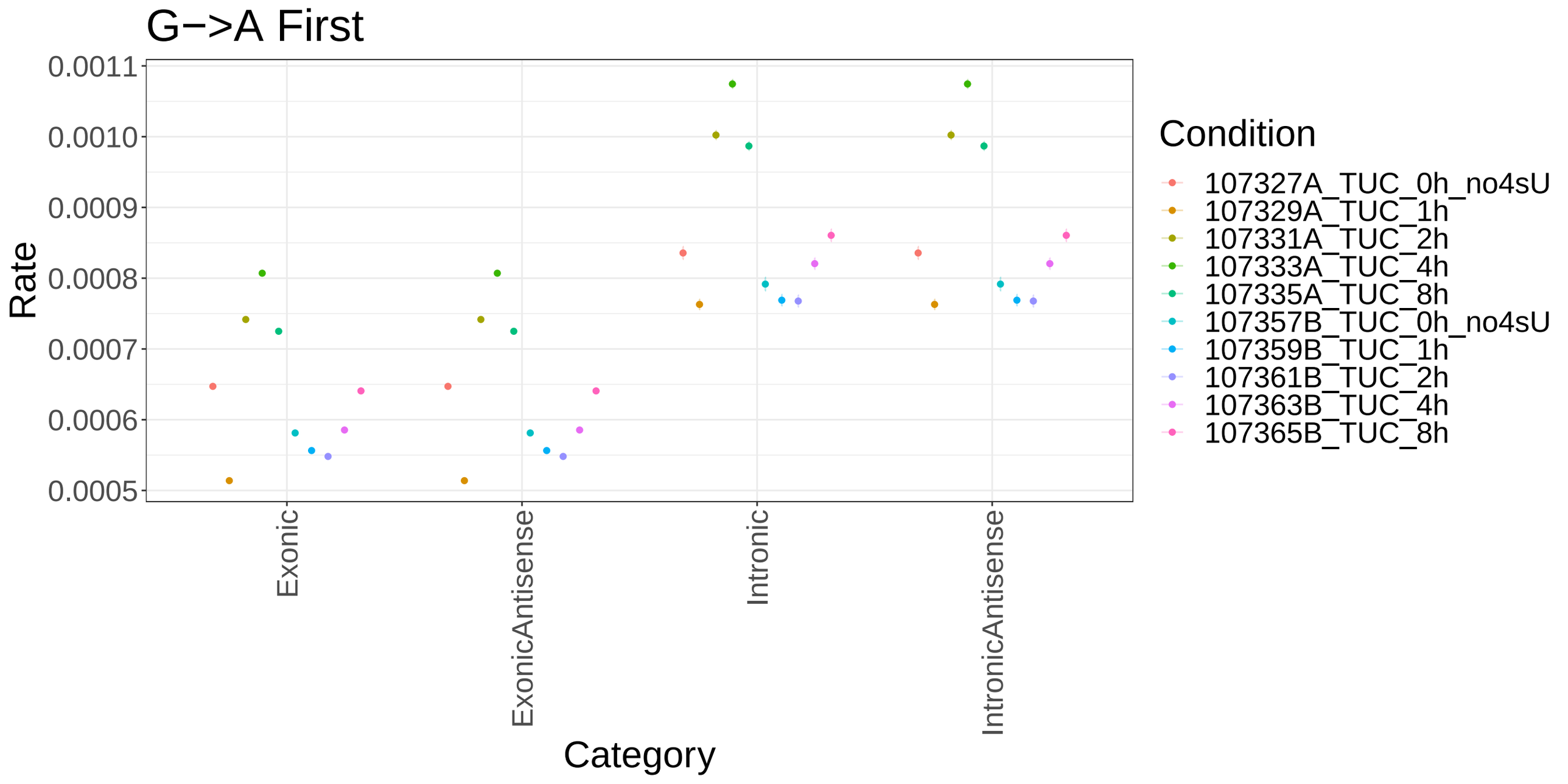
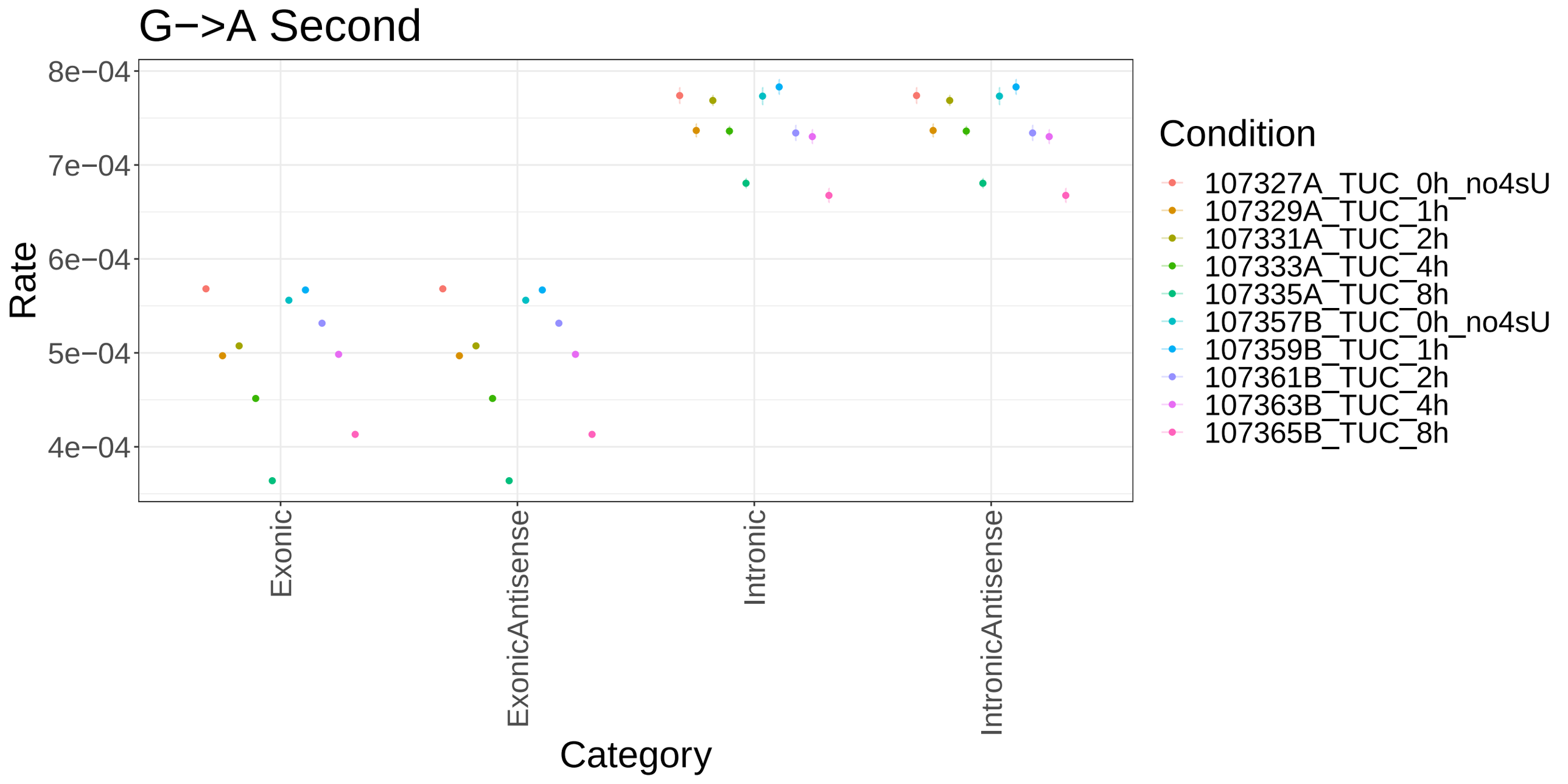
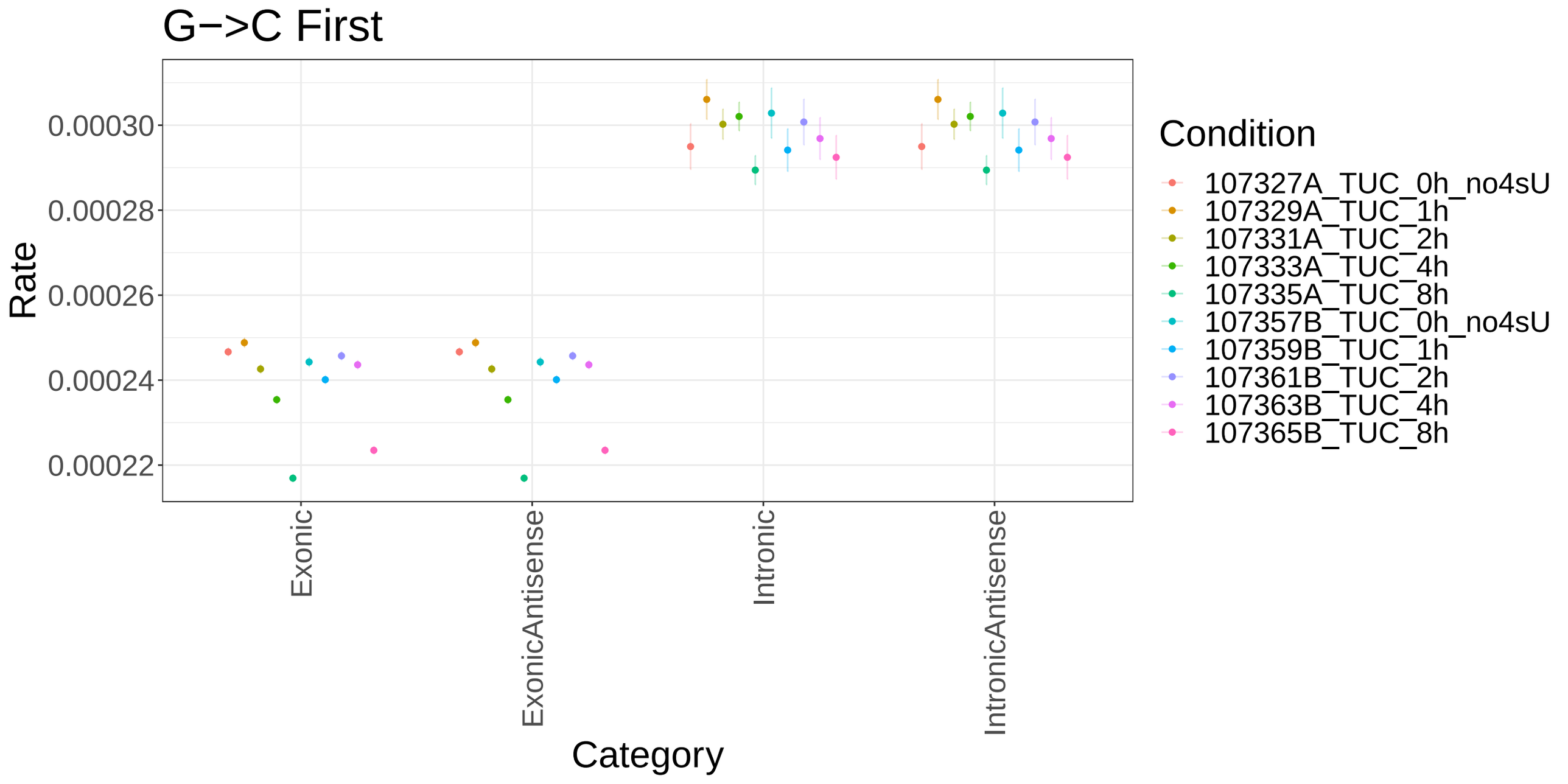
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>T First
7e−04
6e−04
5e−04
4e−04
3e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


C−>T Second
Rate
1e−03
9e−04
8e−04
7e−04
6e−04
5e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>A First
Rate
0.0011
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>A Second
8e−04
7e−04
6e−04
5e−04
4e−04
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>C First
Rate
0.00030
0.00028
0.00026
0.00024
0.00022
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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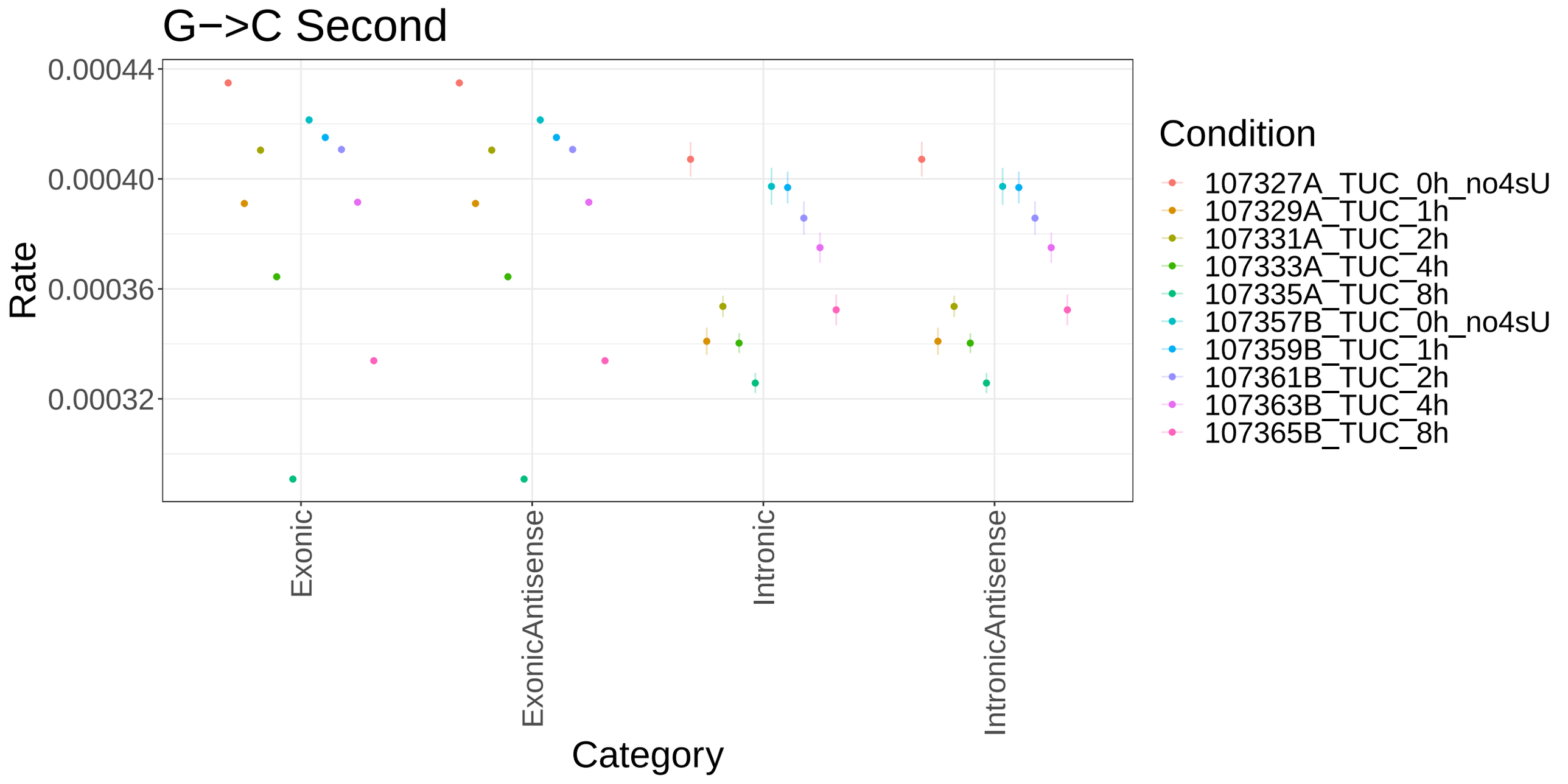
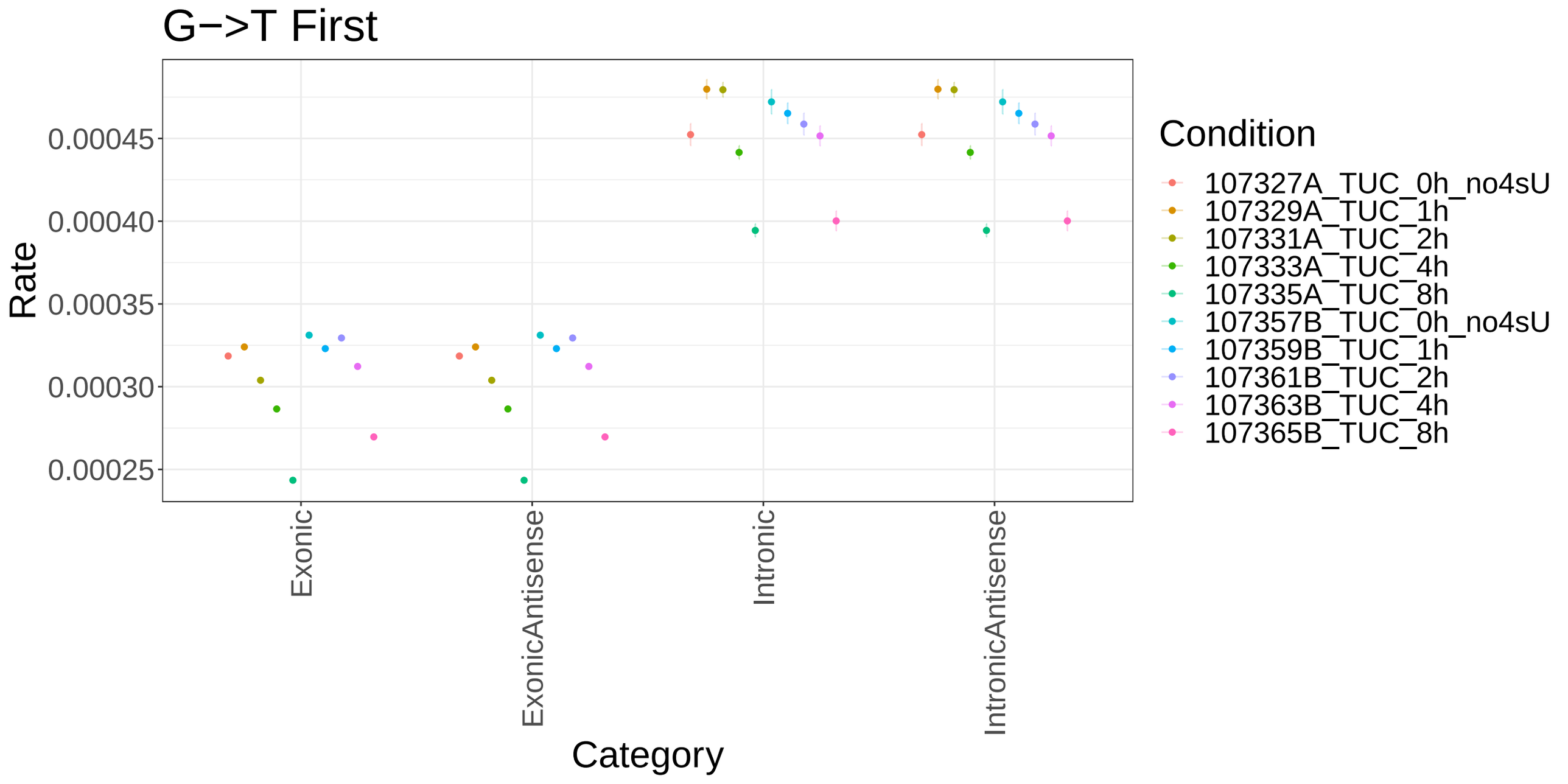
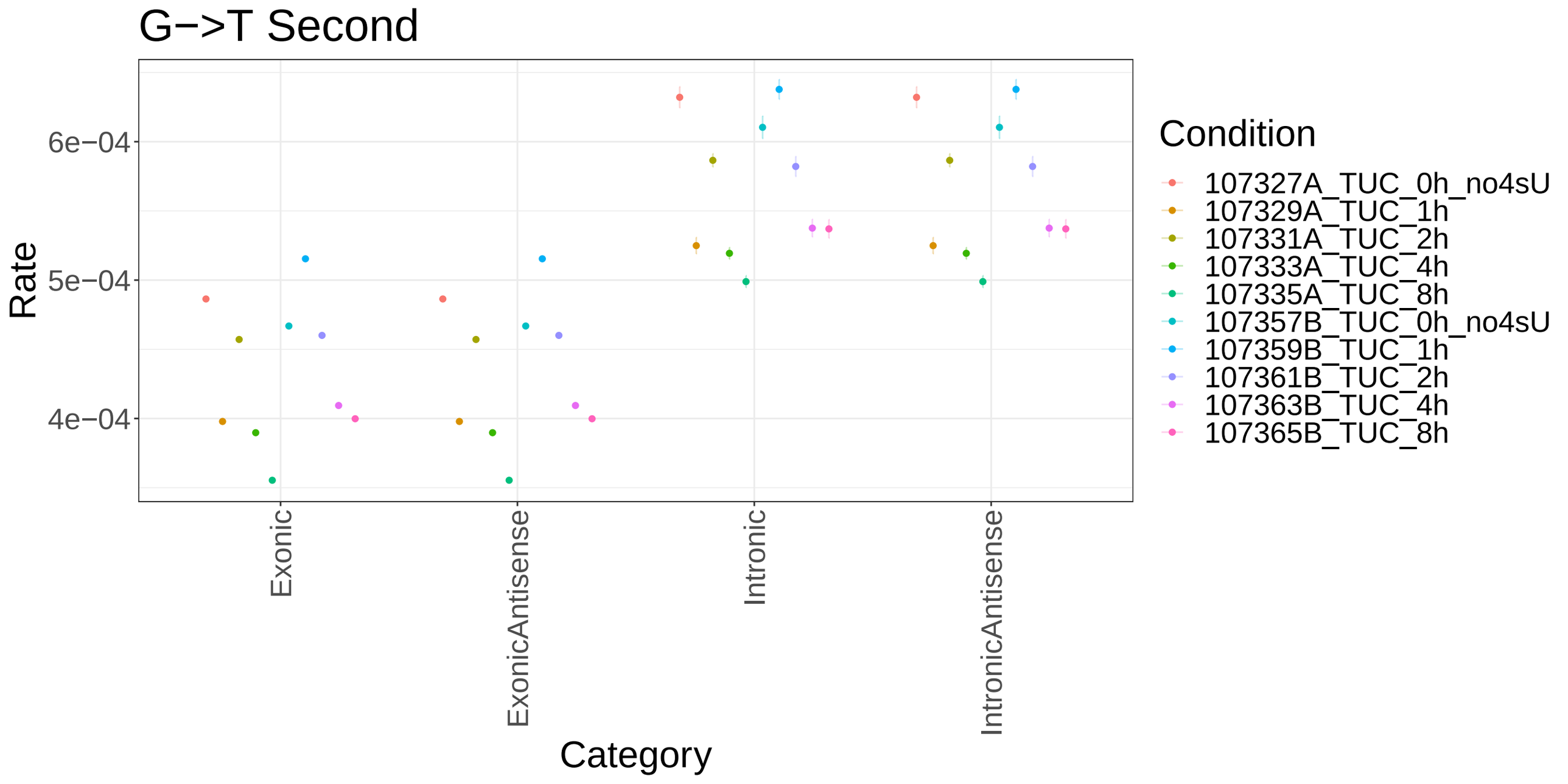
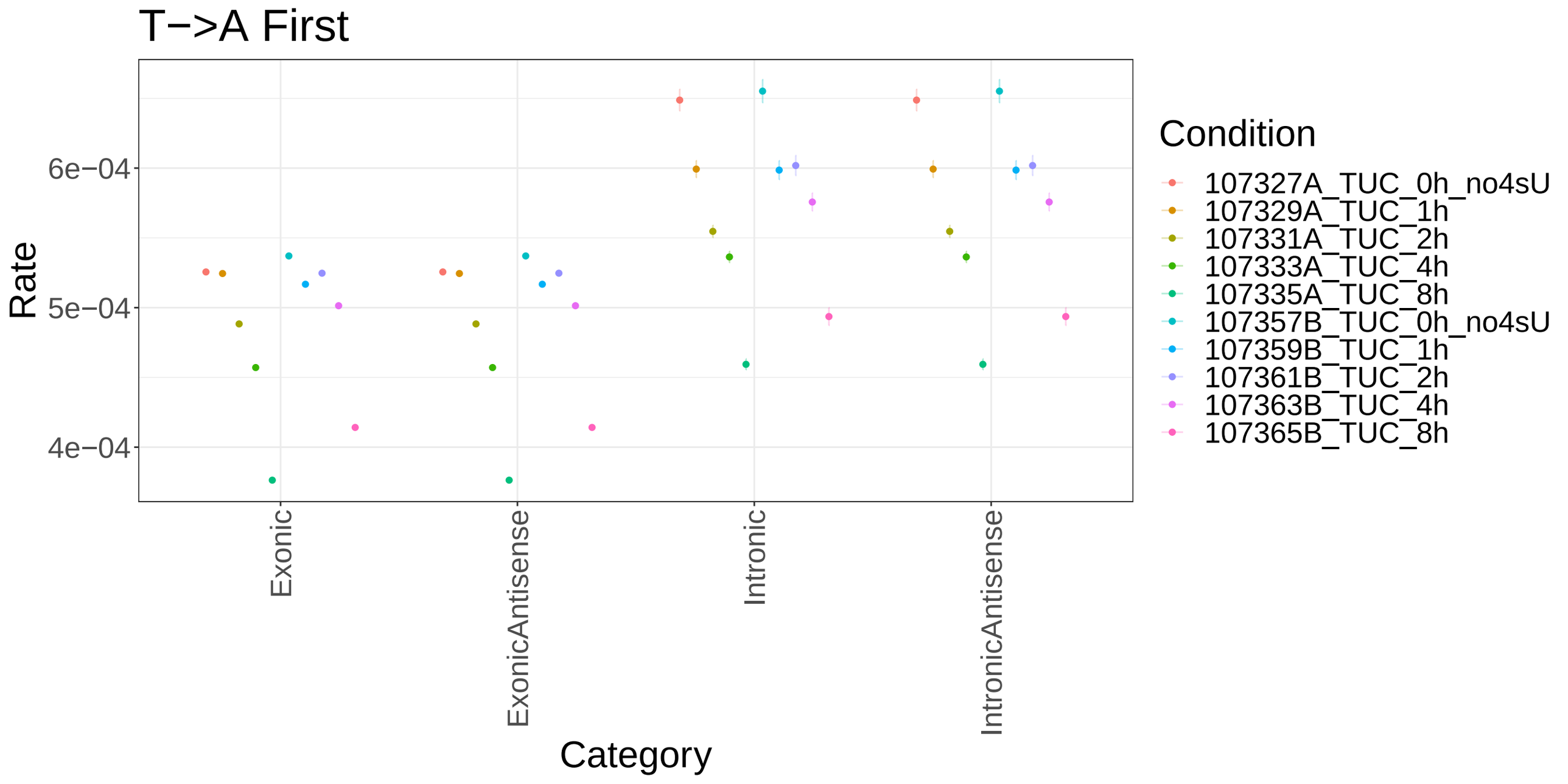
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>C Second
0.00044
0.00040
0.00036
0.00032
Rate
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>T First
Rate
0.00045
0.00040
0.00035
0.00030
0.00025
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


G−>T Second
Rate
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>A First
Rate
6e−04
5e−04
4e−04
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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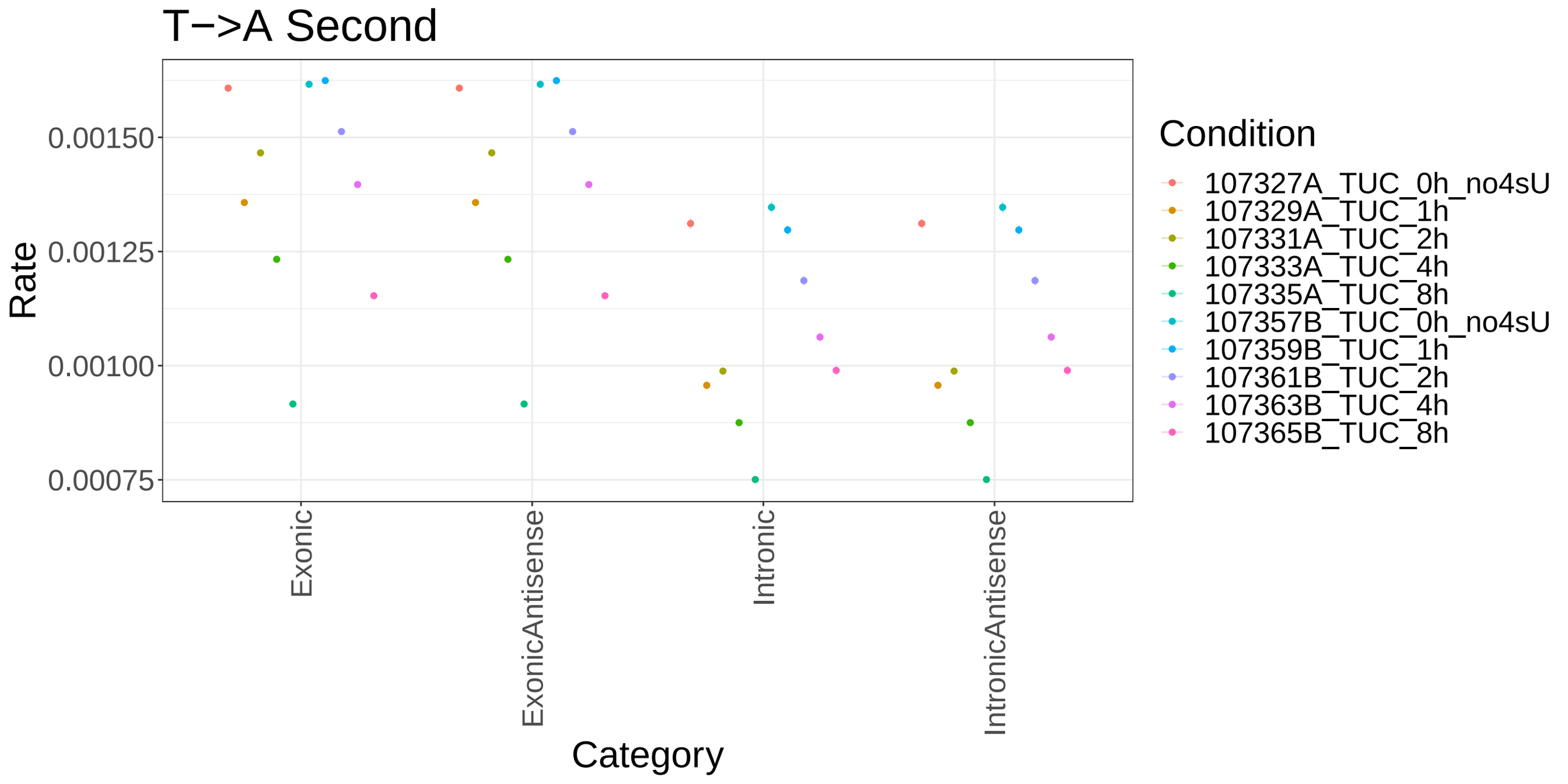
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>A Second
Rate
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0.00100
0.00075
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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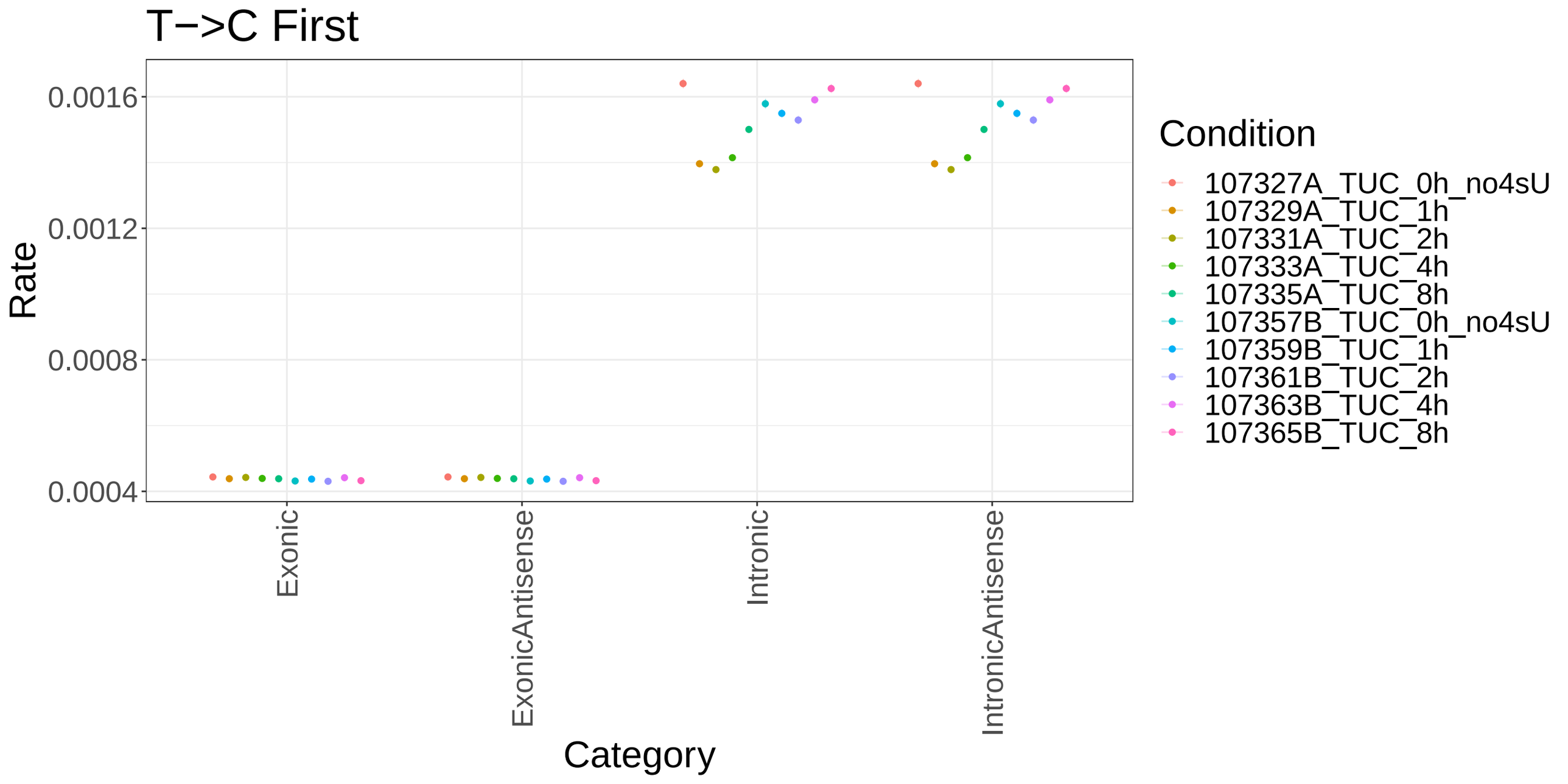
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>C First
Rate
0.0016
0.0012
0.0008
0.0004
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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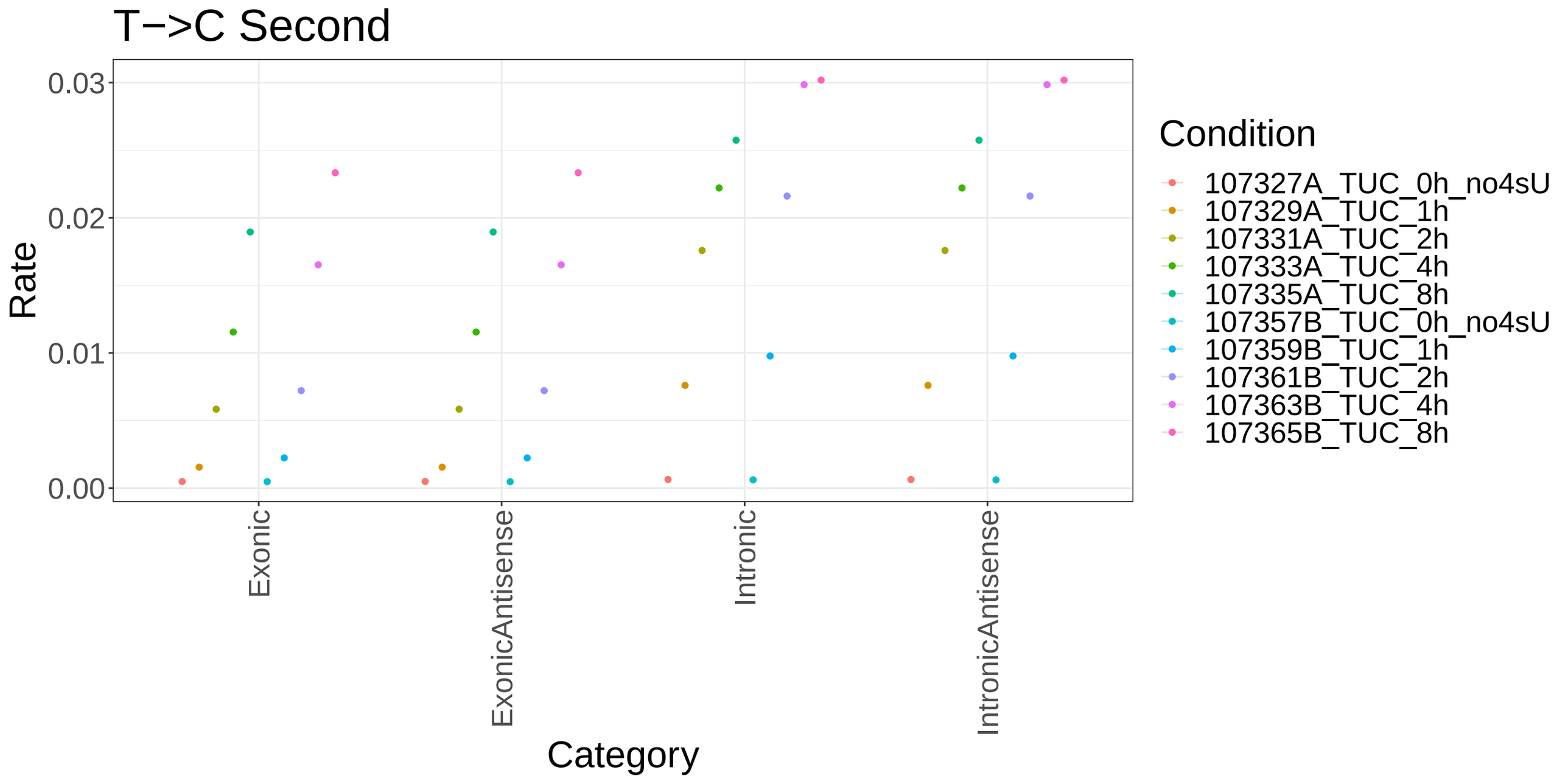
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>C Second
Rate
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0.02
0.01
0.00
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
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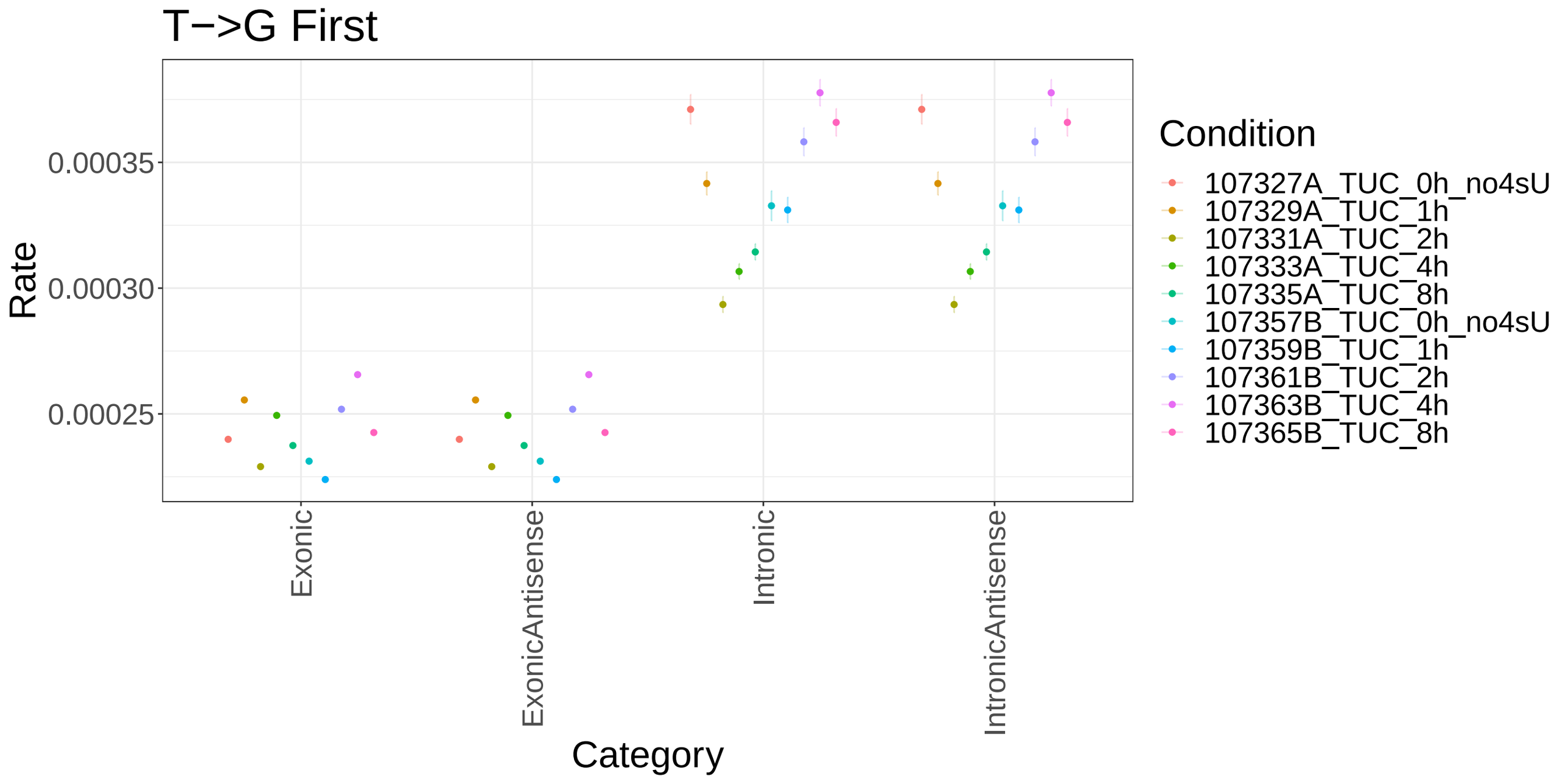
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>G First
Rate
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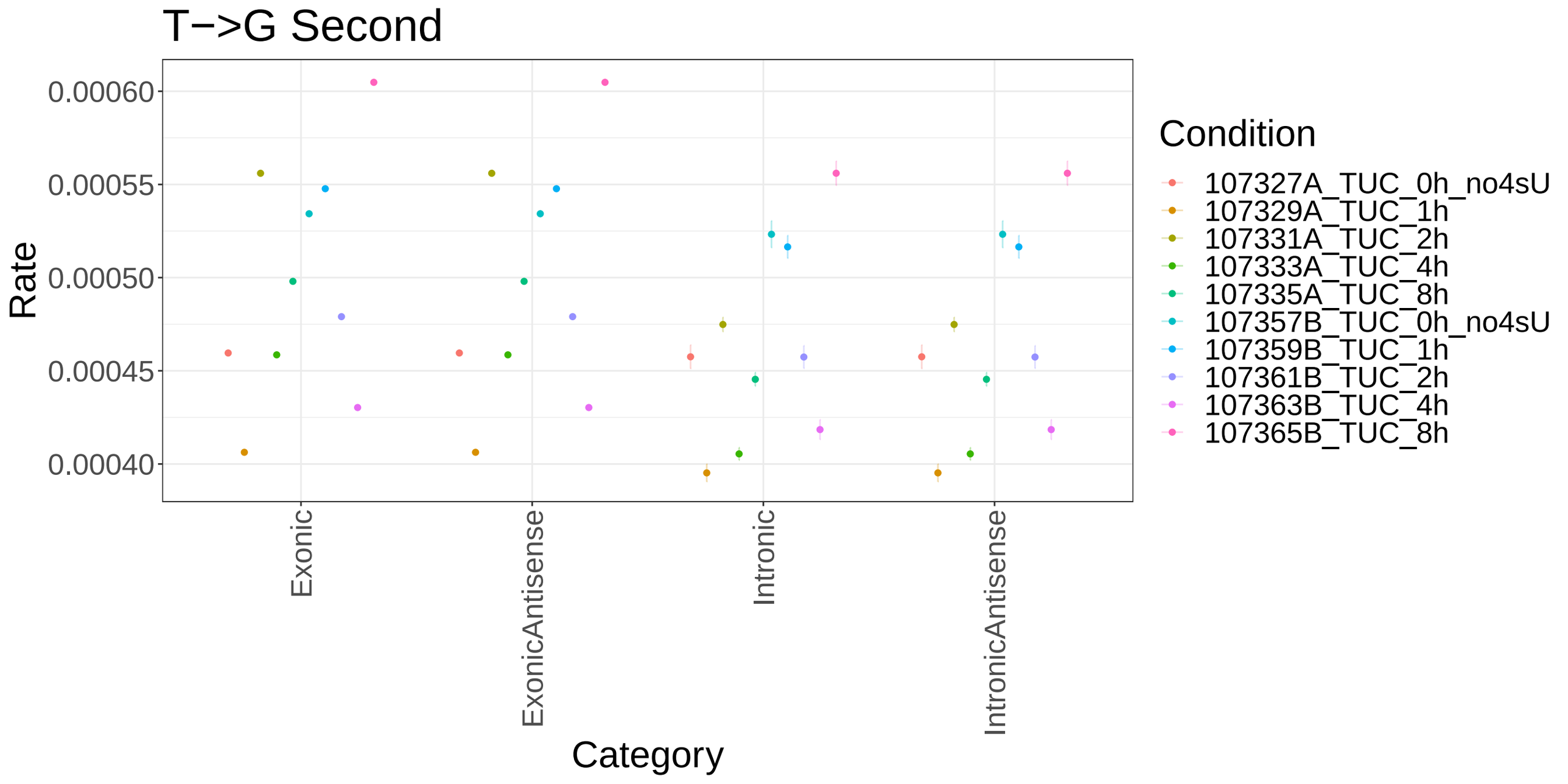
0.00030
0.00025
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h


T−>G Second
Rate
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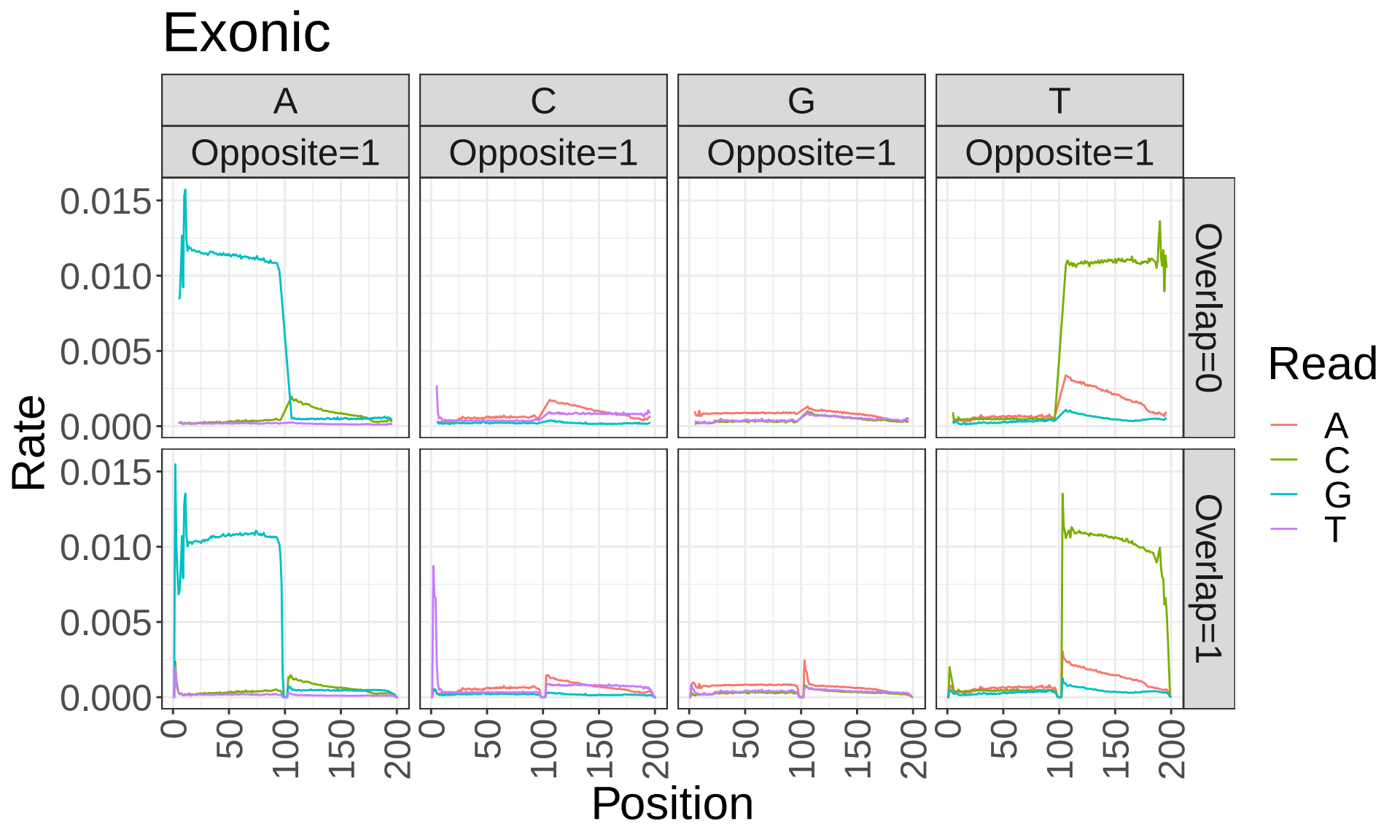
0.00050
0.00045
0.00040
Exonic
ExonicAntisense
Intronic
IntronicAntisense
Category
Condition
107327A_TUC_0h_no4sU
107329A_TUC_1h
107331A_TUC_2h
107333A_TUC_4h
107335A_TUC_8h
107357B_TUC_0h_no4sU
107359B_TUC_1h
107361B_TUC_2h
107363B_TUC_4h
107365B_TUC_8h

SLAM


Exonic
A
C
G
T
Opposite=1
Opposite=1
Opposite=1
Opposite=1
Overlap=0
Overlap=1
Rate
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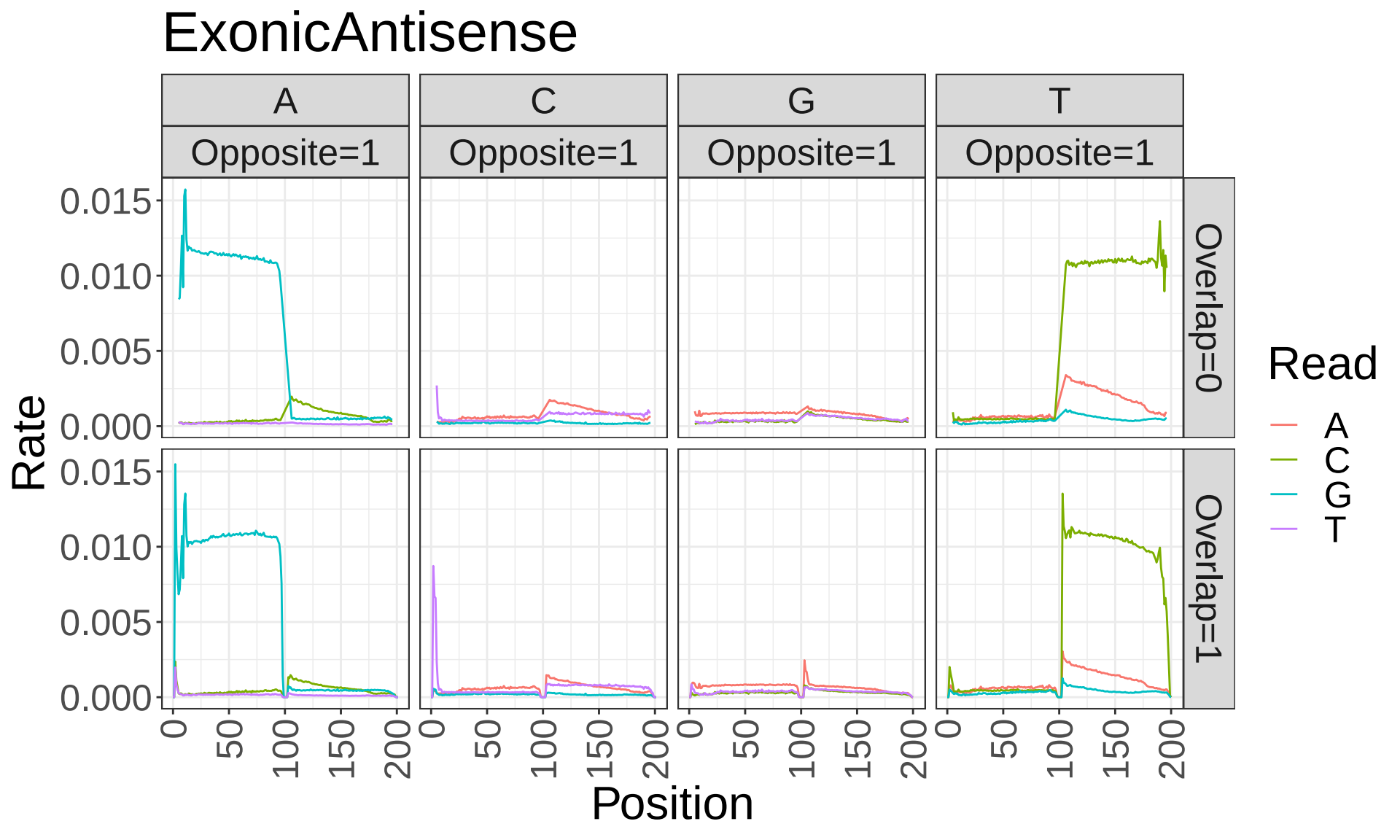
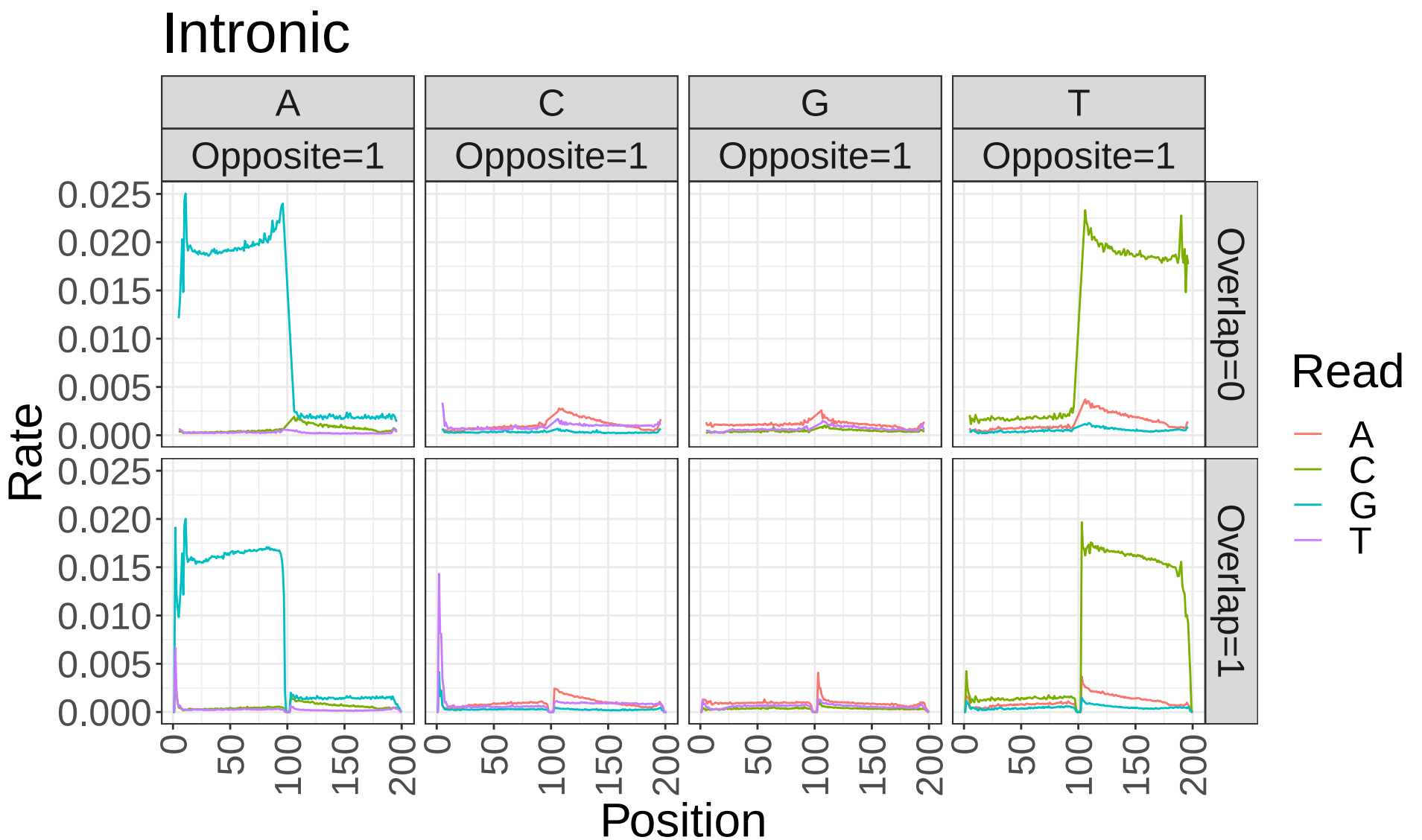
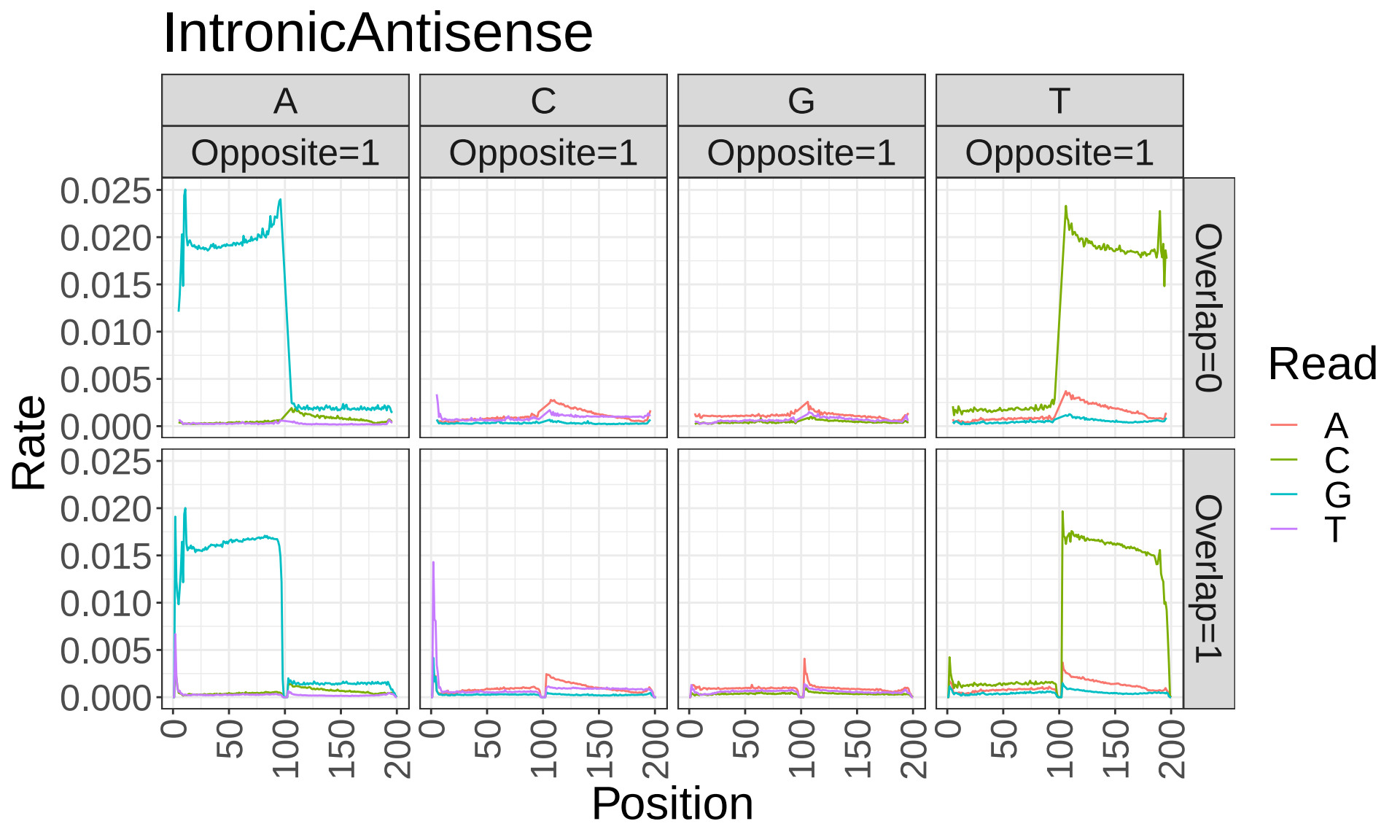
0.010
0.005
0.000
0
50
100
150
200
Position
Read
A
C
G
T


ExonicAntisense
A
C
G
T
Opposite=1
Overlap=0
Overlap=1
Rate
0.015
0.010
0.005
0.000
0
50
100
150
200
Position
Read
A
C
G
T


Intronic
A
C
G
T
Opposite=1
Opposite=1
Opposite=1
Opposite=1
Overlap=0
Overlap=1
Rate
0.025
0.020
0.015
0.010
0.005
0.000
0
50
100
150
200
Position
Read
A
C
G
T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G
T
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0.005
0.000
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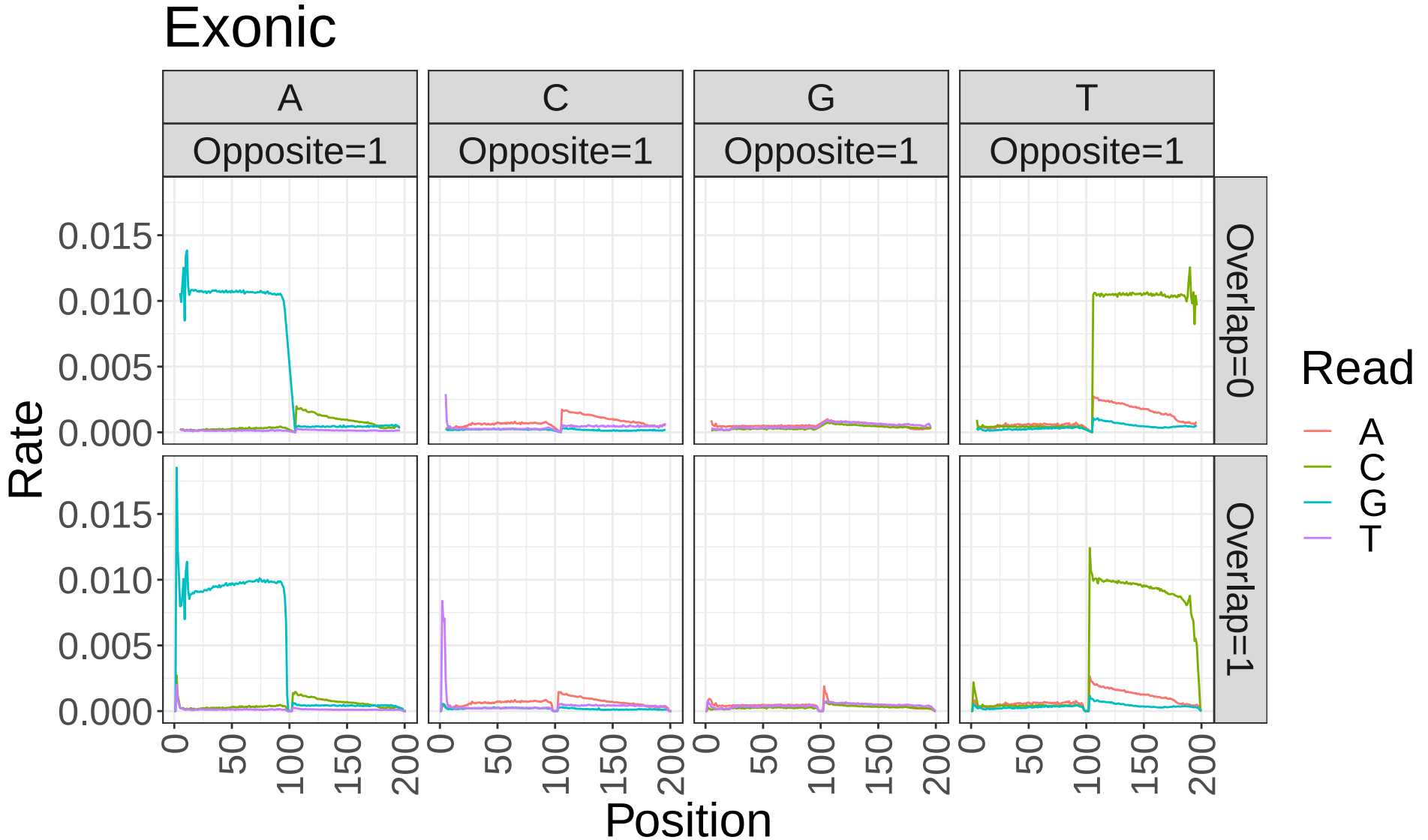
200
Position
Read
A
C
G
T

TLS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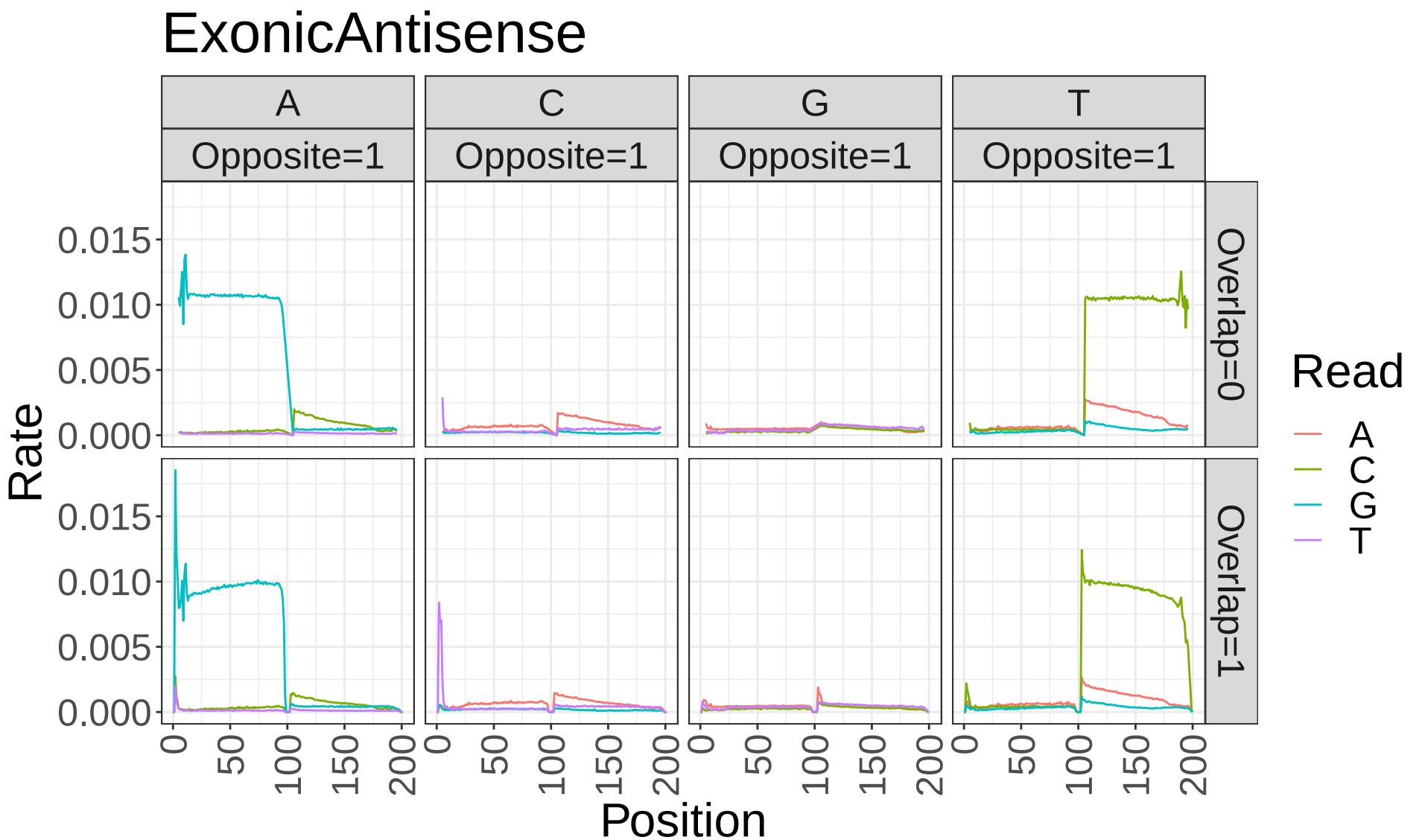
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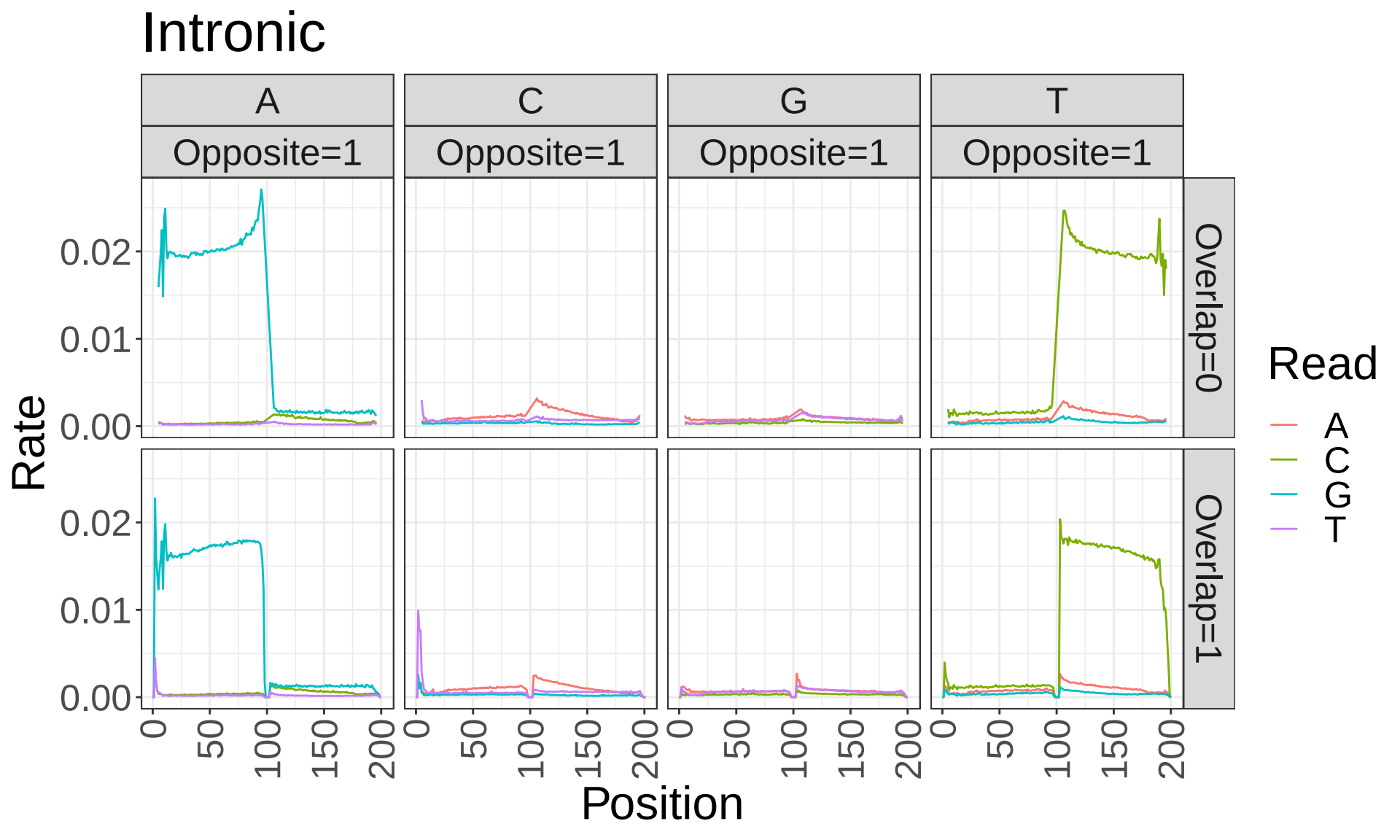
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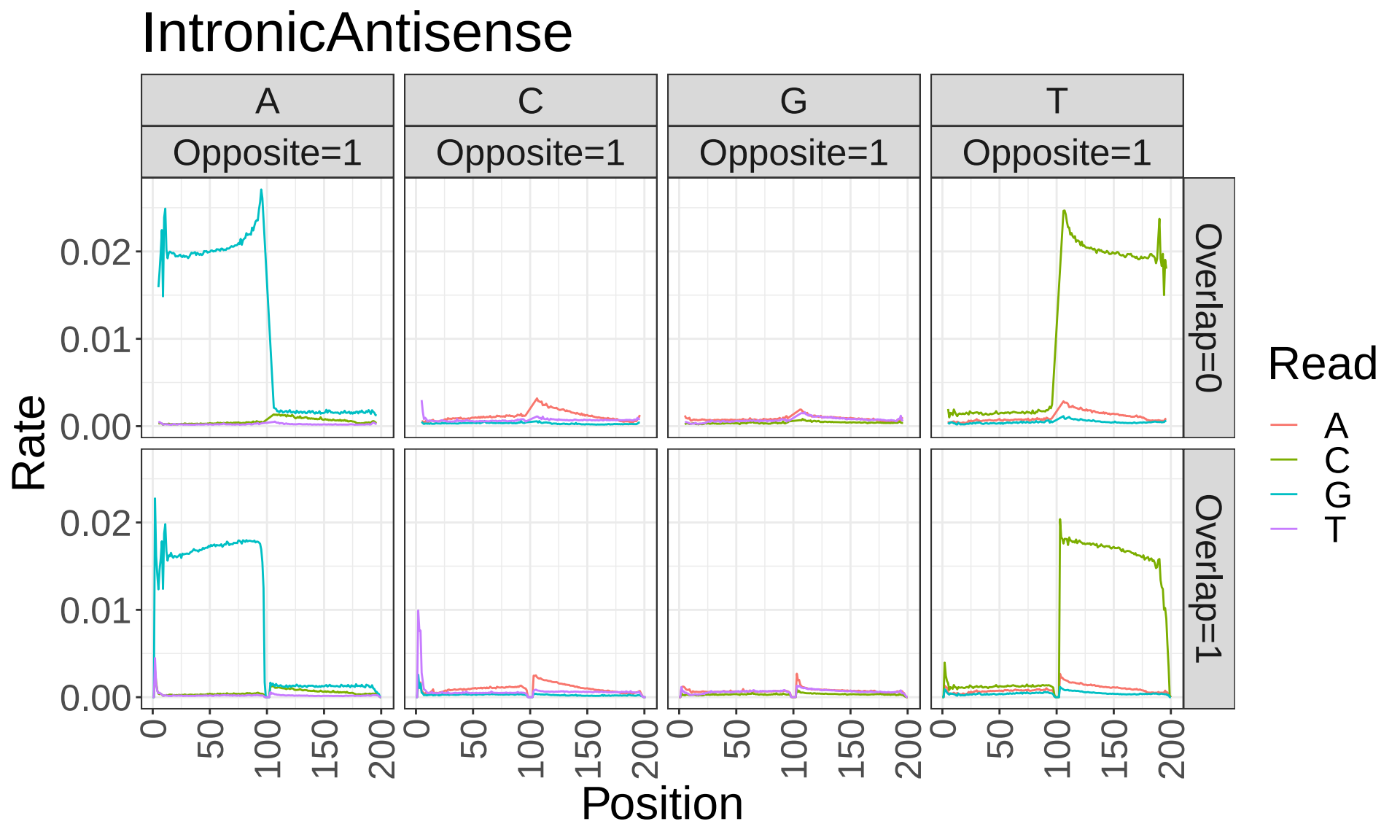
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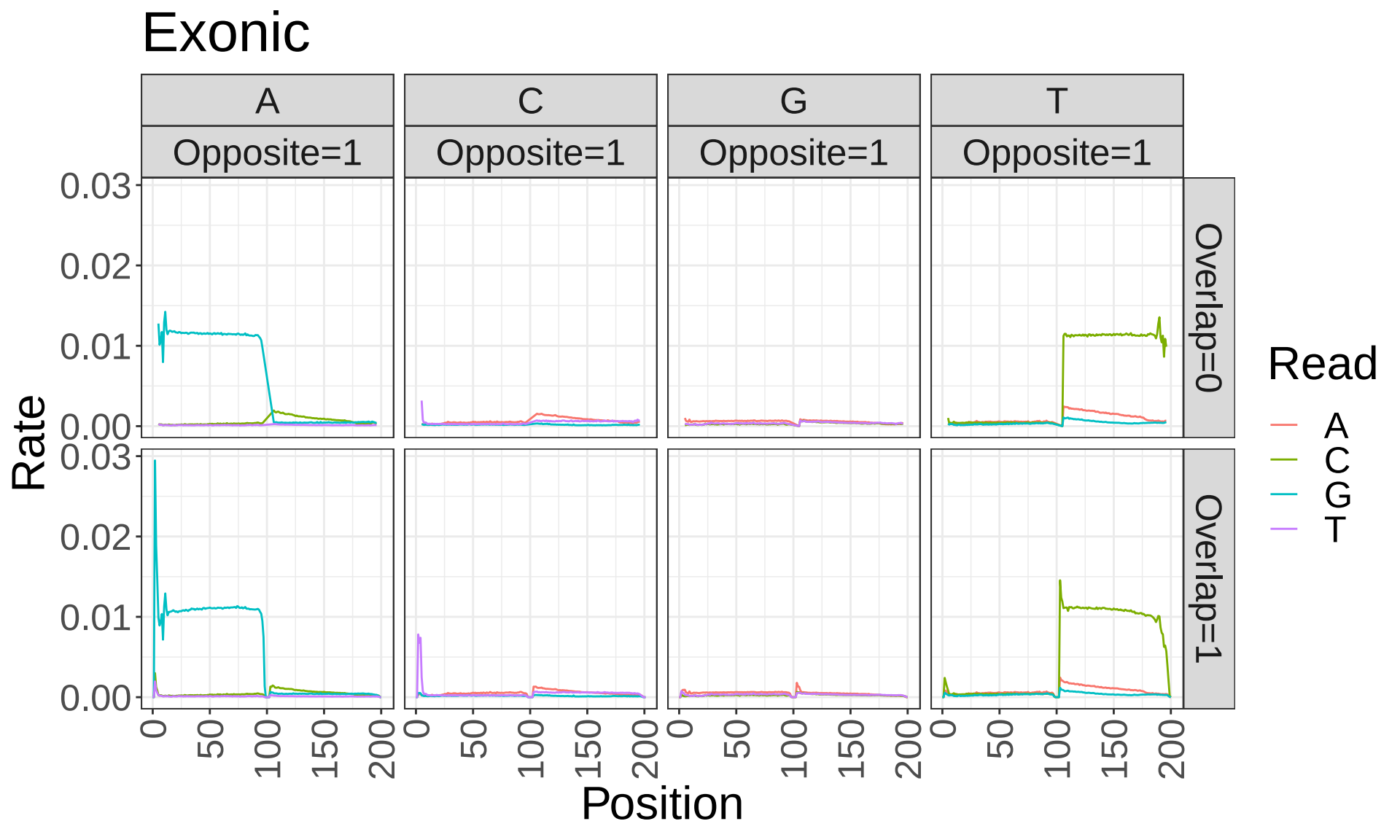
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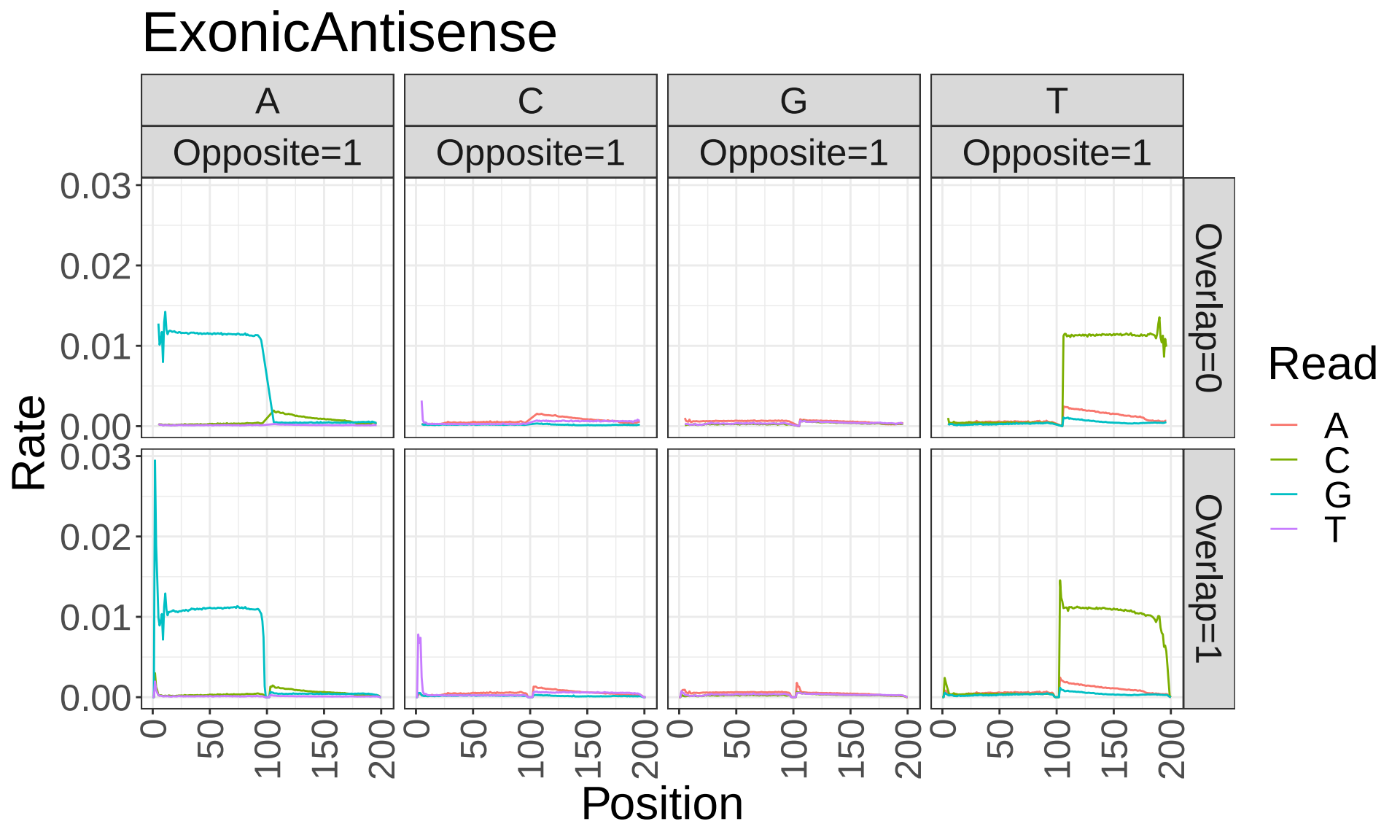
ExonicAntisense
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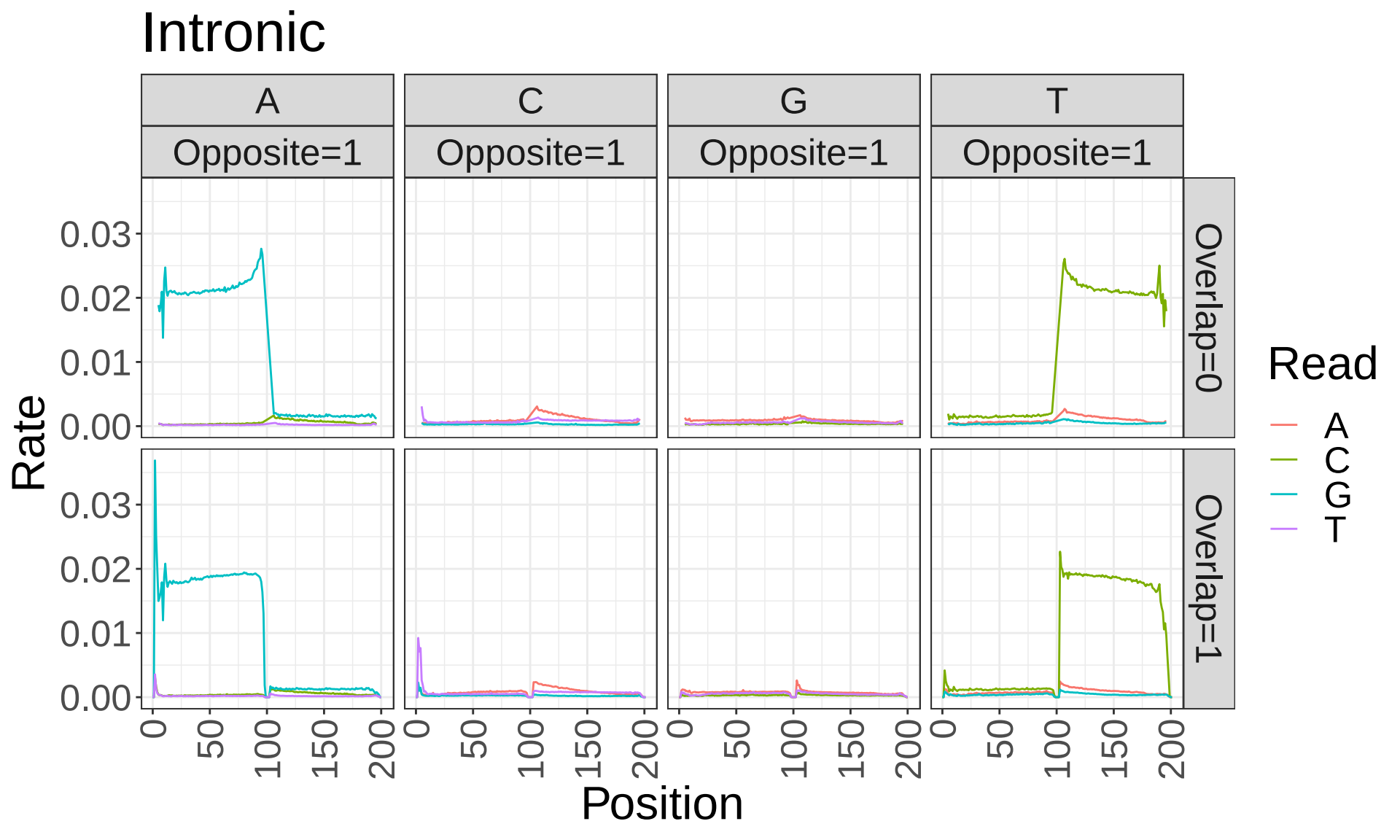
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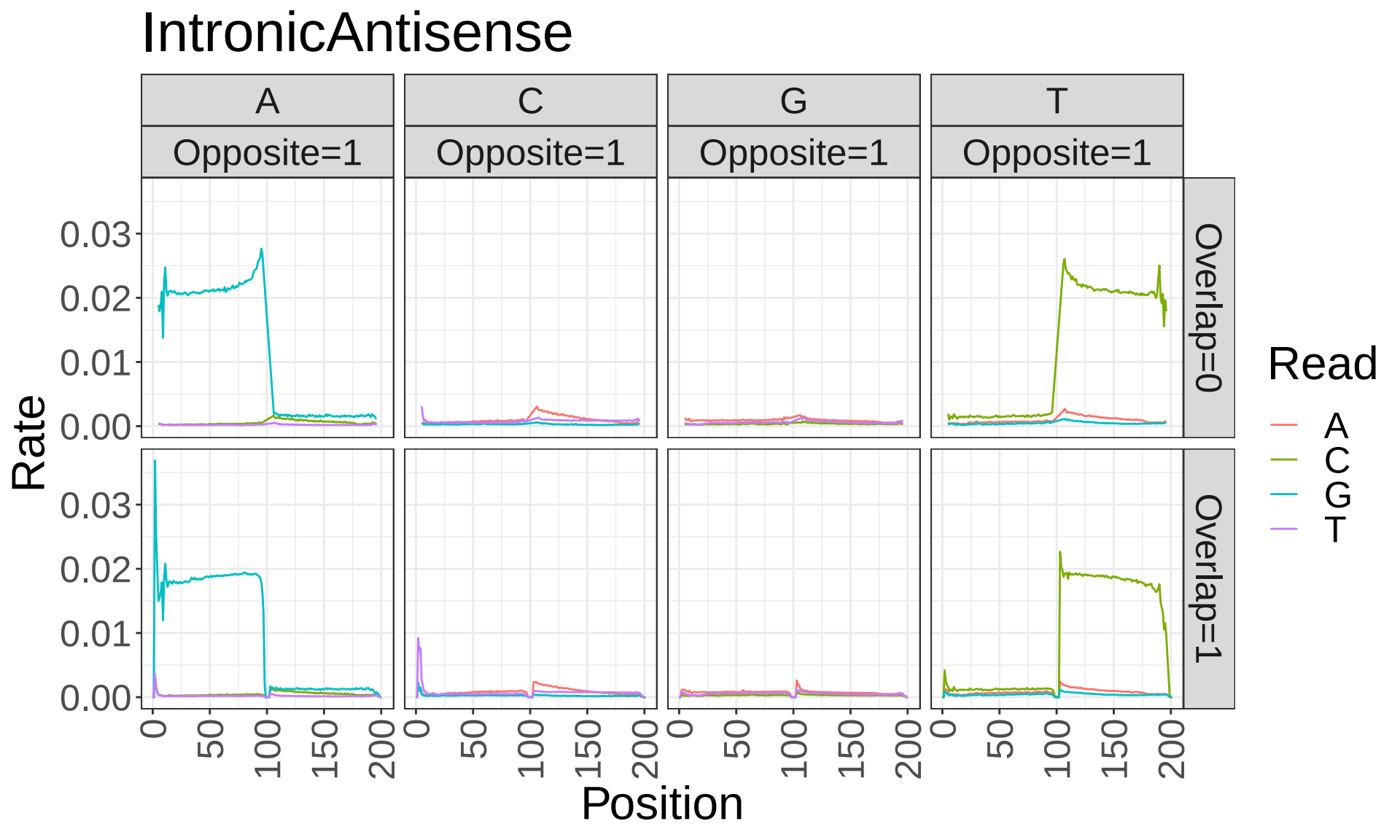
IntronicAntisense
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