NCAP_SARS2

0e79dac1−5600−487d−b4b9−5c7a5c9999db|123 NC

−log10(GMM_logit_pvalue)

0.75

0.50

0.25

0.00

0.0

0.5

1.0

1.5

2.0

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

NCAP_SARS2

2508ba22−e0f0−4f86−837f−728927b123c5|209 NC

−log10(GMM_logit_pvalue)

1.5

1.0

0.5

0.0

0.0

0.5

1.0

1.5

2.0

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

NCAP_SARS2

31f63690−13b9−4e8e−bca5−6a5019782682|1194 NC

−log10(GMM_logit_pvalue)

1.2
0.8
0.4
0.0

0.0
0.5
1.0
1.5
2.0

abs(as.numeric(Logit_LOR))

fragment_ID
- No_Fragment
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

SPIKE_SARS2

3f2f5640−da4a−4237−952f−cd4a41e84234|315 C

CUUUU (29579)

CUCUU (29605)

AUCUU (29676)

UUUUA (29819)

UGCUC (28923)

CCAAU (24464)

UGAAA (29403)

GCCAC (29716)

−log10(GMM_logit_pvalue)

4

3

2

1

0

0.0

0.5

1.0

1.5

2.0

2.5

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

VME1_SARS2

4167c2ea−24da−4951−a5e2−58927d55509a|143 C

CUUUU (29579)

GACAA (29383)

−log10(GMM_logit_pvalue)

6

4

2

0

0.0

0.5

1.0

1.5

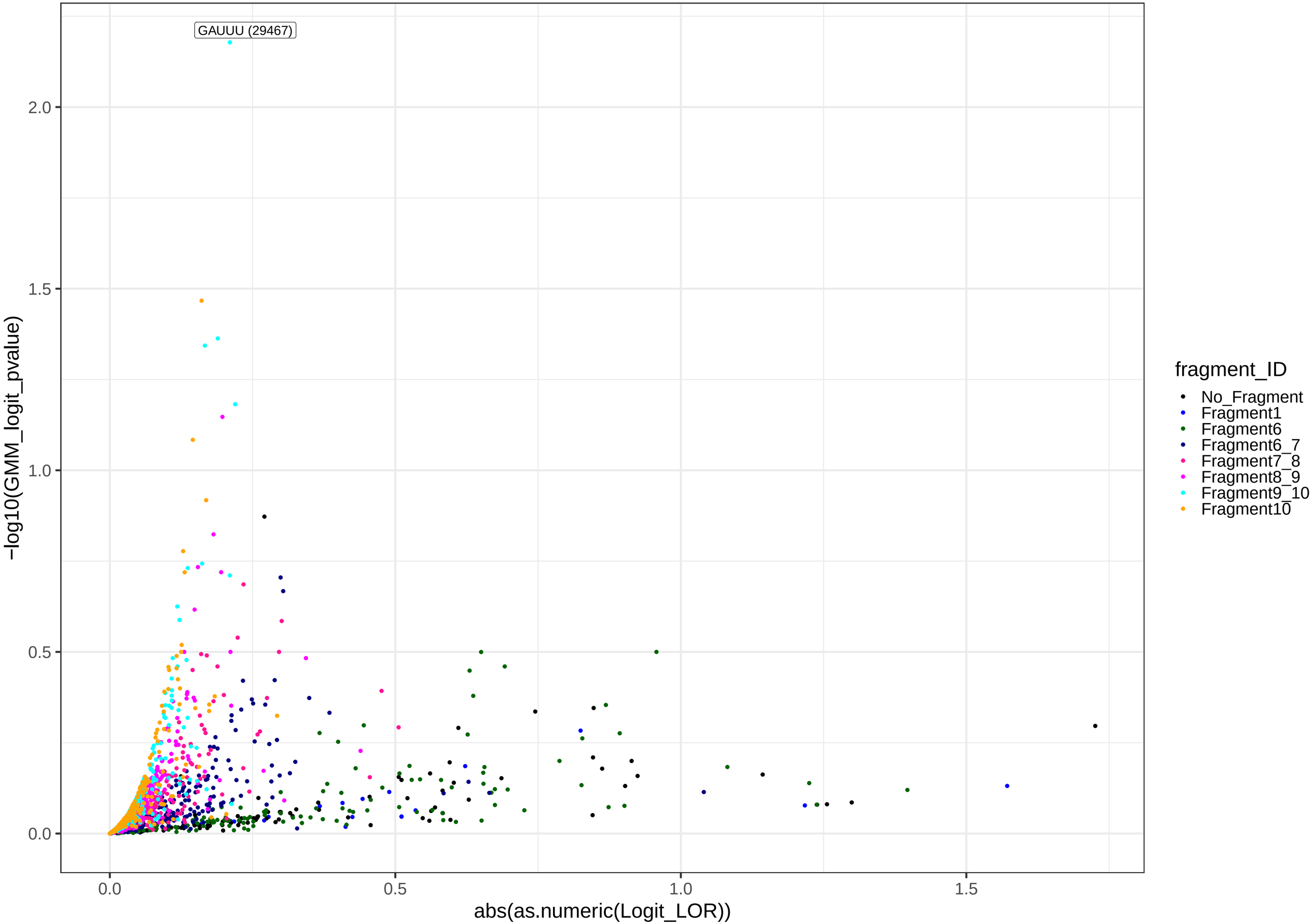
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

NCAP_SARS2

43380068−c713−4bd8−881a−d124d54688fd|227 C



NS6_SARS2

5820681b−6191−45dd−959c−96a8097aafdd|2255 C

CUUUU (29579)

UUUUC (29725)

AUCUU (29676)

AACUC (29406)

GCUUU (29578)

GCCAC (29736)

GACAA (29383)

−log10(GMM_logit_pvalue)

6

4

2

0

0.0

0.5

1.0

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

NCAP_SARS2

61a628be−eac5−4042−9c08−9674a992a139|1817 C

UUUUC (29725)

CUUUU (29579)

−log10(GMM_logit_pvalue)

3

2

1

0

0.0

0.2

0.4

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

NS7A_SARS2

80d2b168−232a−4773−b01e−769f6dc24857|13267 C

−log10(GMM_logit_pvalue)

1.5

1.0

0.5

0.0

0.00

0.25

0.50

0.75

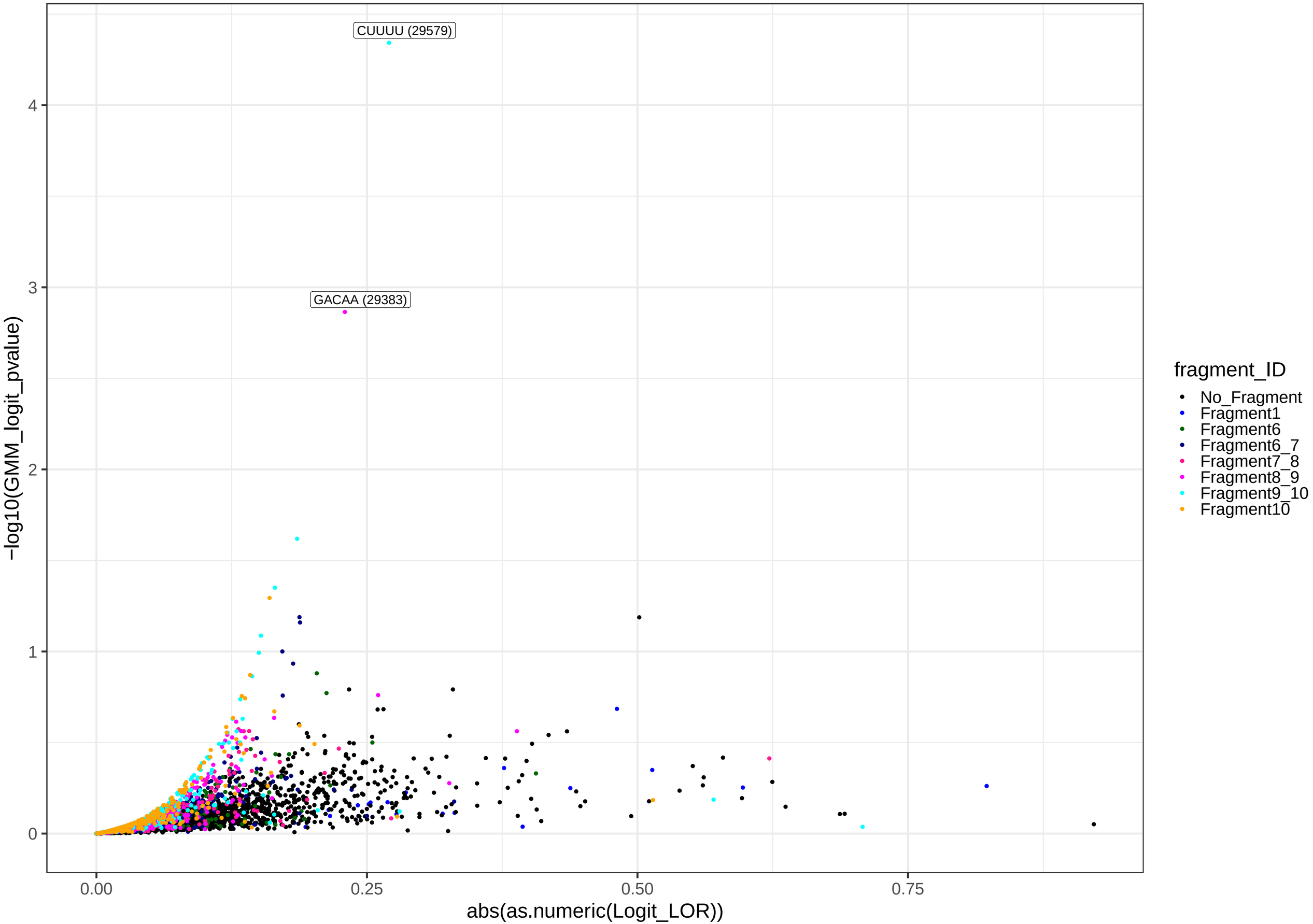
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

VEMP_SARS2

a142ee65−6aca−4eef−b6f0−30e884517173|916 C



NCAP_SARS2

a9eb4b74−941b−40f2−80c0−93d63e0e7d8e|927 NC

−log10(GMM_logit_pvalue)

1.0

0.5

0.0

0.0

0.5

1.0

1.5

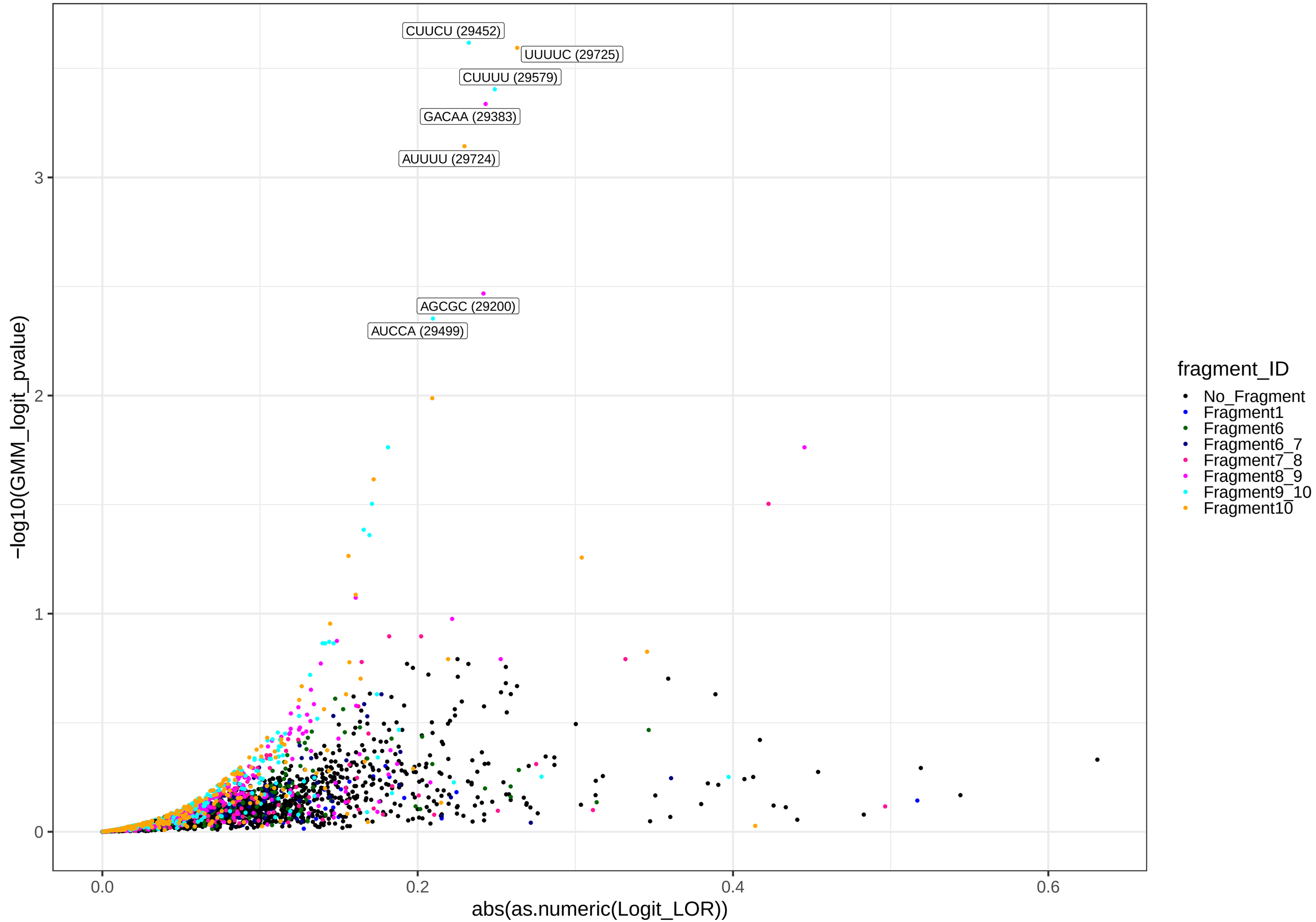
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

VME1_SARS2

ade569a0−3419−462e−b6c5−77d6f75a8ed5|263 C



NCAP_SARS2

b1b33a2b−f576−4824−892e−def4cff7aa6f|86333 C

CUUUU (29579)

−log10(GMM_logit_pvalue)

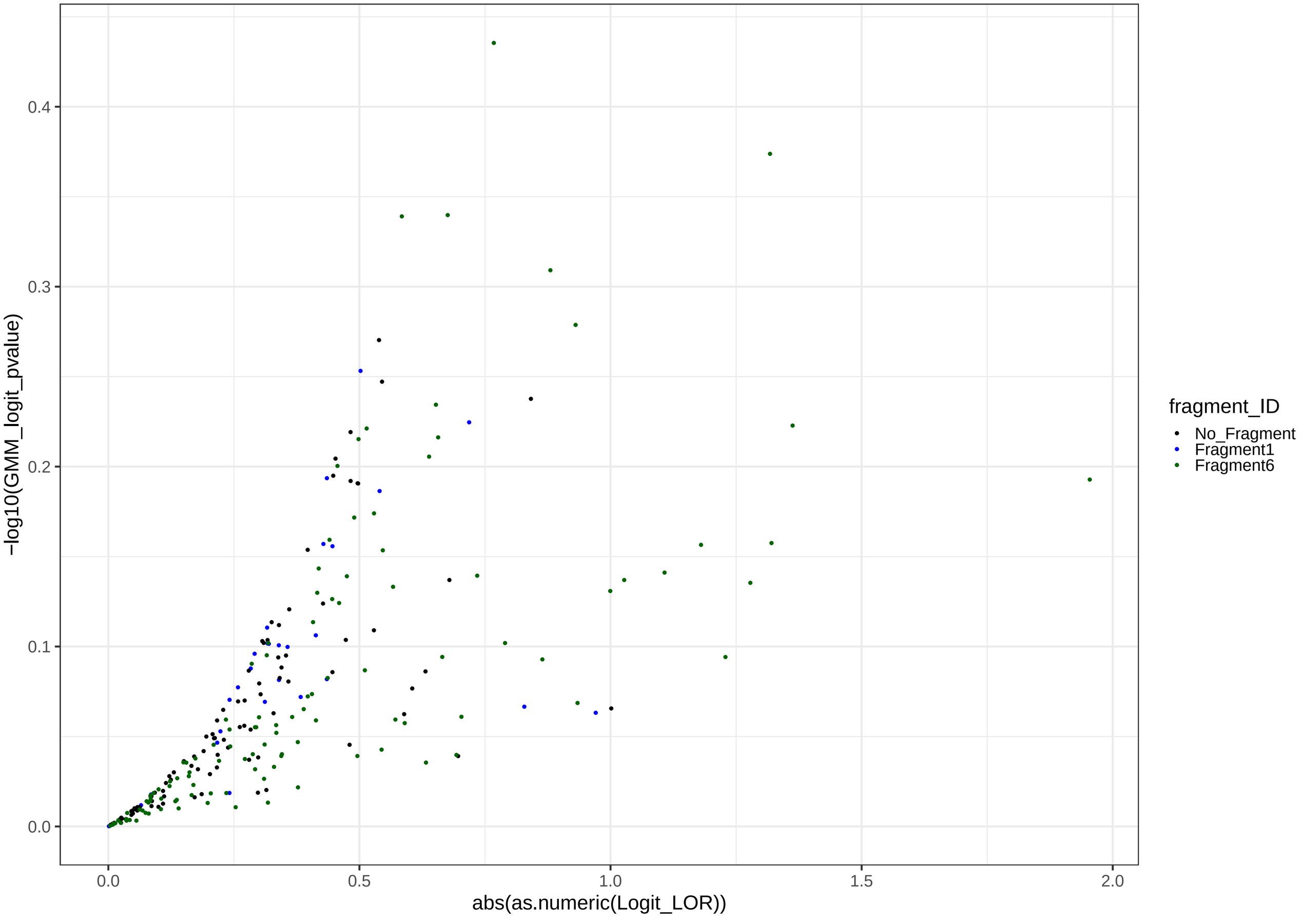
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

ORF9B_SARS2

b1df799c−0edb−4d03−9153−55254feb2f8f|248 NC



NS8_SARS2

bd49f404−9323−4537−9590−eafa3b7fb46f|3539 C

AGUCU (29599)

GACAA (29867)

GACAA (29383)

−log10(GMM_logit_pvalue)

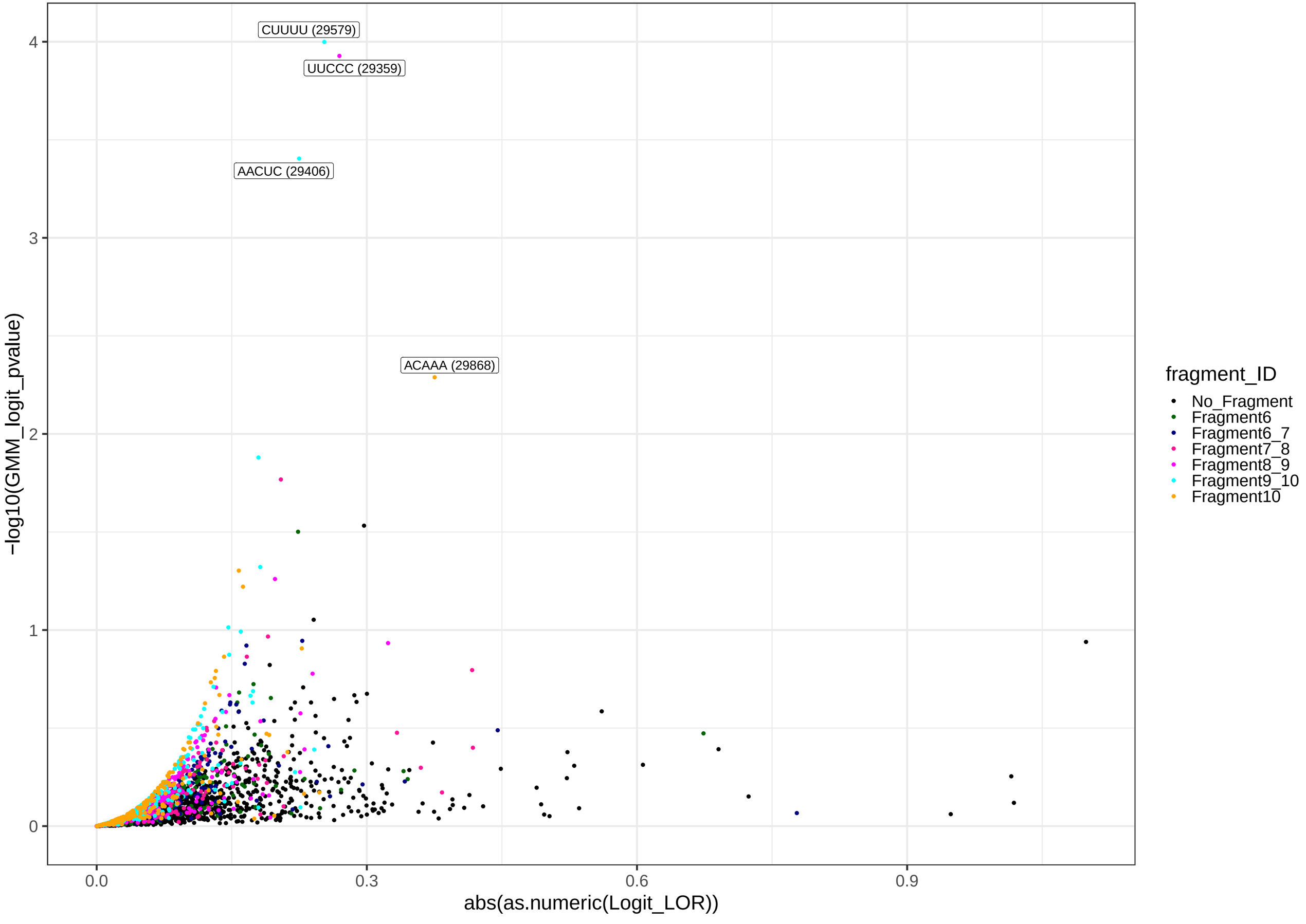
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

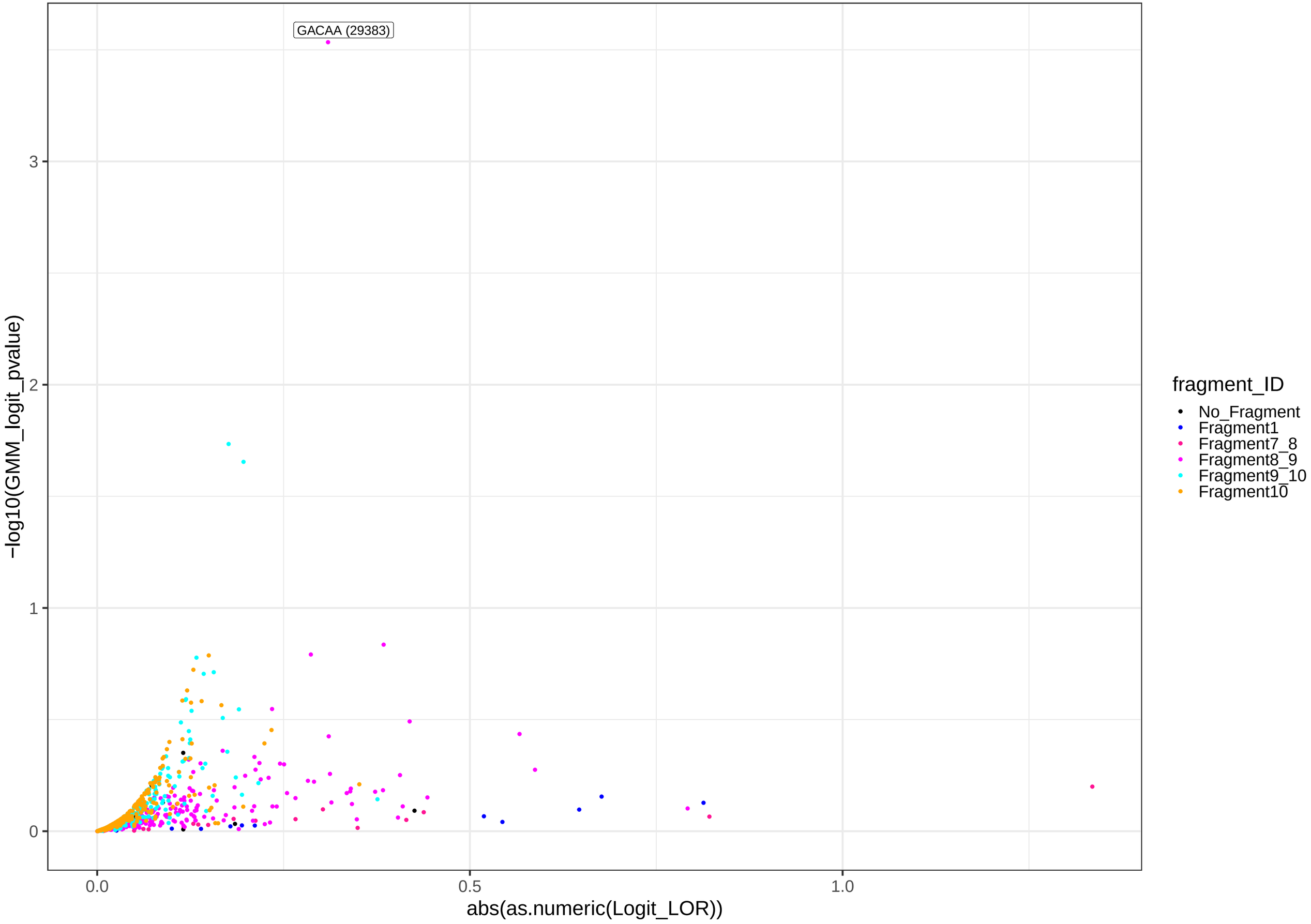
NS6_SARS2

ceb5fff7−3e34−497f−8ad6−411072fffaaa|446 NC



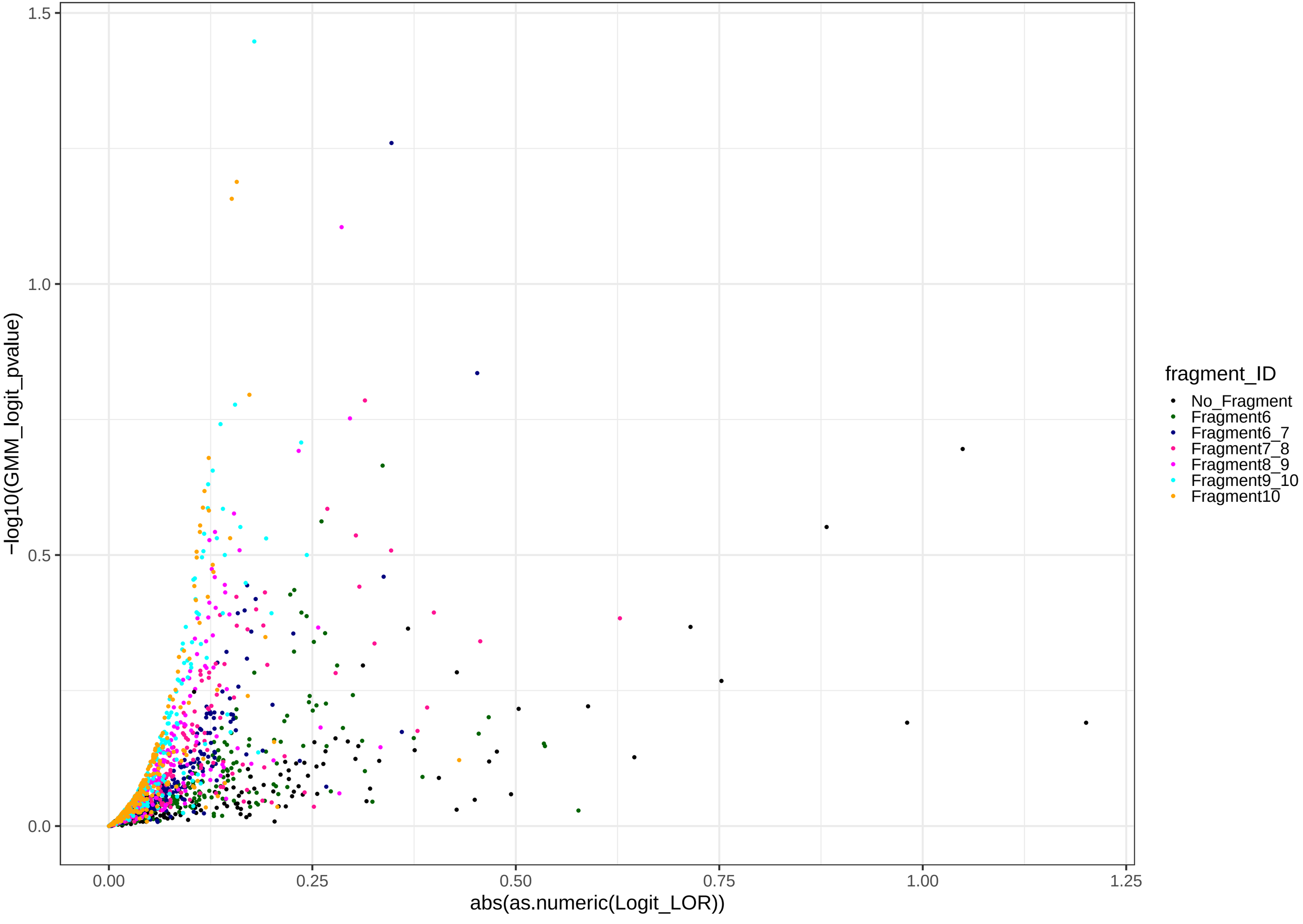
ORF9D_SARS2

de81ef19−655d−4ced−a9cc−cb8384001058|107 C



NCAP_SARS2

e5be99c8−cb56−4146−b71a−fd092c5091ef|121 NC



AP3A_SARS2

e94116d8−72eb−4252−819c−ad06fd9870d4|4145 C

CUUUU (29579)

CAAAU (29283)

GUUUA (29586)

AUCUU (29676)

CCCCA (29834)

UUUUC (29573)

UUACC (29416)

CUUAC (29415)

GCUUC (29203)

CUUGC (28927)

3

2

1

0

−log10(GMM_logit_pvalue)

0.0

0.3

0.6

0.9

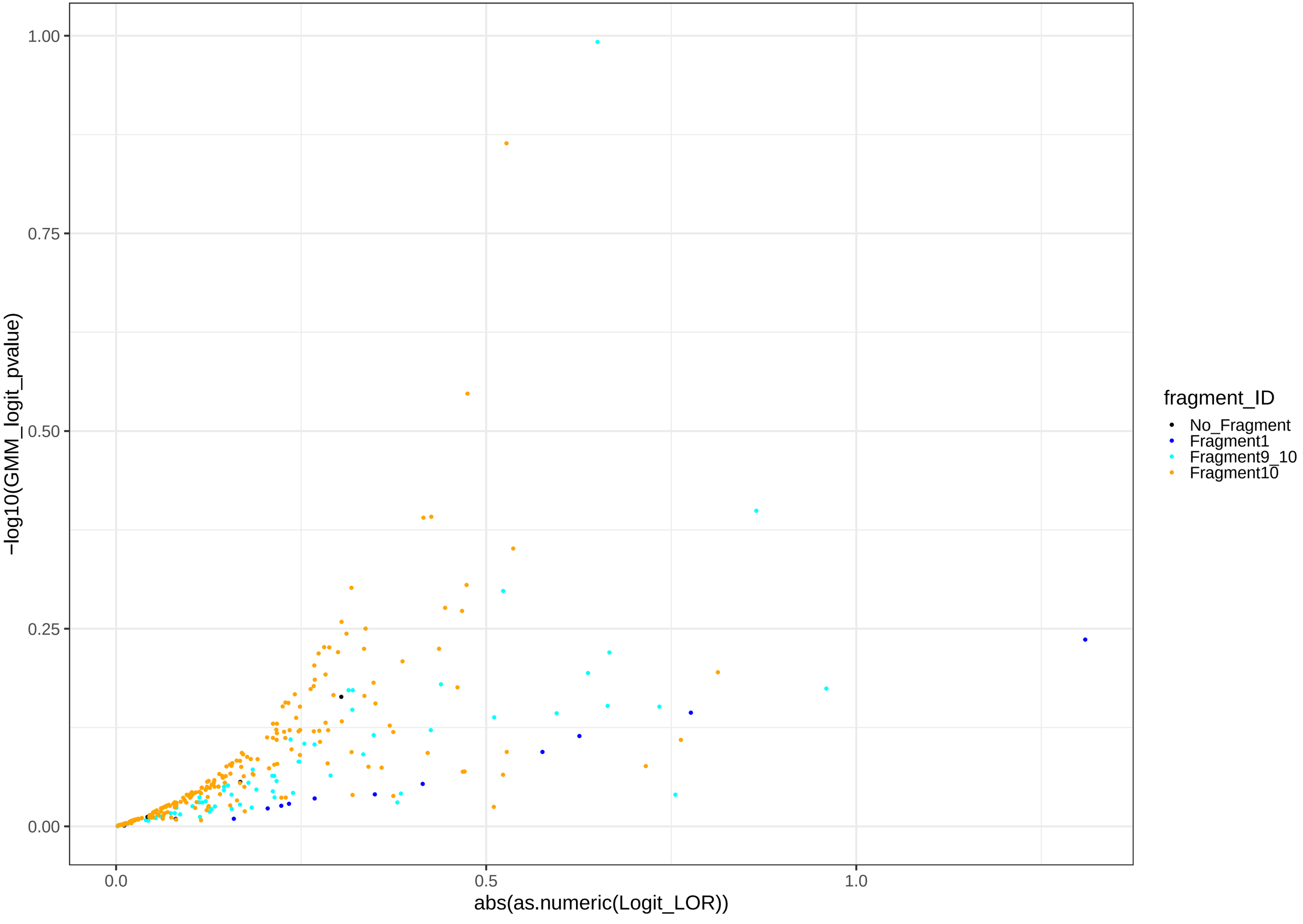
abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10

ORF10_SARS2

efad7b96−ac2e−4ce1−9b83−863ffdb18eac|116 C



VME1_SARS2

fc4d6218−3c79−466d−84e4−705bee2dacef|13813 C

CUUUU (29579)

ACAAA (29868)

AACUC (29406)

CUAAA (28092)

UUUUC (29573)

GCUUG (27588)

−log10(GMM_logit_pvalue)

4

3

2

1

0

0.0

0.5

1.0

1.5

abs(as.numeric(Logit_LOR))

fragment_ID

- No_Fragment
- Fragment1
- Fragment6
- Fragment6_7
- Fragment7_8
- Fragment8_9
- Fragment9_10
- Fragment10