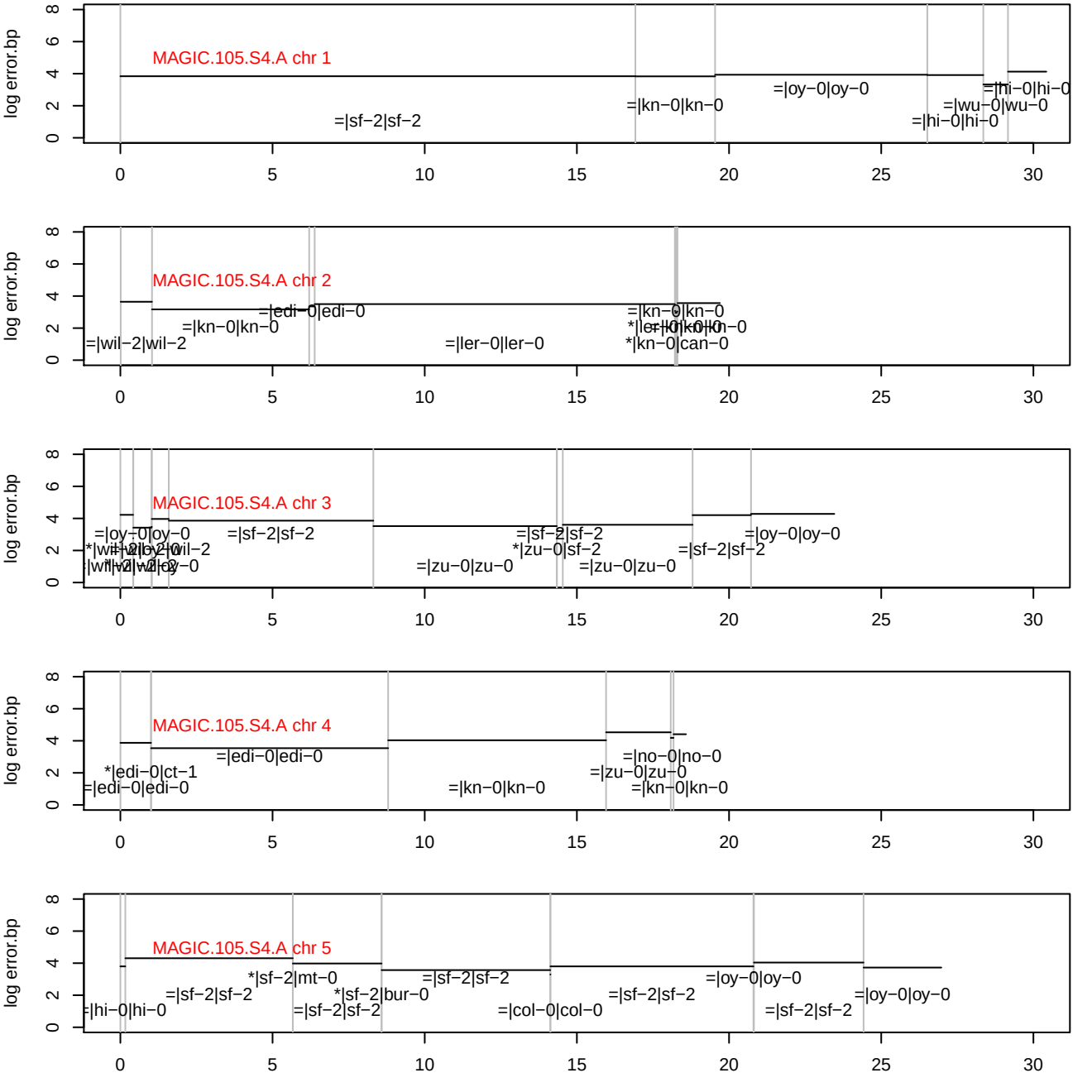
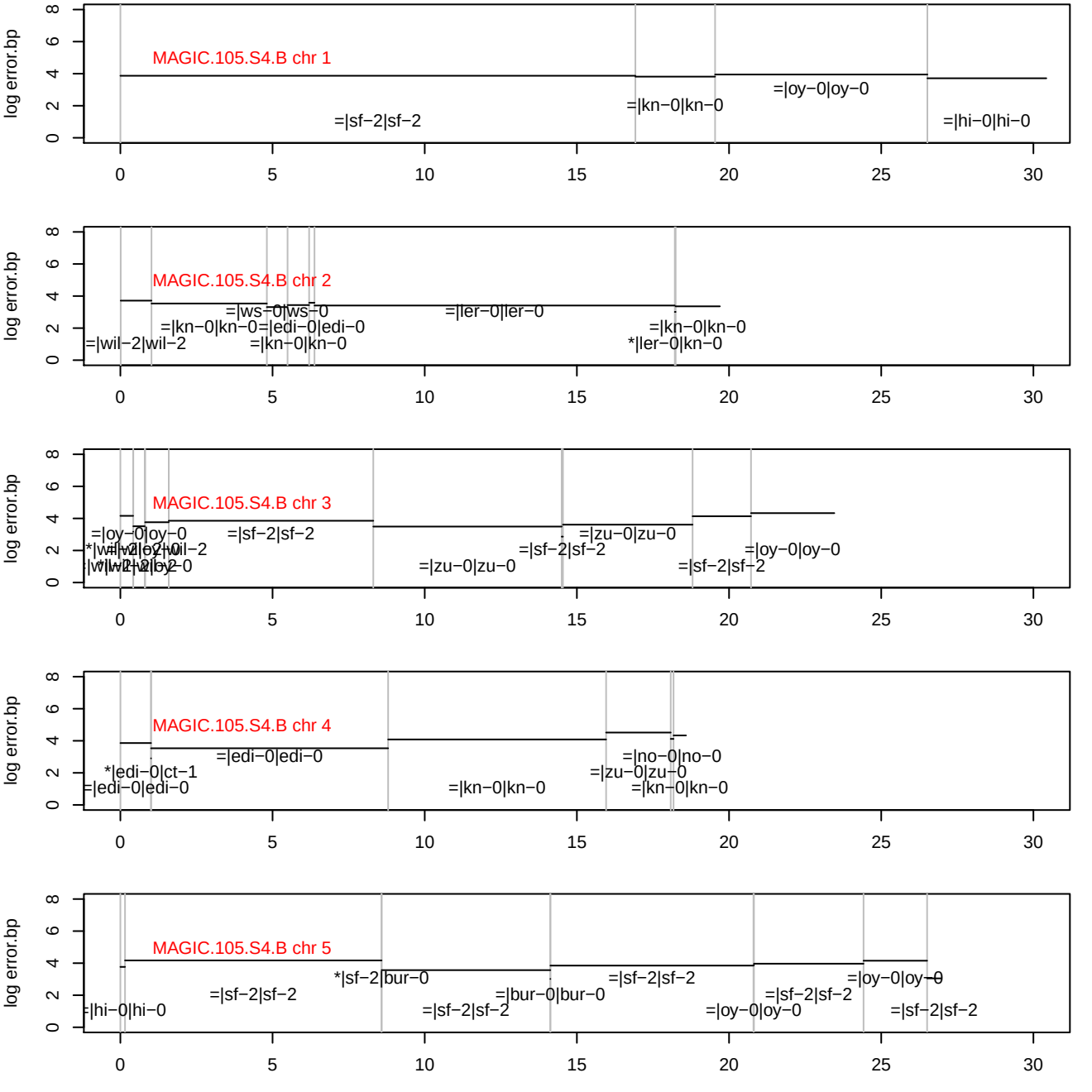
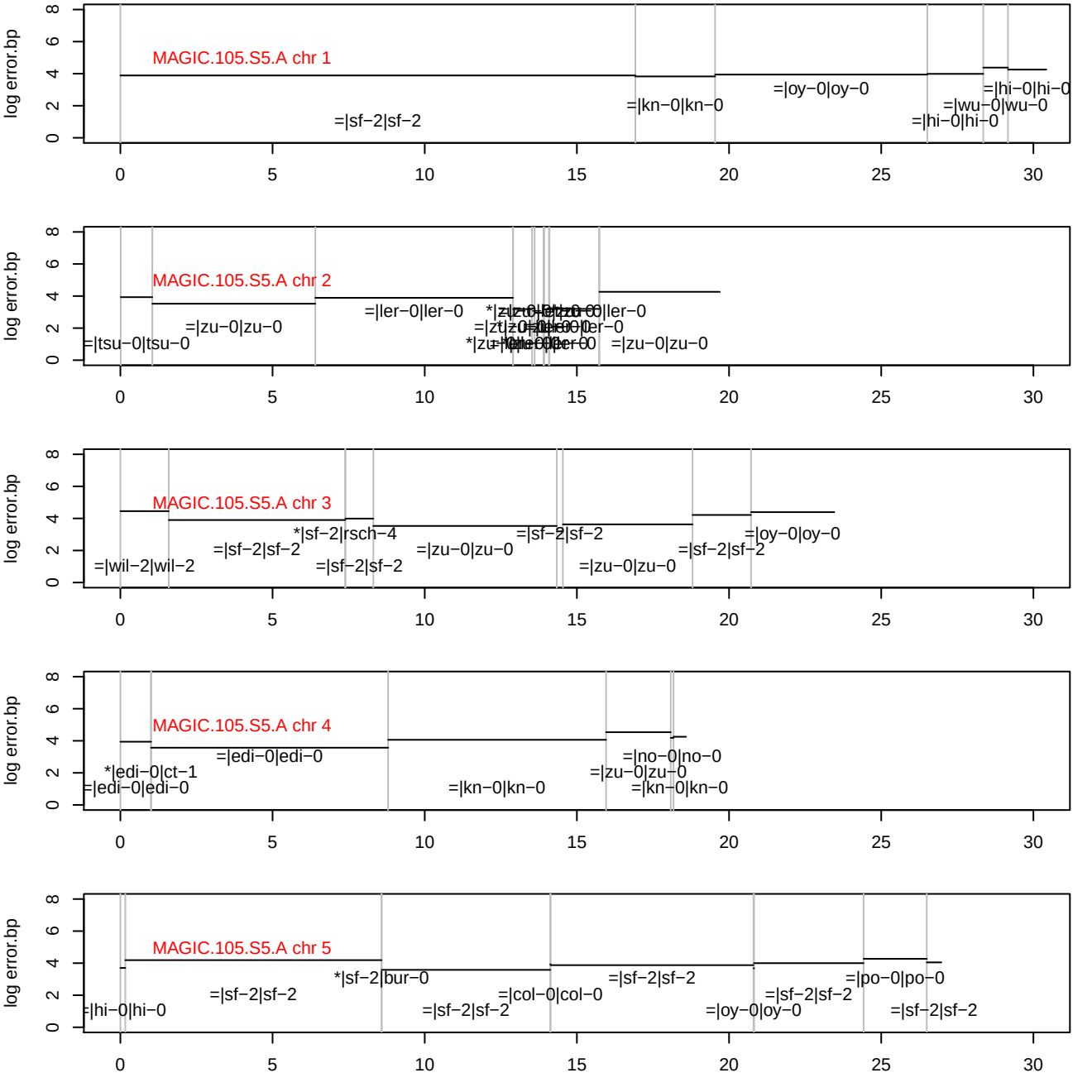
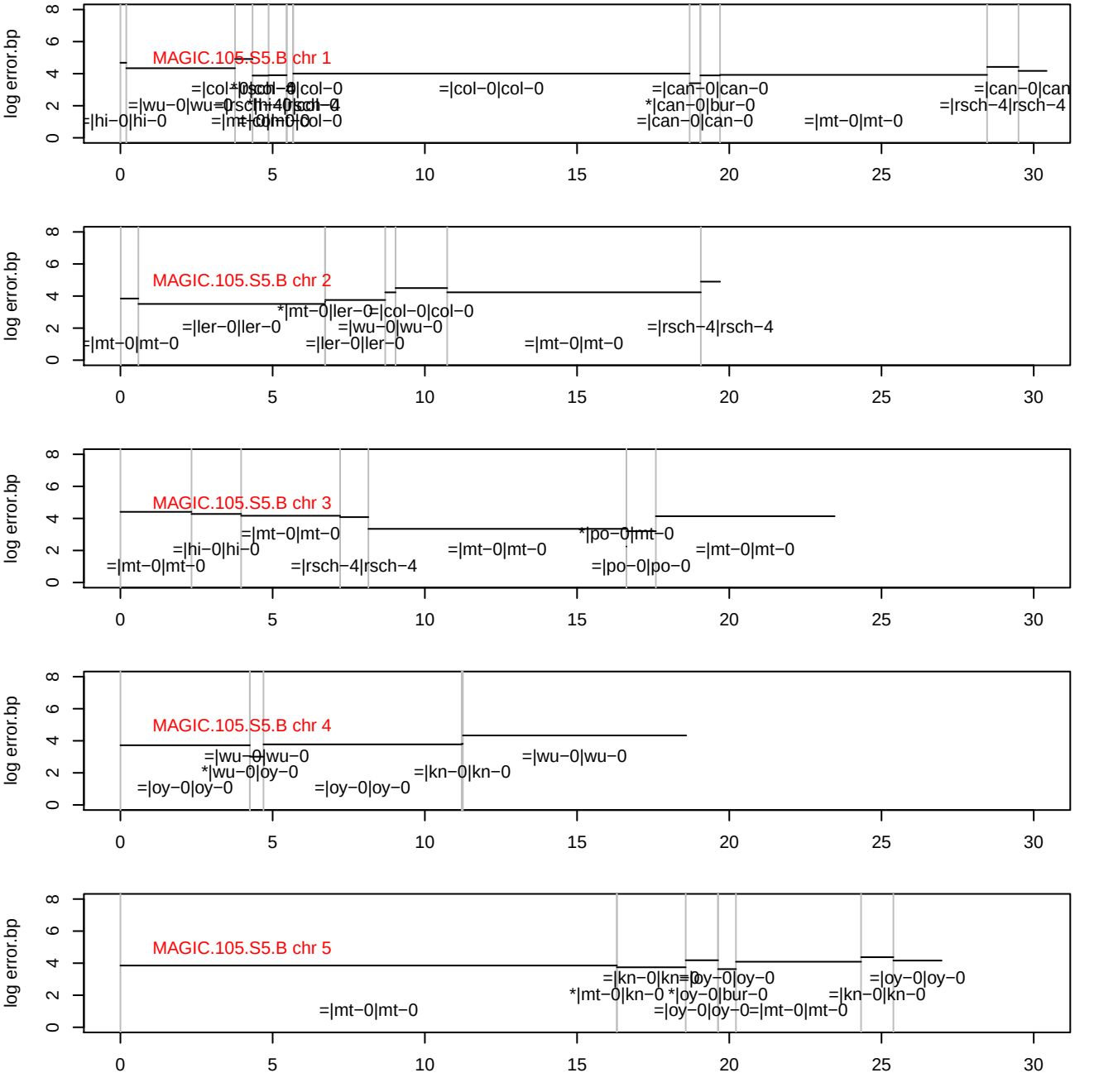
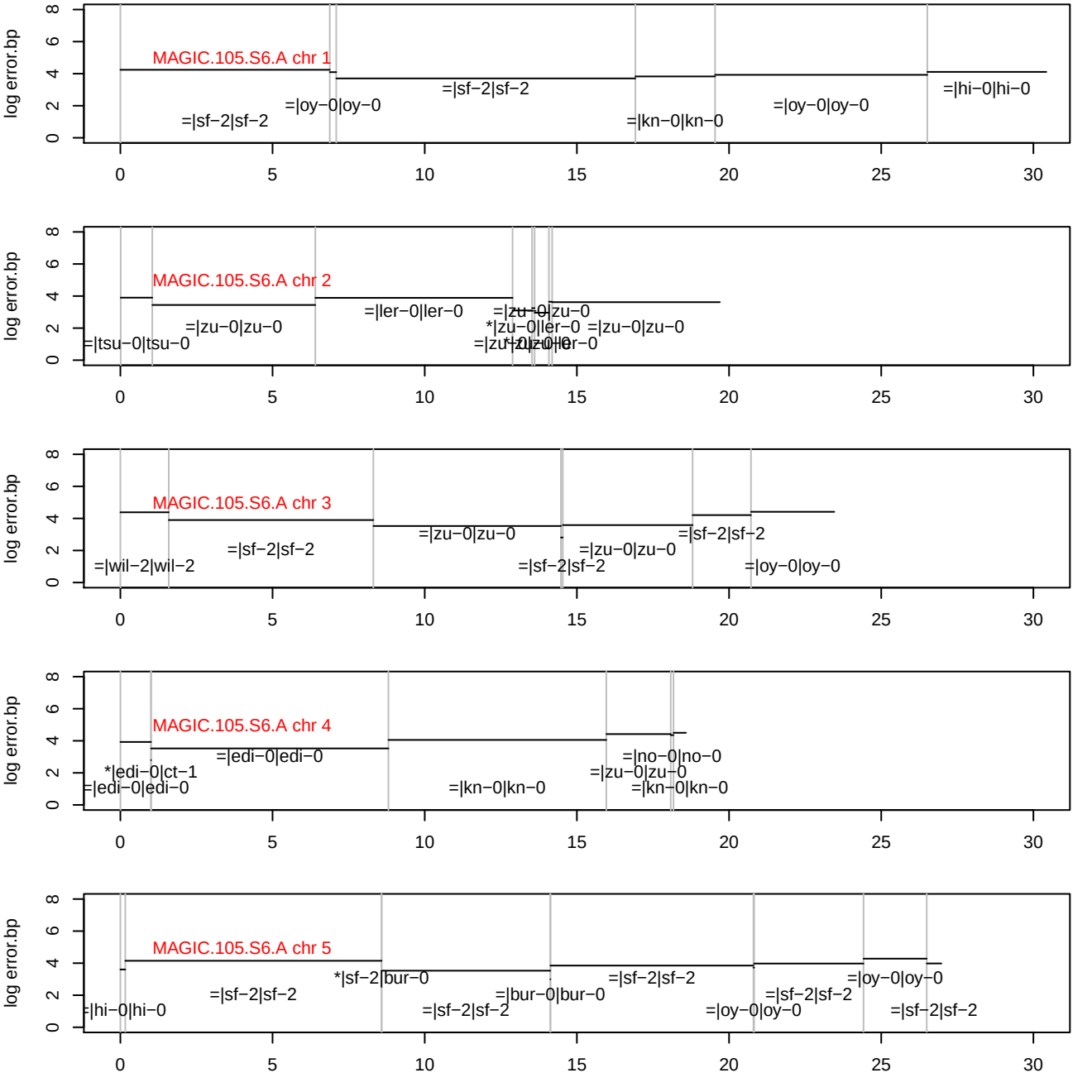
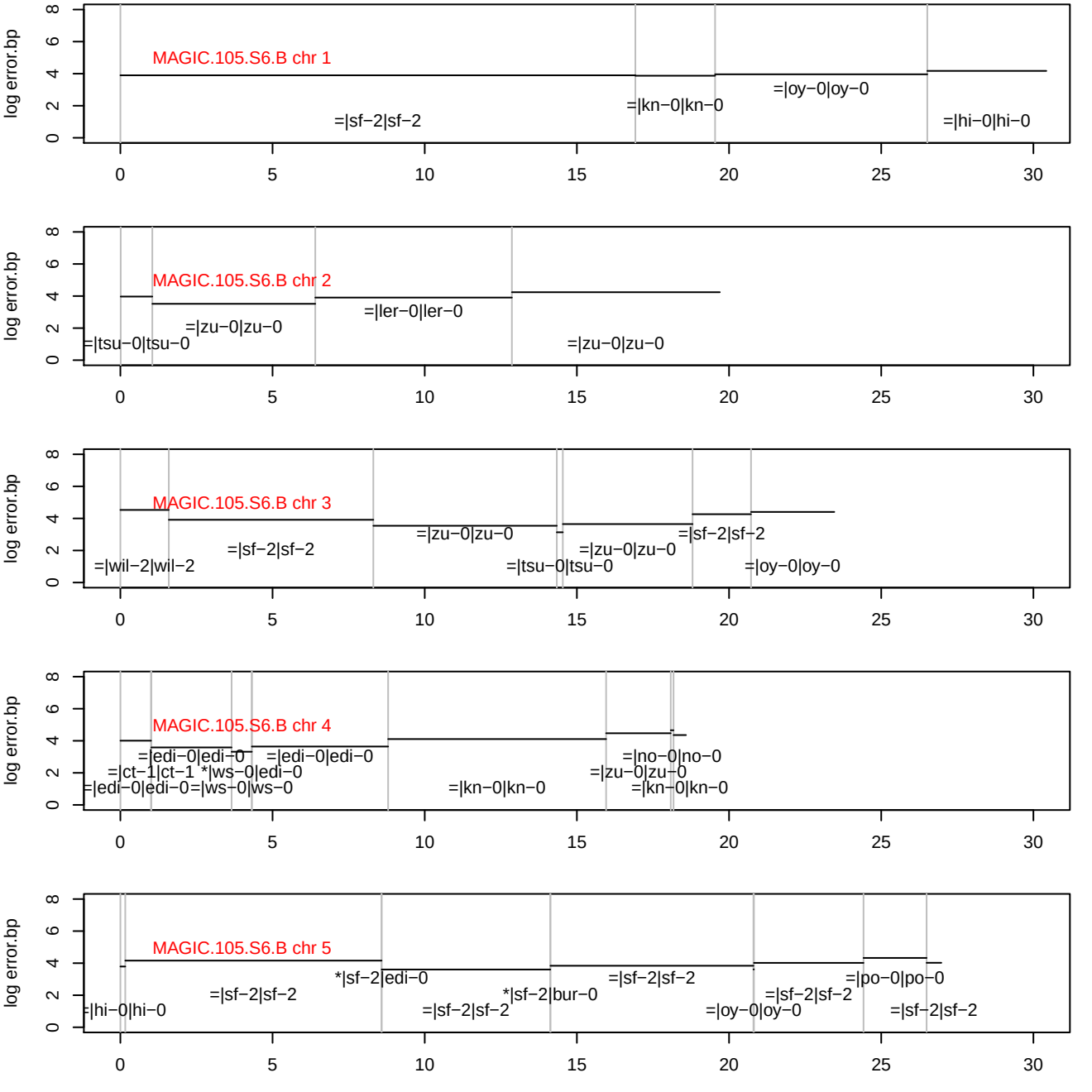

MAGIC.105.S4.A chr 1
=|sf−2|sf−2
=|kn−0|kn−0
=|oy−0|oy−0
=|hi−0|hi−0
=|wu−0|wu−0
=|hi−0|hi−0
MAGIC.105.S4.A chr 2
=|wil−2|wil−2
=|kn−0|kn−0
=|edi−0|edi−0
=|ler−0|ler−0
=|kn−0|kn−0
*|kn−0|can−0
MAGIC.105.S4.A chr 3
=|oy−0|oy−0
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
*|zu−0|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|oy−0|oy−0
MAGIC.105.S4.A chr 4
*|edi−0|ct−1
=|edi−0|edi−0
=|edi−0|edi−0
=|kn−0|kn−0
=|no−0|no−0
=|zu−0|zu−0
=|kn−0|kn−0
MAGIC.105.S4.A chr 5
=|hi−0|hi−0
=|sf−2|sf−2
*|sf−2|mt−0
=|sf−2|sf−2
*|sf−2|bur−0
=|sf−2|sf−2
=|col−0|col−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|oy−0|oy−0
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

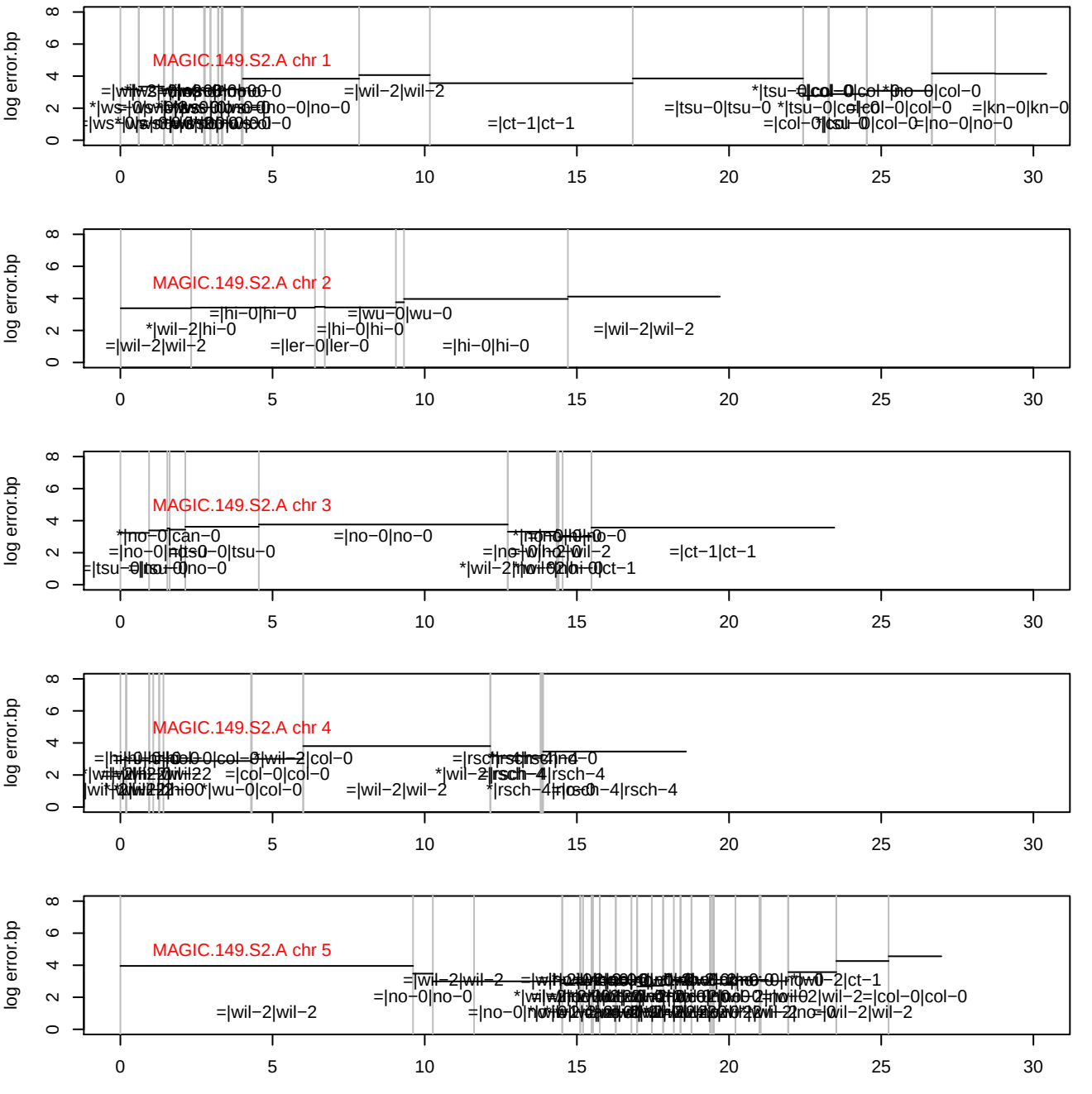

MAGIC.105.S4.B chr 1
=|sf−2|sf−2
=|kn−0|kn−0
=|oy−0|oy−0
=|hi−0|hi−0
MAGIC.105.S4.B chr 2
=|wil−2|wil−2
=|kn−0|kn−0
=|ws−0|ws−0
=|edi−0|edi−0
=|kn−0|kn−0
=|ler−0|ler−0
*|ler−0|kn−0
=|kn−0|kn−0
MAGIC.105.S4.B chr 3
=|oy−0|oy−0
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
MAGIC.105.S4.B chr 4
*|edi−0|ct−1
=|edi−0|edi−0
=|edi−0|edi−0
=|kn−0|kn−0
=|no−0|no−0
=|zu−0|zu−0
=|kn−0|kn−0
MAGIC.105.S4.B chr 5
=|hi−0|hi−0
=|sf−2|sf−2
*|sf−2|bur−0
=|sf−2|sf−2
=|bur−0|bur−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

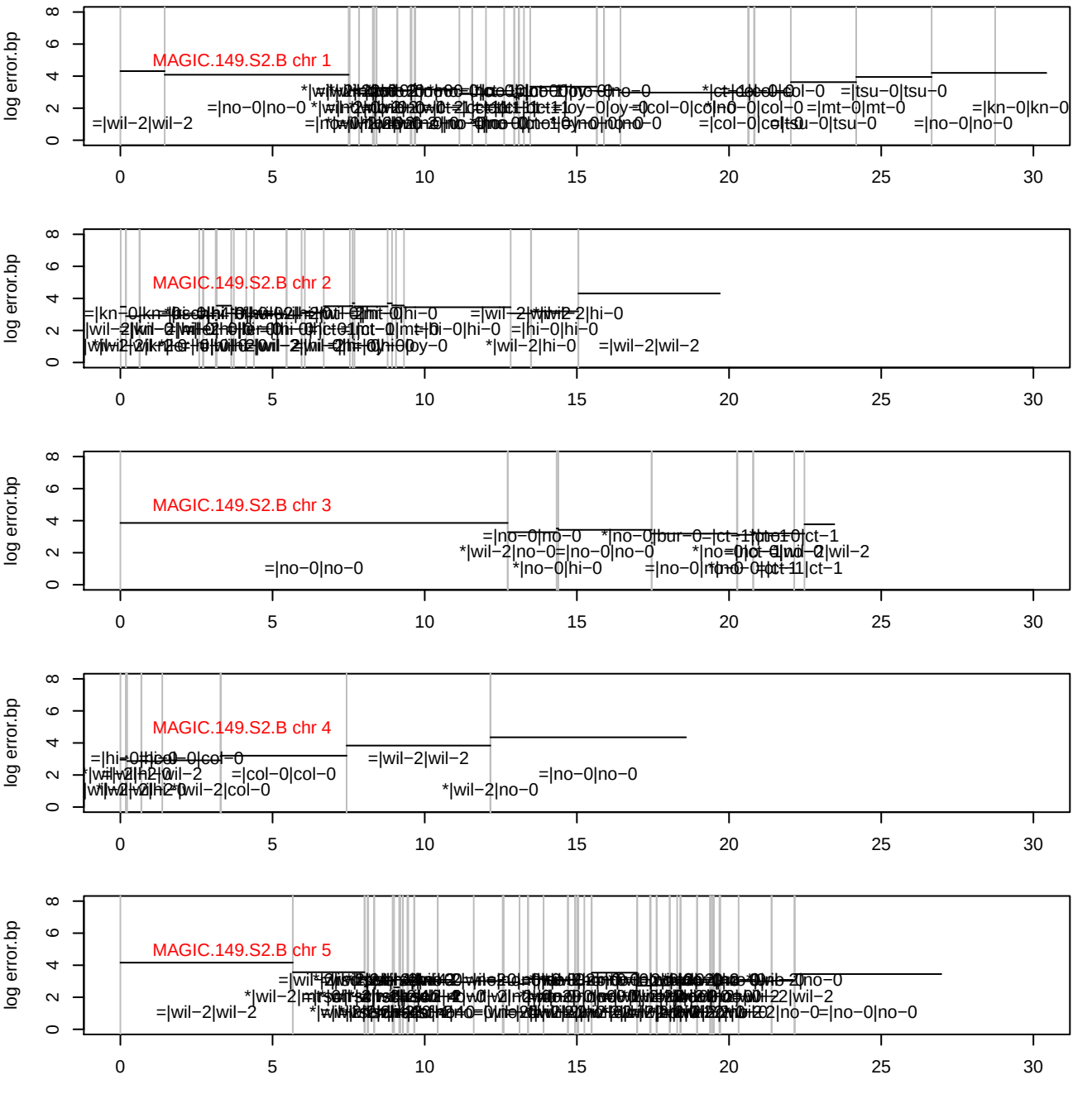

MAGIC.105.S5.A chr 1
log error.bp
=|sf−2|sf−2
=|kn−0|kn−0
=|oy−0|oy−0
=|hi−0|hi−0
=|wu−0|wu−0
=|hi−0|hi−0
MAGIC.105.S5.A chr 2
=|tsu−0|tsu−0
=|zu−0|zu−0
=|ler−0|ler−0
=|zu−0|zu−0
MAGIC.105.S5.A chr 3
=|wil−2|wil−2
=|sf−2|sf−2
*|sf−2|rsch−4
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|oy−0|oy−0
MAGIC.105.S5.A chr 4
*|edi−0|ct−1
=|edi−0|edi−0
=|edi−0|edi−0
=|kn−0|kn−0
=|no−0|no−0
=|zu−0|zu−0
=|kn−0|kn−0
MAGIC.105.S5.A chr 5
=|hi−0|hi−0
=|sf−2|sf−2
*|sf−2|bur−0
=|sf−2|sf−2
=|col−0|col−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|po−0|po−0
=|sf−2|sf−2
0
5
10
15
20
25
30
0
2
4
6
8

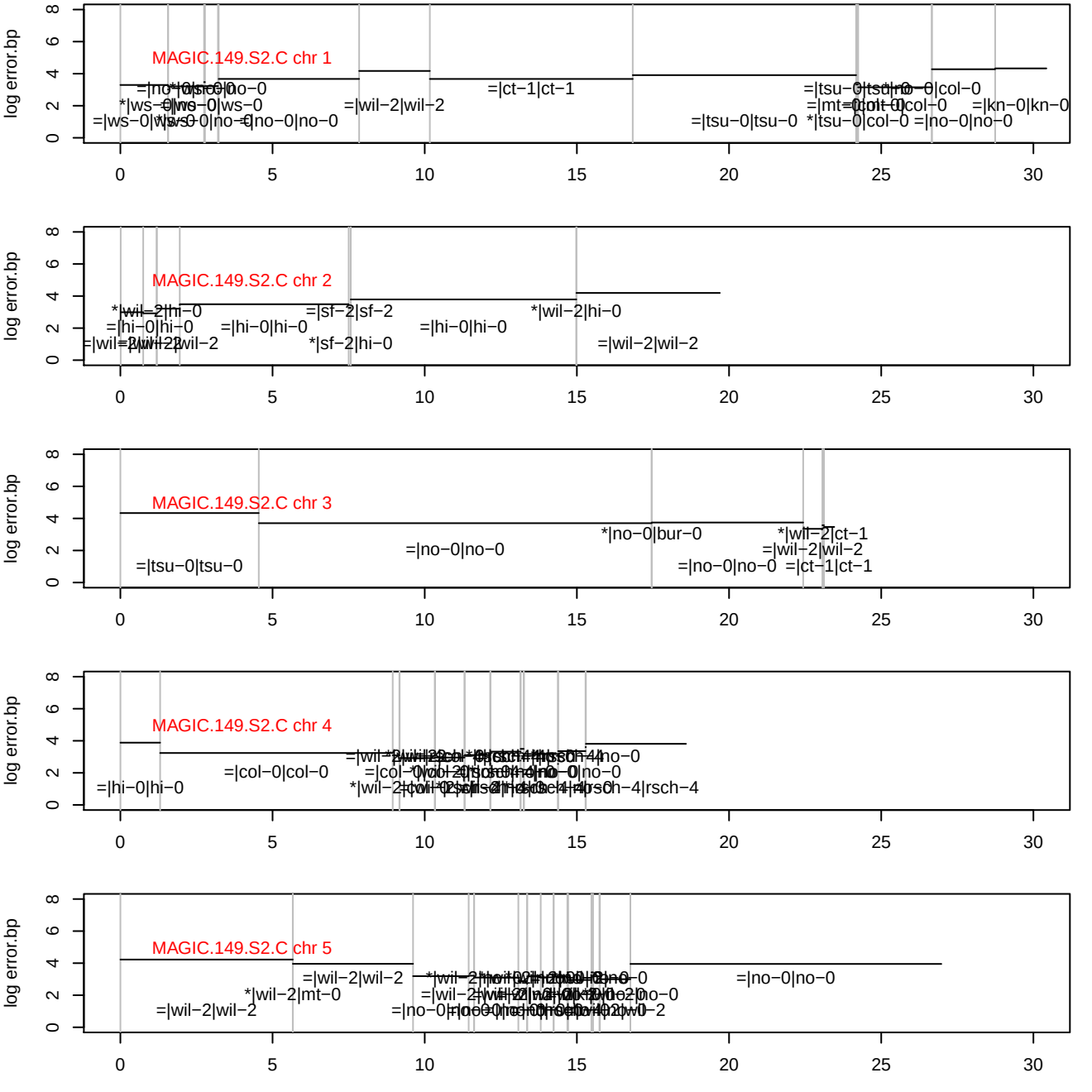

MAGIC.105.S5.B chr 1
log error.bp
=|hi−0|hi−0
=|wu−0|wu−0
=|col−0|col−0
=|col−0|col−0
=|mt−0|mt−0
=|col−0|col−0
=|can−0|can−0
*|can−0|bur−0
=|can−0|can−0
=|mt−0|mt−0
=|can−0|can
=|rsch−4|rsch−4
MAGIC.105.S5.B chr 2
log error.bp
=|mt−0|mt−0
=|ler−0|ler−0
*|mt−0|ler−0
=|ler−0|ler−0
=|col−0|col−0
=|wu−0|wu−0
=|mt−0|mt−0
=|rsch−4|rsch−4
MAGIC.105.S5.B chr 3
log error.bp
=|mt−0|mt−0
=|hi−0|hi−0
=|mt−0|mt−0
=|rsch−4|rsch−4
=|mt−0|mt−0
*|po−0|mt−0
=|po−0|po−0
=|mt−0|mt−0
MAGIC.105.S5.B chr 4
log error.bp
=|oy−0|oy−0
=|wu−0|wu−0
*|wu−0|oy−0
=|oy−0|oy−0
=|kn−0|kn−0
=|wu−0|wu−0
MAGIC.105.S5.B chr 5
log error.bp
=|mt−0|mt−0
=|kn−0|kn−0
*|mt−0|kn−0
=|oy−0|oy−0
*|oy−0|bur−0
=|oy−0|oy−0
=|mt−0|mt−0
=|kn−0|kn−0
=|oy−0|oy−0

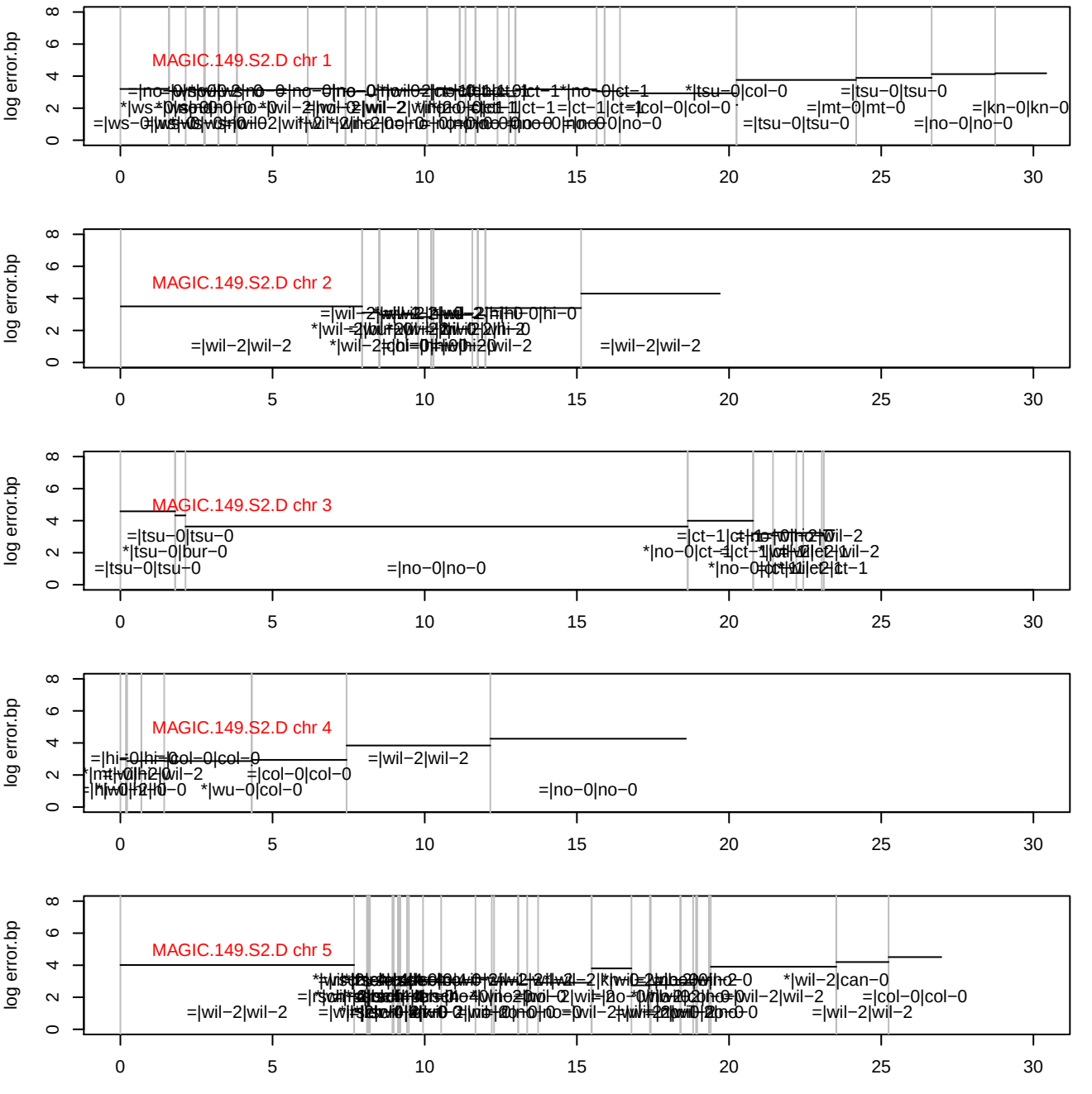

log error.bp
MAGIC.105.S6.A chr 1
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|kn−0|kn−0
=|oy−0|oy−0
=|hi−0|hi−0
MAGIC.105.S6.A chr 2
=|tsu−0|tsu−0
=|zu−0|zu−0
=|ler−0|ler−0
=|zu−0|zu−0
*|zu−0|ler−0
=|zu−0|zu−0
MAGIC.105.S6.A chr 3
=|wil−2|wil−2
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|zu−0|zu−0
=|sf−2|sf−2
=|oy−0|oy−0
MAGIC.105.S6.A chr 4
*|edi−0|ct−1
=|edi−0|edi−0
=|edi−0|edi−0
=|kn−0|kn−0
=|no−0|no−0
=|zu−0|zu−0
=|kn−0|kn−0
MAGIC.105.S6.A chr 5
=|hi−0|hi−0
=|sf−2|sf−2
*|sf−2|bur−0
=|sf−2|sf−2
=|bur−0|bur−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2

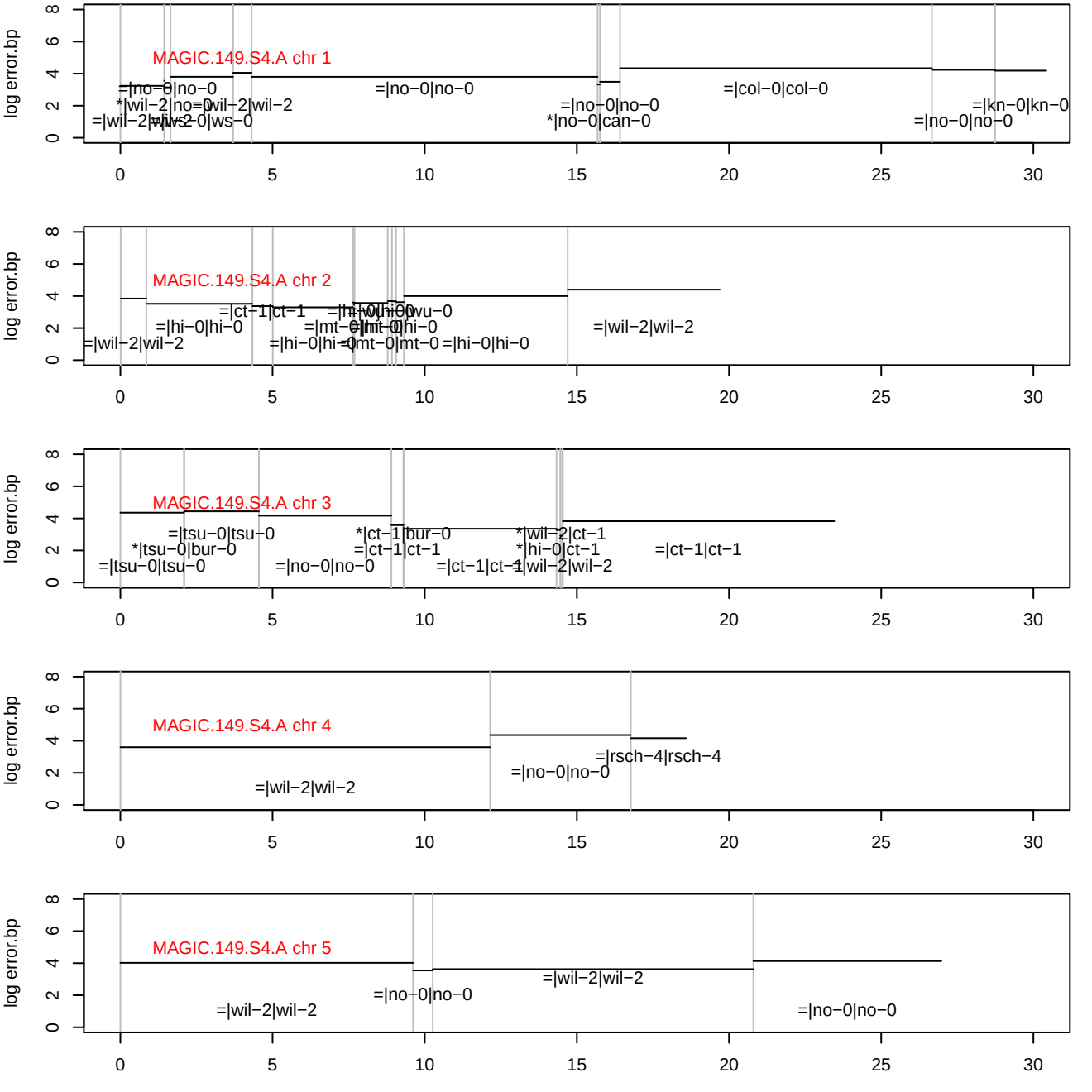

log error.bp
MAGIC.105.S6.B chr 1
=|sf−2|sf−2
=|kn−0|kn−0
=|oy−0|oy−0
=|hi−0|hi−0
MAGIC.105.S6.B chr 2
=|tsu−0|tsu−0
=|zu−0|zu−0
=|ler−0|ler−0
=|zu−0|zu−0
MAGIC.105.S6.B chr 3
=|wil−2|wil−2
=|sf−2|sf−2
=|zu−0|zu−0
=|tsu−0|tsu−0
=|zu−0|zu−0
=|sf−2|sf−2
=|oy−0|oy−0
MAGIC.105.S6.B chr 4
=|ct−1|ct−1
=|edi−0|edi−0
=|edi−0|edi−0
*|ws−0|edi−0
=|ws−0|ws−0
=|edi−0|edi−0
=|kn−0|kn−0
=|zu−0|zu−0
=|no−0|no−0
=|kn−0|kn−0
MAGIC.105.S6.B chr 5
=|hi−0|hi−0
=|sf−2|sf−2
*|sf−2|edi−0
=|sf−2|sf−2
*|sf−2|bur−0
=|sf−2|sf−2
=|oy−0|oy−0
=|sf−2|sf−2
=|po−0|po−0
=|sf−2|sf−2

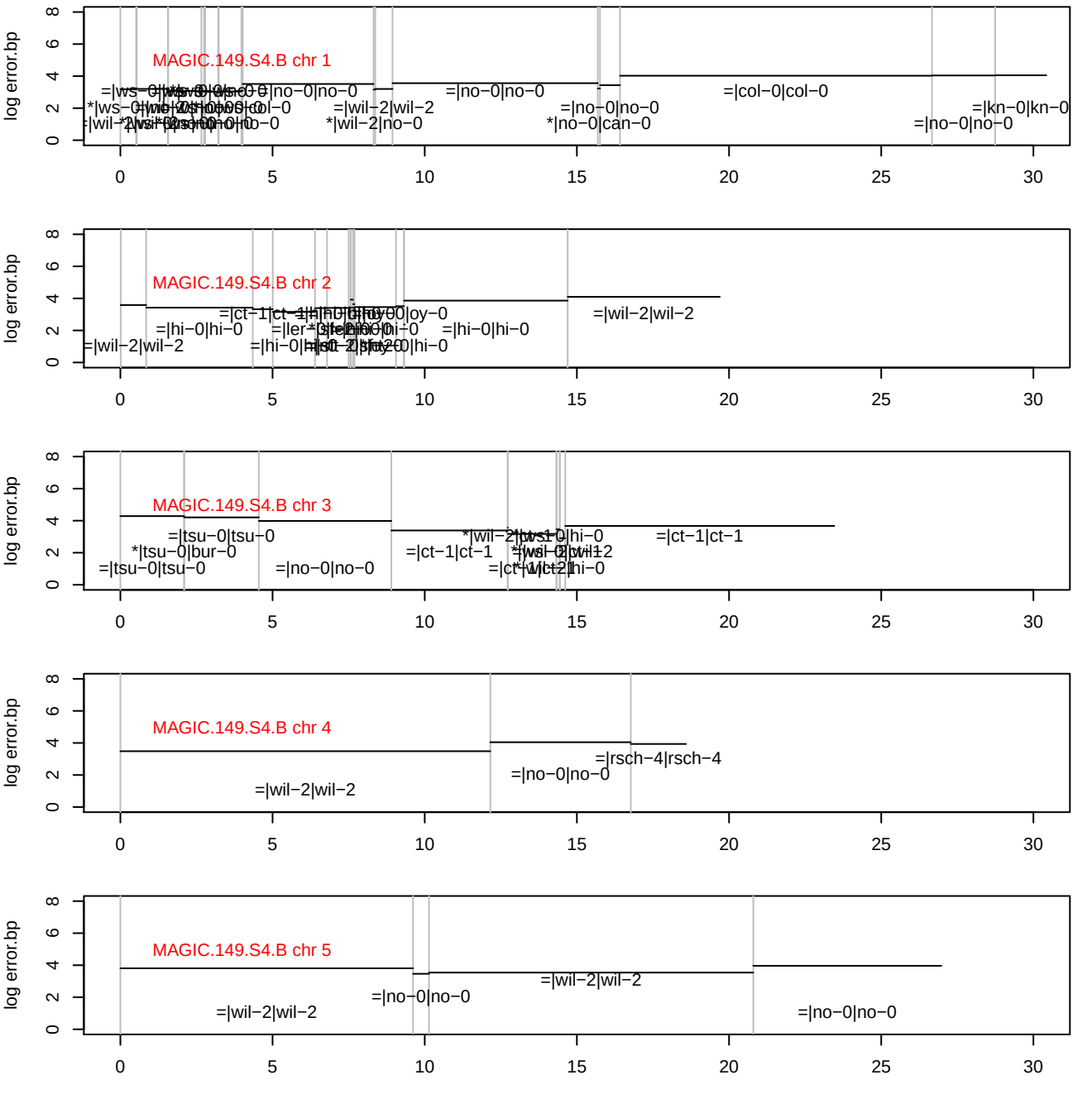

MAGIC.149.S2.A chr 1
=|wil−2|wil−2
=|ct−1|ct−1
=|tsu−0|tsu−0
=|kn−0|kn−0
MAGIC.149.S2.A chr 2
=|hi−0|hi−0
=|wu−0|wu−0
*|wil−2|hi−0
=|hi−0|hi−0
=|wil−2|wil−2
=|ler−0|ler−0
=|hi−0|hi−0
MAGIC.149.S2.A chr 3
=|no−0|no−0
=|ct−1|ct−1
MAGIC.149.S2.A chr 4
=|wil−2|col−0
=|col−0|col−0
=|wil−2|wil−2
MAGIC.149.S2.A chr 5
=|wil−2|wil−2
=|no−0|no−0
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

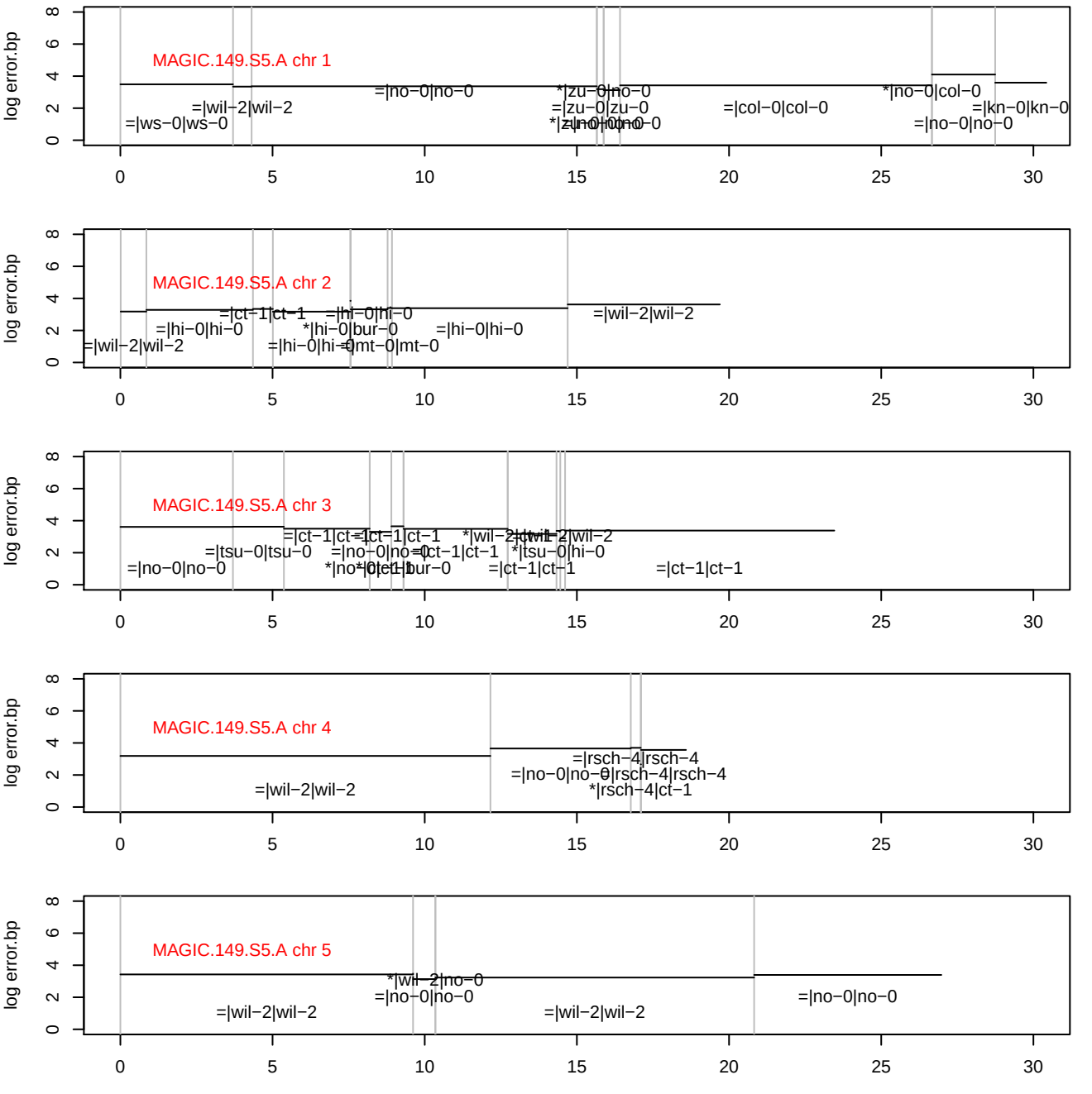

MAGIC.149.S2.B chr 1
MAGIC.149.S2.B chr 2
MAGIC.149.S2.B chr 3
MAGIC.149.S2.B chr 4
MAGIC.149.S2.B chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

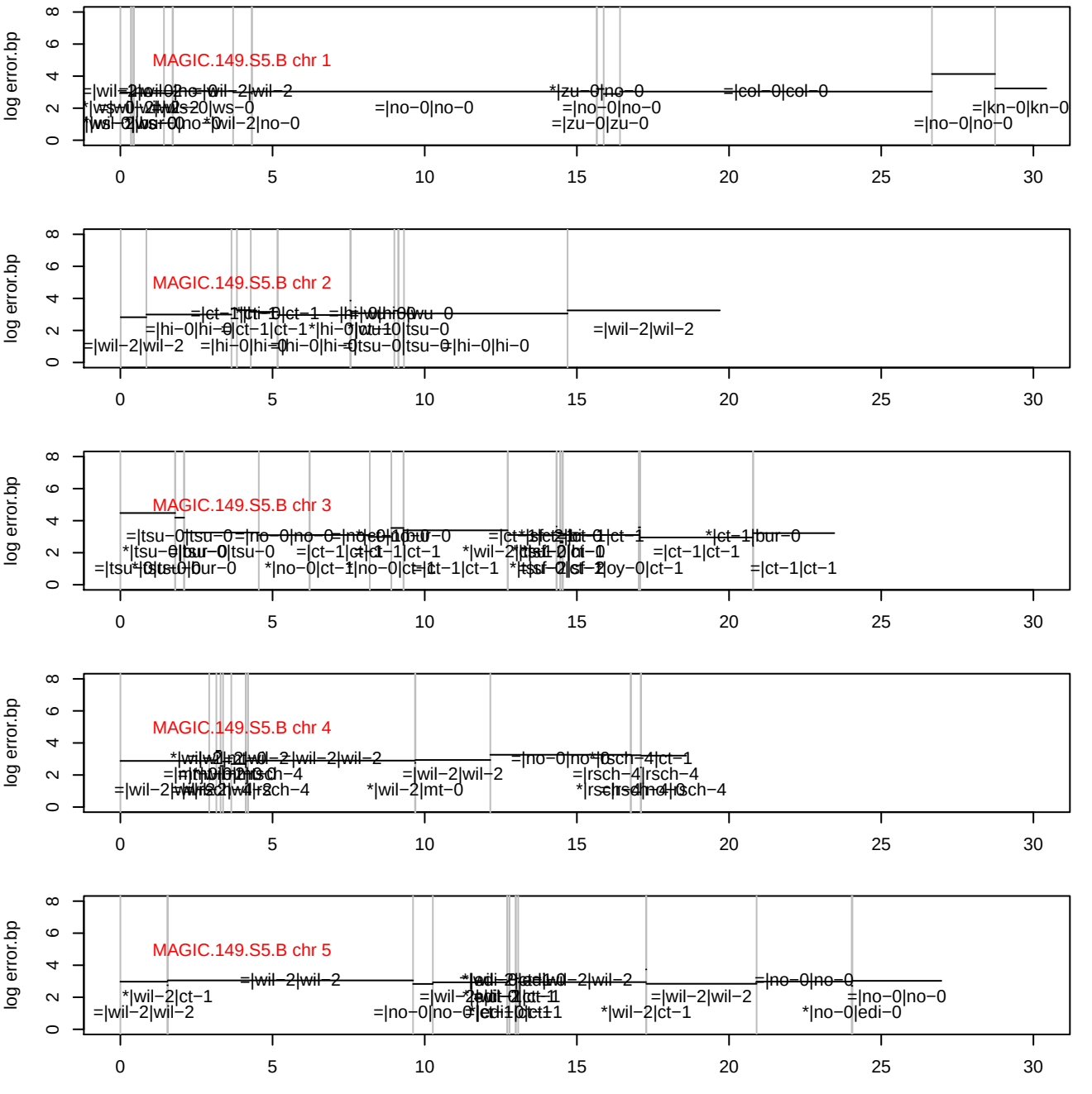

MAGIC.149.S2.C chr 1
=|no−0|no−0
*|ws−0|ws−0
=|ws−0|ws−0
=|no−0|no−0
=|wil−2|wil−2
=|ct−1|ct−1
=|tsu−0|tsu−0
=|col−0|col−0
=|kn−0|kn−0
=|tsu−0|tsu−0
*|tsu−0|col−0
=|no−0|no−0
MAGIC.149.S2.C chr 2
*|wil−2|hi−0
=|hi−0|hi−0
=|hi−0|hi−0
=|wil−2|wil−2
=|sf−2|sf−2
*|sf−2|hi−0
*|wil−2|hi−0
=|hi−0|hi−0
=|wil−2|wil−2
MAGIC.149.S2.C chr 3
=|tsu−0|tsu−0
=|no−0|no−0
*|no−0|bur−0
=|no−0|no−0
*|wil−2|ct−1
=|wil−2|wil−2
=|ct−1|ct−1
MAGIC.149.S2.C chr 4
=|hi−0|hi−0
=|col−0|col−0
=|no−0|no−0
*|wil−2|rsch−4
MAGIC.149.S2.C chr 5
=|wil−2|wil−2
*|wil−2|mt−0
=|wil−2|wil−2
=|no−0|no−0
=|no−0|no−0
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

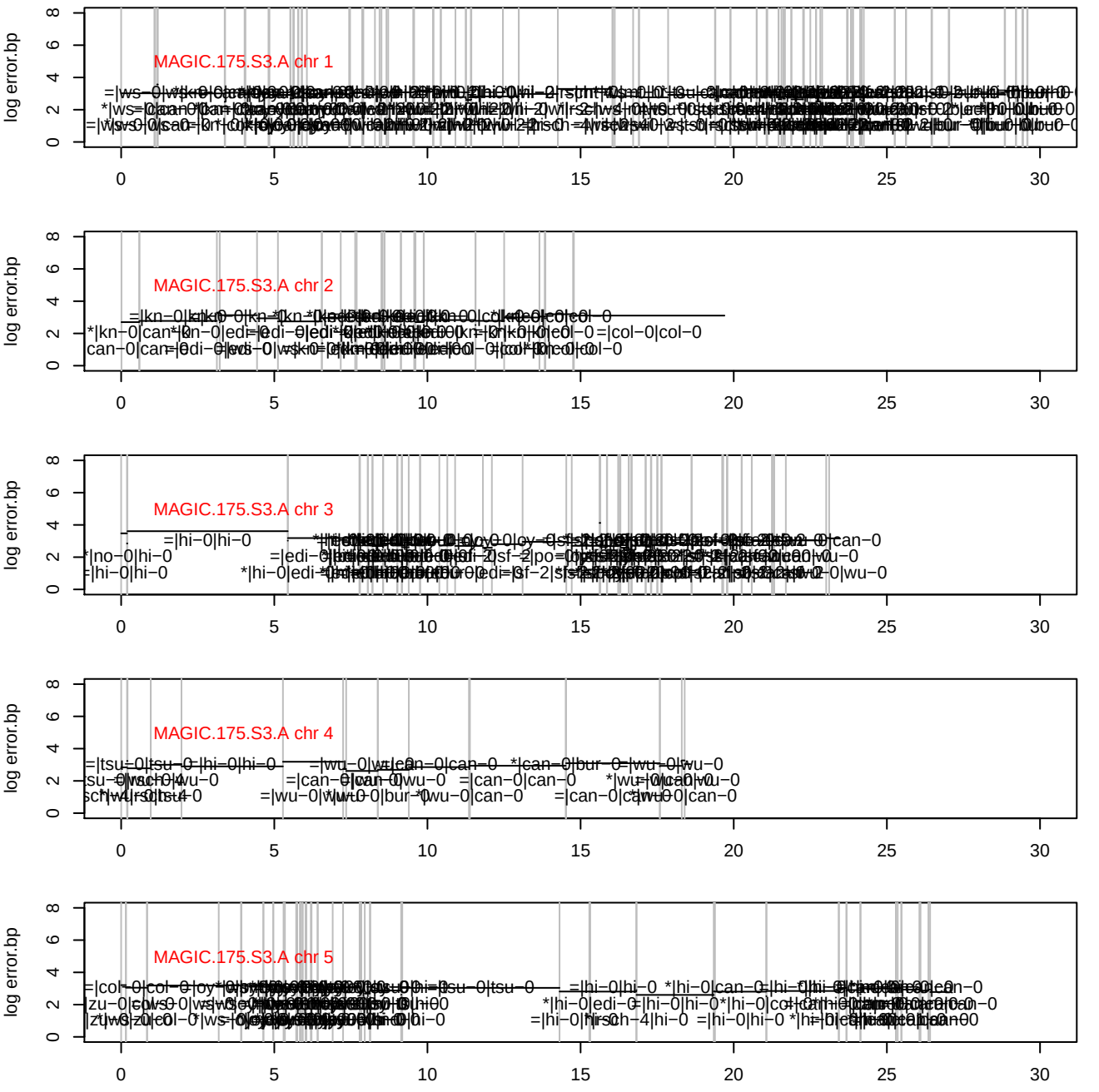

MAGIC.149.S2.D chr 1
MAGIC.149.S2.D chr 2
MAGIC.149.S2.D chr 3
MAGIC.149.S2.D chr 4
MAGIC.149.S2.D chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

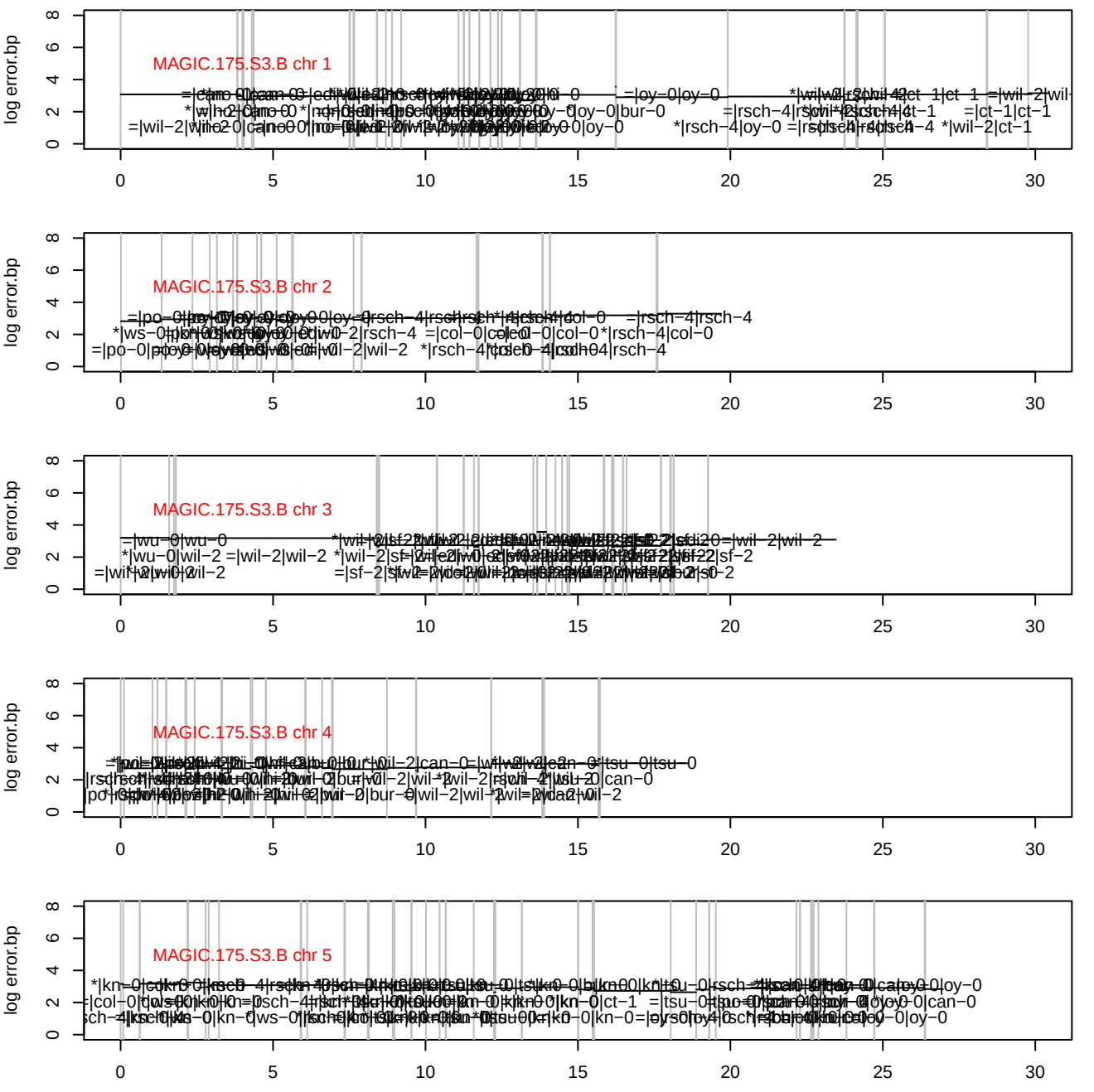

log error.bp
MAGIC.149.S4.A chr 1
=|no−0|no−0
*|wil−2|no−0
=|wil−2|wil−2
=|wil−2|wil−2
=|ws−0|ws−0
=|no−0|no−0
=|no−0|no−0
*|no−0|can−0
=|col−0|col−0
=|kn−0|kn−0
=|no−0|no−0
MAGIC.149.S4.A chr 2
=|ct−1|ct−1
=|hi−0|hi−0
=|mt−0|mt−0
=|hi−0|hi−0
=|wil−2|wil−2
=|hi−0|hi−0
=|mt−0|mt−0
=|hi−0|hi−0
=|wil−2|wil−2
MAGIC.149.S4.A chr 3
=|tsu−0|tsu−0
*|tsu−0|bur−0
=|tsu−0|tsu−0
=|no−0|no−0
*|ct−1|bur−0
=|ct−1|ct−1
=|ct−1|ct−1
*|wil−2|ct−1
*|hi−0|ct−1
=|wil−2|wil−2
=|ct−1|ct−1
MAGIC.149.S4.A chr 4
=|wil−2|wil−2
=|no−0|no−0
=|rsch−4|rsch−4
MAGIC.149.S4.A chr 5
=|wil−2|wil−2
=|no−0|no−0
=|wil−2|wil−2
=|no−0|no−0

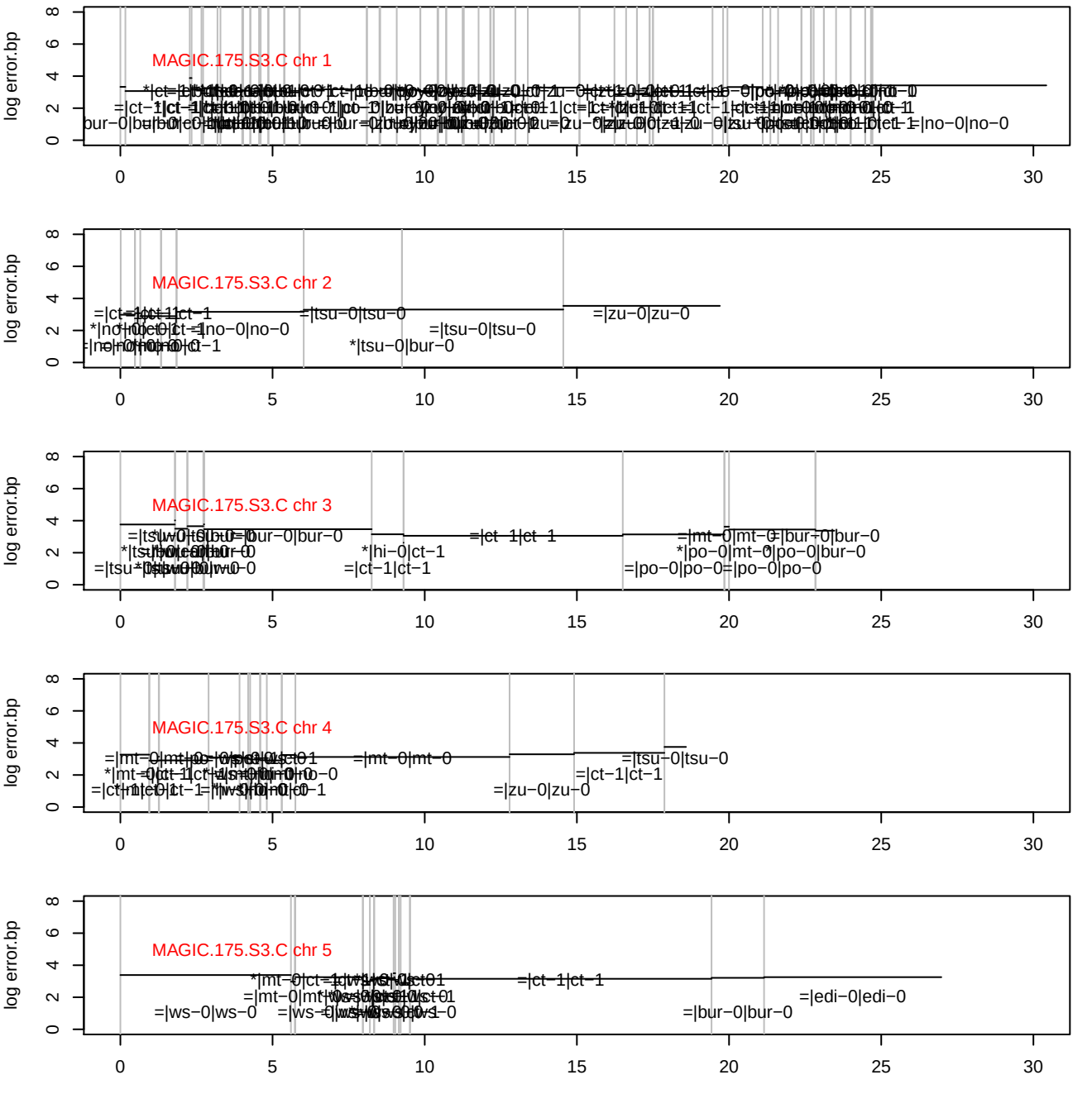

MAGIC.149.S4.B chr 1
=|ws−0|ws−0
=|no−0|no−0
=|no−0|no−0
=|col−0|col−0
*|ws−0|ws−0
=|wil−2|wil−2
=|no−0|no−0
=|kn−0|kn−0
=|wil−2|wil−2
*|wil−2|no−0
*|no−0|can−0
=|no−0|no−0
MAGIC.149.S4.B chr 2
=|ct−1|ct−1
=|wil−2|wil−2
=|hi−0|hi−0
=|hi−0|hi−0
=|wil−2|wil−2
=|hi−0|hi−0
MAGIC.149.S4.B chr 3
=|tsu−0|tsu−0
=|ct−1|ct−1
*|tsu−0|bur−0
=|tsu−0|tsu−0
=|no−0|no−0
=|ct−1|ct−1
MAGIC.149.S4.B chr 4
=|rsch−4|rsch−4
=|no−0|no−0
=|wil−2|wil−2
MAGIC.149.S4.B chr 5
=|wil−2|wil−2
=|no−0|no−0
=|wil−2|wil−2
=|no−0|no−0
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

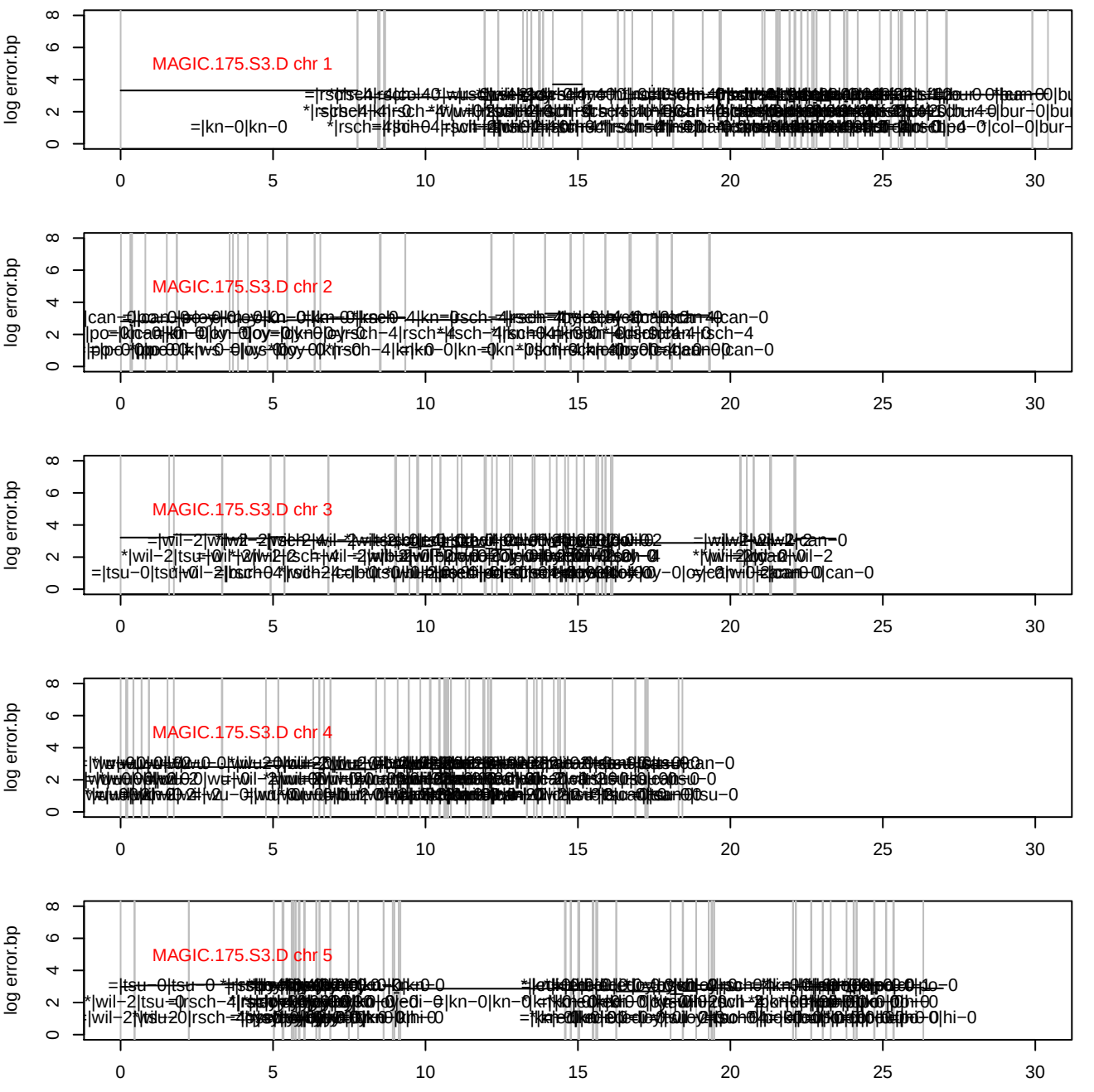

MAGIC.149.S5.A chr 1
=|ws−0|ws−0
=|wil−2|wil−2
=|no−0|no−0
*|zu−0|no−0
=|zu−0|zu−0
=|col−0|col−0
*|no−0|col−0
=|kn−0|kn−0
=|no−0|no−0
MAGIC.149.S5.A chr 2
=|wil−2|wil−2
=|hi−0|hi−0
=|ct−1|ct−1
=|hi−0|hi−0
*|hi−0|bur−0
=|hi−0|hi−0
=|wil−2|wil−2
=|hi−0|hi−0
=|mt−0|mt−0
MAGIC.149.S5.A chr 3
=|no−0|no−0
=|tsu−0|tsu−0
=|ct−1|ct−1
=|ct−1|ct−1
=|no−0|no−0
=|ct−1|ct−1
*|wil−2|wil−2
*|tsu−0|hi−0
*|no−0|bur−0
=|ct−1|ct−1
=|ct−1|ct−1
MAGIC.149.S5.A chr 4
=|wil−2|wil−2
=|rsch−4|rsch−4
=|no−0|no−0
=|rsch−4|rsch−4
*|rsch−4|ct−1
MAGIC.149.S5.A chr 5
=|wil−2|wil−2
*|wil−2|no−0
=|no−0|no−0
=|wil−2|wil−2
=|no−0|no−0
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

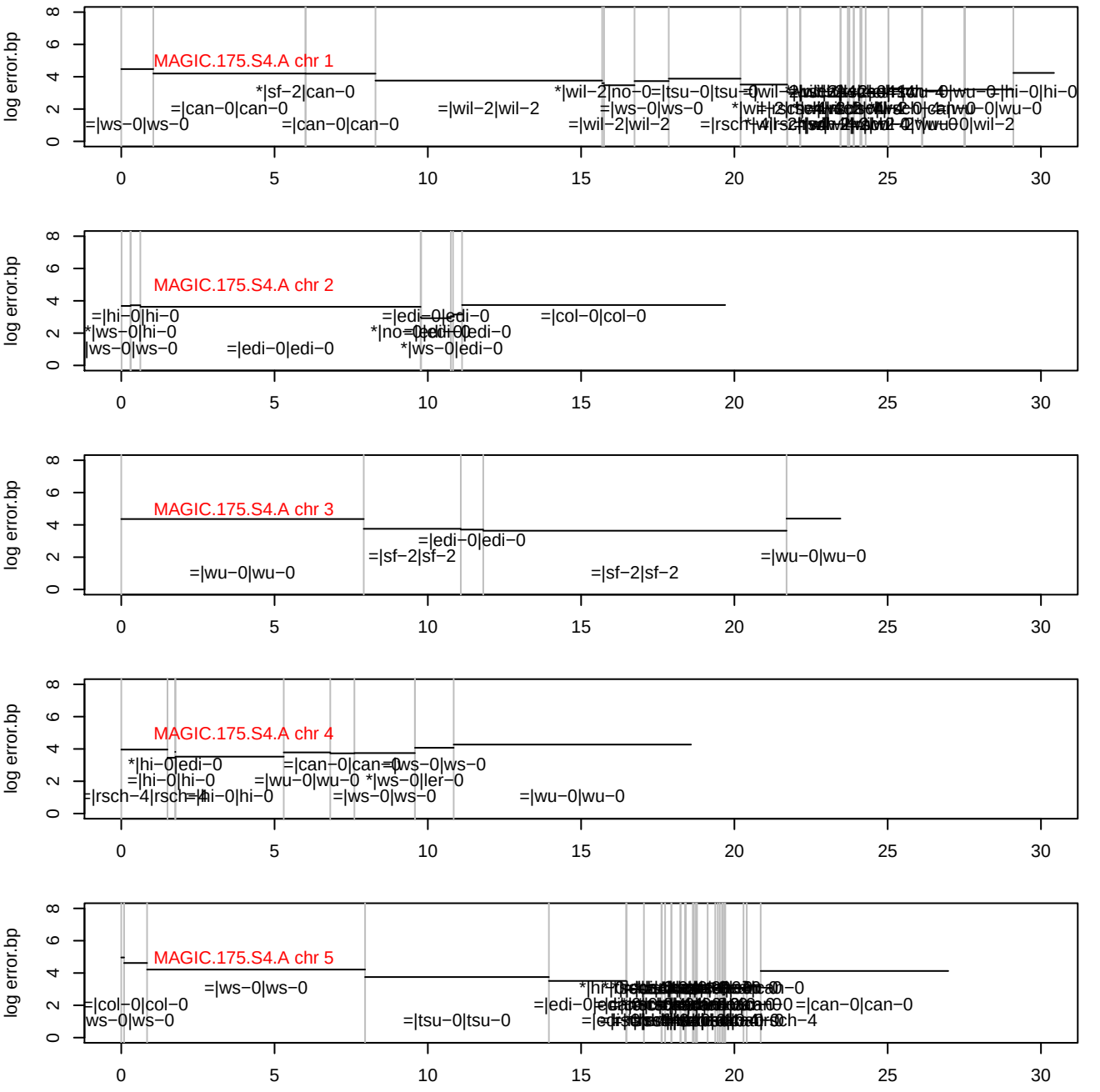

MAGIC.149.S5.B chr 1
MAGIC.149.S5.B chr 2
MAGIC.149.S5.B chr 3
MAGIC.149.S5.B chr 4
MAGIC.149.S5.B chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

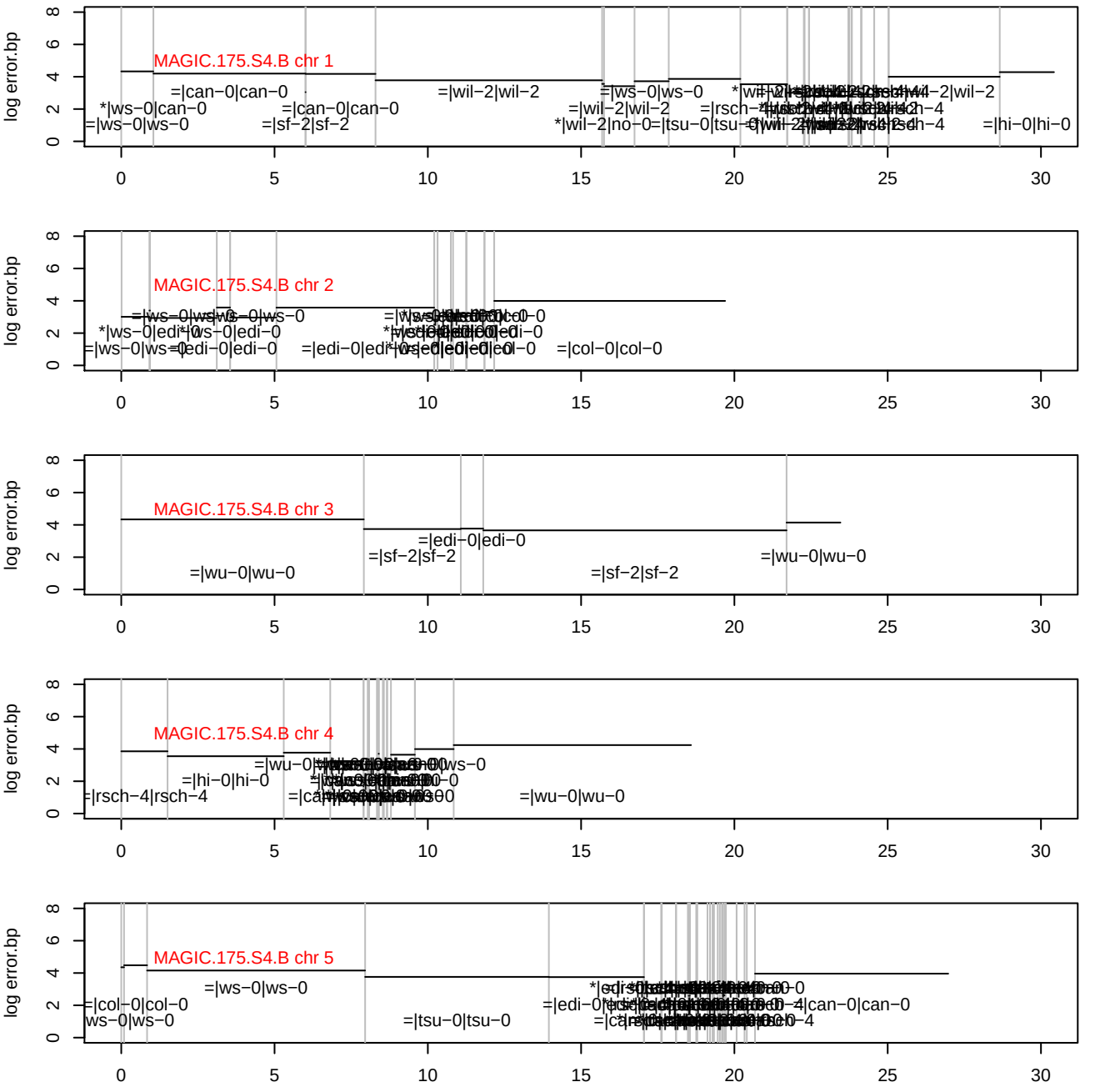

MAGIC.175.S3.A chr 1
MAGIC.175.S3.A chr 2
MAGIC.175.S3.A chr 3
MAGIC.175.S3.A chr 4
MAGIC.175.S3.A chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

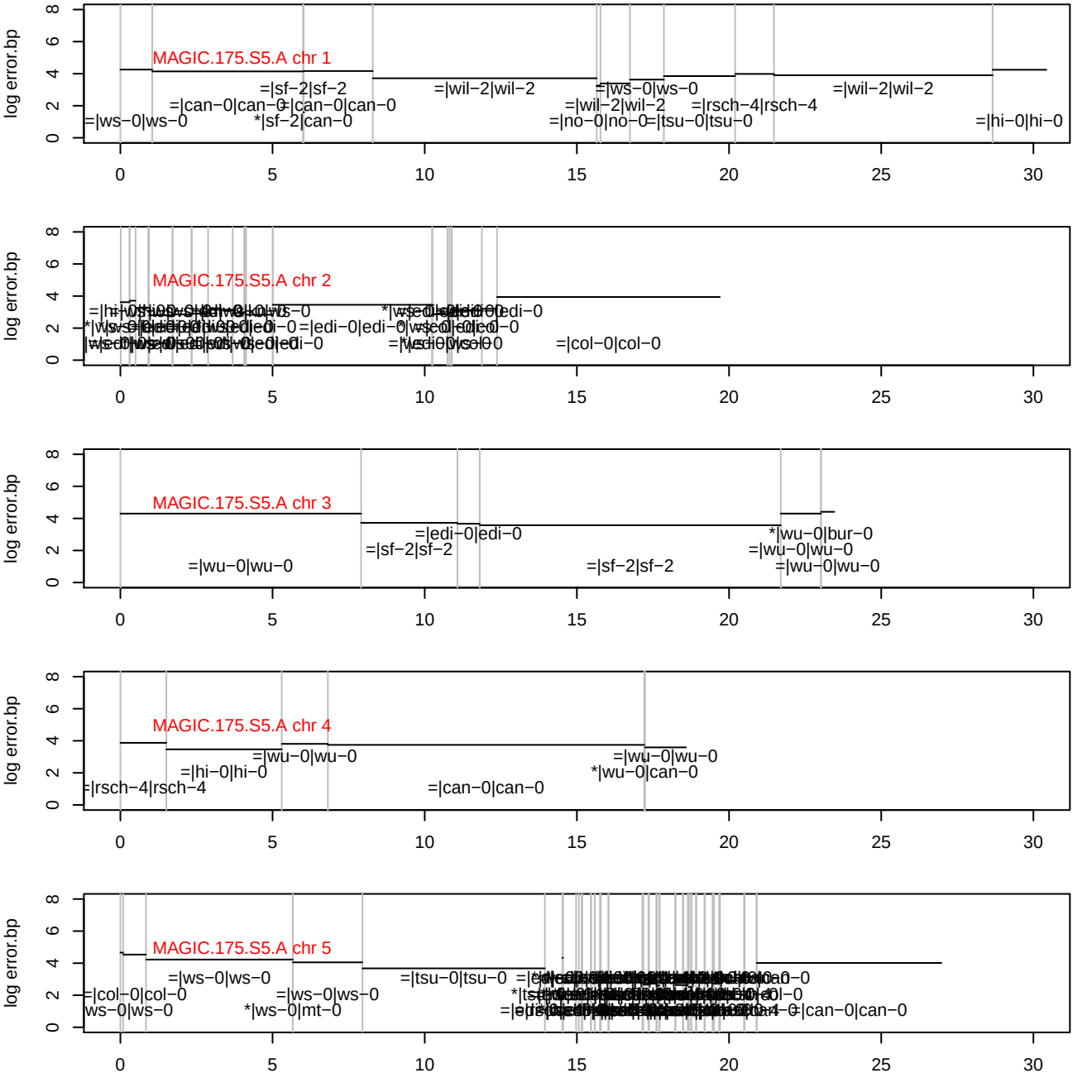

MAGIC.175.S3.B chr 1
MAGIC.175.S3.B chr 2
MAGIC.175.S3.B chr 3
MAGIC.175.S3.B chr 4
MAGIC.175.S3.B chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

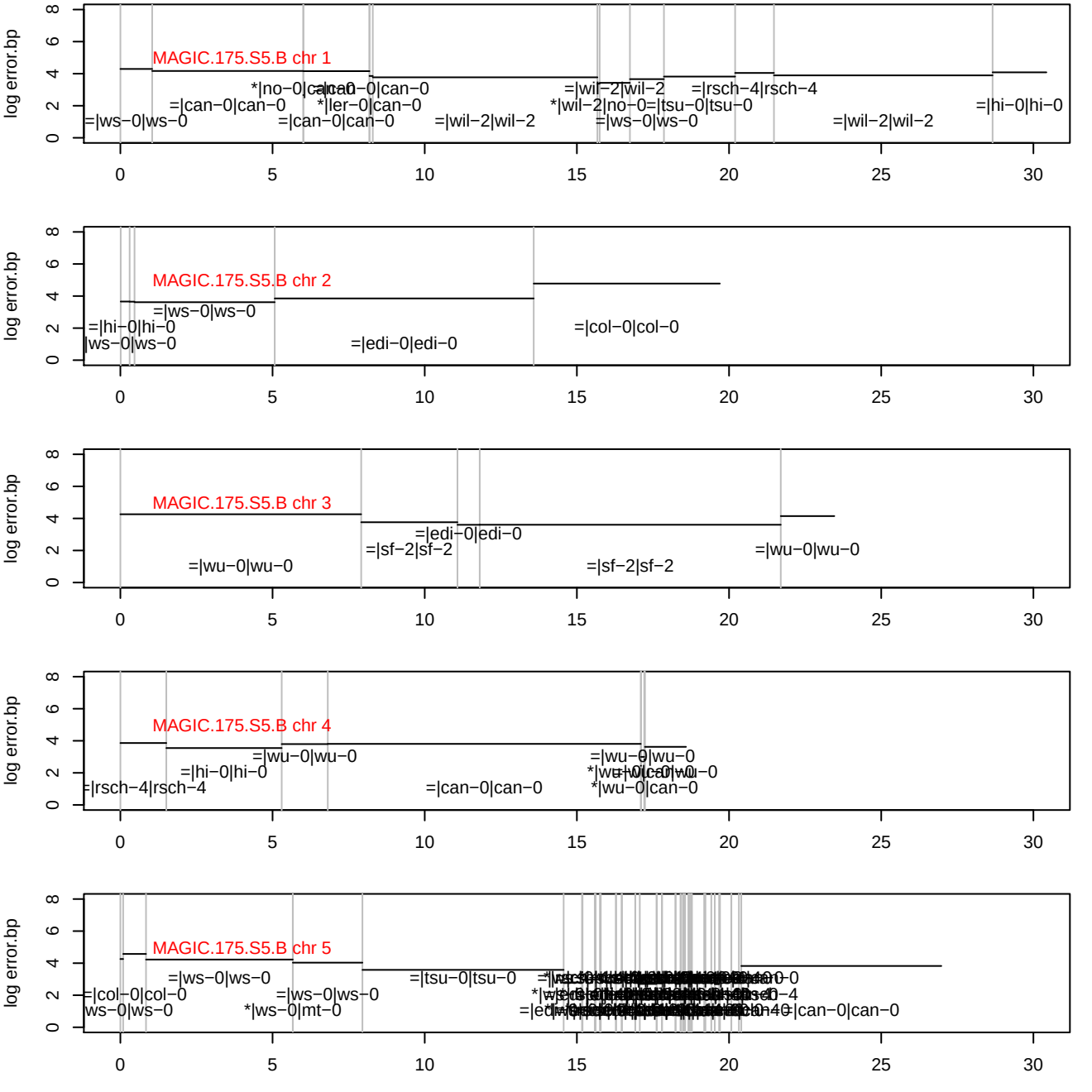

MAGIC.175.S3.C chr 1
MAGIC.175.S3.C chr 2
MAGIC.175.S3.C chr 3
MAGIC.175.S3.C chr 4
MAGIC.175.S3.C chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

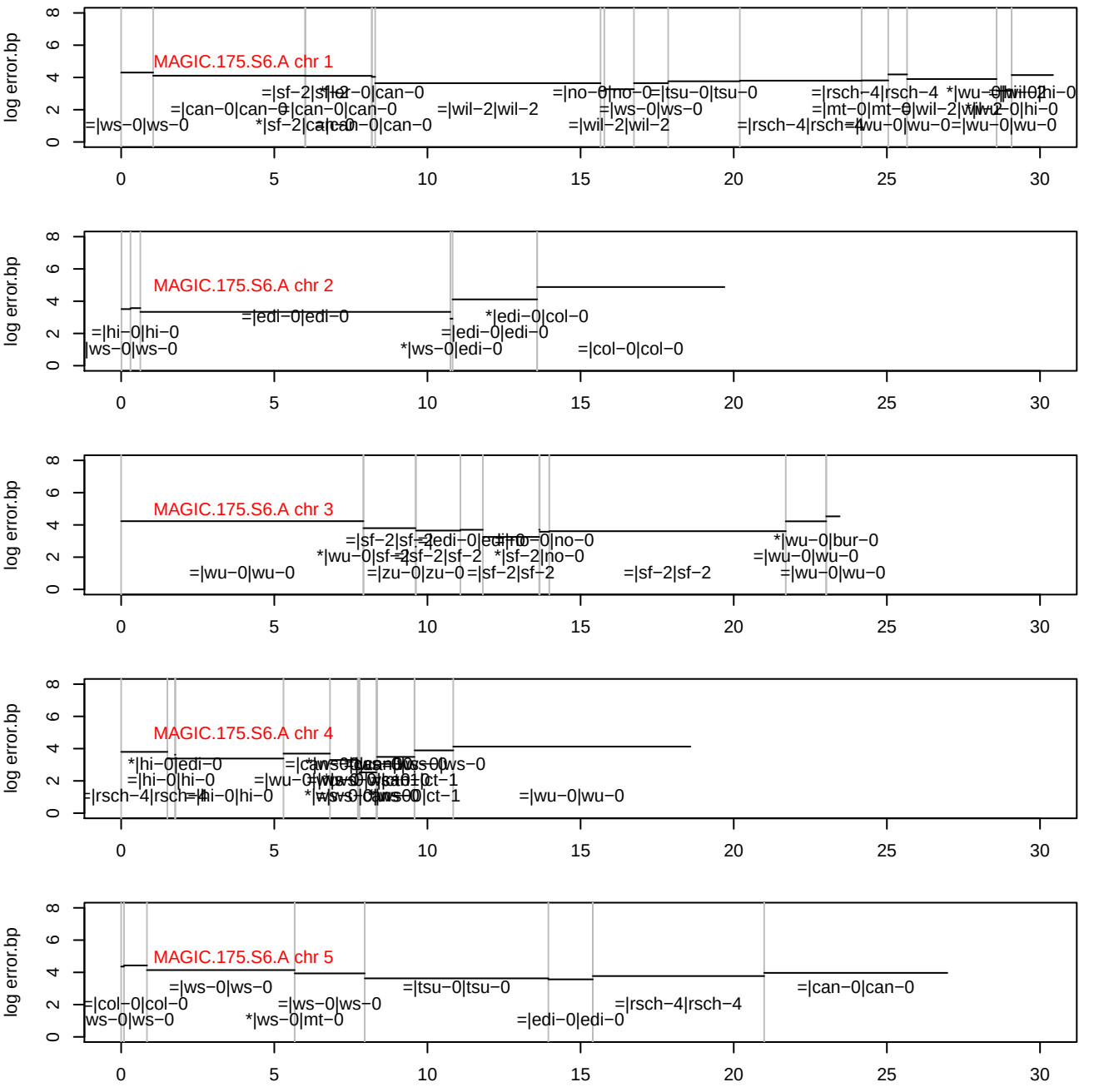

MAGIC.175.S3.D chr 1
MAGIC.175.S3.D chr 2
MAGIC.175.S3.D chr 3
MAGIC.175.S3.D chr 4
MAGIC.175.S3.D chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

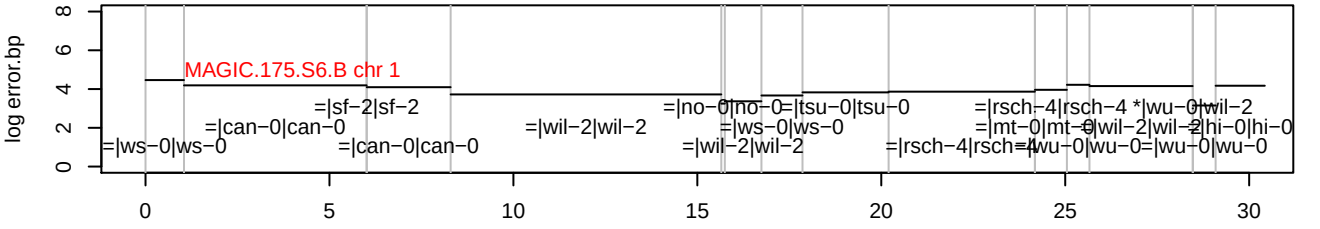

log error.bp
MAGIC.175.S4.A chr 1
*|sf−2|can−0
=|can−0|can−0
=|ws−0|ws−0
=|can−0|can−0
=|wil−2|wil−2
*|wil−2|no−0
=|ws−0|ws−0
=|wil−2|wil−2
MAGIC.175.S4.A chr 2
=|hi−0|hi−0
*|ws−0|hi−0
|ws−0|ws−0
=|edi−0|edi−0
=|edi−0|edi−0
*|ws−0|edi−0
=|col−0|col−0
MAGIC.175.S4.A chr 3
=|edi−0|edi−0
=|sf−2|sf−2
=|wu−0|wu−0
=|sf−2|sf−2
=|wu−0|wu−0
MAGIC.175.S4.A chr 4
*|hi−0|edi−0
=|hi−0|hi−0
=|rsch−4|rsch−4
=|wu−0|wu−0
=|ws−0|ler−0
=|ws−0|ws−0
=|wu−0|wu−0
MAGIC.175.S4.A chr 5
=|ws−0|ws−0
=|col−0|col−0
=|tsu−0|tsu−0
=|edi−0|edi−0
=|can−0|can−0
0
5
10
15
20
25
30

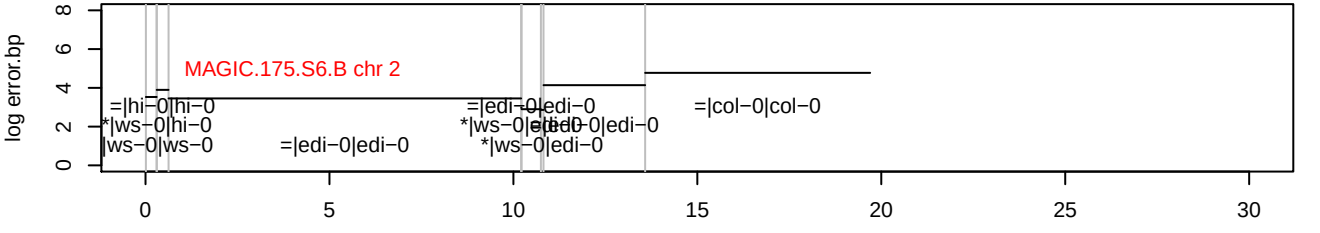

MAGIC.175.S4.B chr 1
log error.bp
=|can−0|can−0
=|wil−2|wil−2
=|ws−0|ws−0
*|ws−0|can−0
=|can−0|can−0
=|wil−2|wil−2
=|ws−0|ws−0
=|sf−2|sf−2
*|wil−2|no−0
=|hi−0|hi−0
MAGIC.175.S4.B chr 2
log error.bp
=|ws−0|ws−0
*|ws−0|edi−0
=|ws−0|ws−0
=|edi−0|edi−0
=|edi−0|edi−0
=|col−0|col−0
MAGIC.175.S4.B chr 3
log error.bp
=|edi−0|edi−0
=|sf−2|sf−2
=|wu−0|wu−0
=|sf−2|sf−2
=|wu−0|wu−0
MAGIC.175.S4.B chr 4
log error.bp
=|wu−0|wu−0
=|hi−0|hi−0
=|rsch−4|rsch−4
=|wu−0|wu−0
MAGIC.175.S4.B chr 5
log error.bp
=|ws−0|ws−0
=|col−0|col−0
=|tsu−0|tsu−0
=|can−0|can−0
0
5
10
15
20
25
30

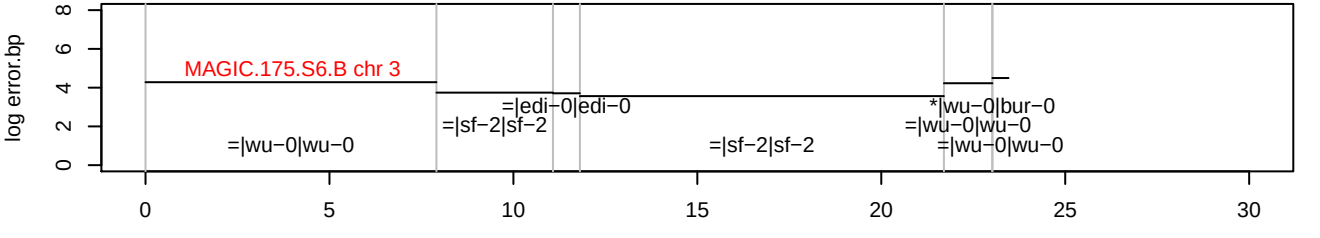

log error.bp
MAGIC.175.S5.A chr 1
=|ws−0|ws−0
=|can−0|can−0
=|can−0|can−0
*|sf−2|can−0
=|sf−2|sf−2
=|wil−2|wil−2
=|no−0|no−0
=|ws−0|ws−0
=|wil−2|wil−2
=|tsu−0|tsu−0
=|rsch−4|rsch−4
=|wil−2|wil−2
=|hi−0|hi−0
MAGIC.175.S5.A chr 2
=|edi−0|edi−0
=|col−0|col−0
MAGIC.175.S5.A chr 3
=|wu−0|wu−0
=|sf−2|sf−2
=|edi−0|edi−0
=|sf−2|sf−2
*|wu−0|bur−0
=|wu−0|wu−0
=|wu−0|wu−0
MAGIC.175.S5.A chr 4
=|rsch−4|rsch−4
=|hi−0|hi−0
=|wu−0|wu−0
=|can−0|can−0
=|wu−0|wu−0
*|wu−0|can−0
MAGIC.175.S5.A chr 5
=|col−0|col−0
=|ws−0|ws−0
=|ws−0|ws−0
*|ws−0|mt−0
=|tsu−0|tsu−0
=|can−0|can−0
0
5
10
15
20
25
30

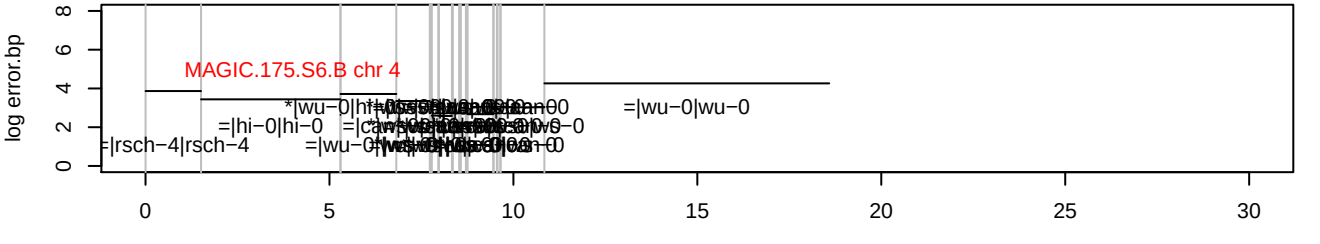

MAGIC.175.S5.B chr 1
log error.bp
=|ws−0|ws−0
=|can−0|can−0
*|no−0|can−0
=|can−0|can−0
*|ler−0|can−0
=|wil−2|wil−2
=|wil−2|wil−2
*|wil−2|no−0
=|tsu−0|tsu−0
=|rsch−4|rsch−4
=|ws−0|ws−0
=|wil−2|wil−2
=|hi−0|hi−0
MAGIC.175.S5.B chr 2
log error.bp
=|hi−0|hi−0
=|ws−0|ws−0
|ws−0|ws−0
=|edi−0|edi−0
=|col−0|col−0
MAGIC.175.S5.B chr 3
log error.bp
=|wu−0|wu−0
=|sf−2|sf−2
=|edi−0|edi−0
=|sf−2|sf−2
=|wu−0|wu−0
MAGIC.175.S5.B chr 4
log error.bp
=|rsch−4|rsch−4
=|hi−0|hi−0
=|wu−0|wu−0
=|can−0|can−0
=|wu−0|wu−0
*|wu−0|can−0
MAGIC.175.S5.B chr 5
log error.bp
=|col−0|col−0
ws−0|ws−0
=|ws−0|ws−0
*|ws−0|mt−0
=|ws−0|ws−0
=|tsu−0|tsu−0
=|can−0|can−0
0
5
10
15
20
25
30

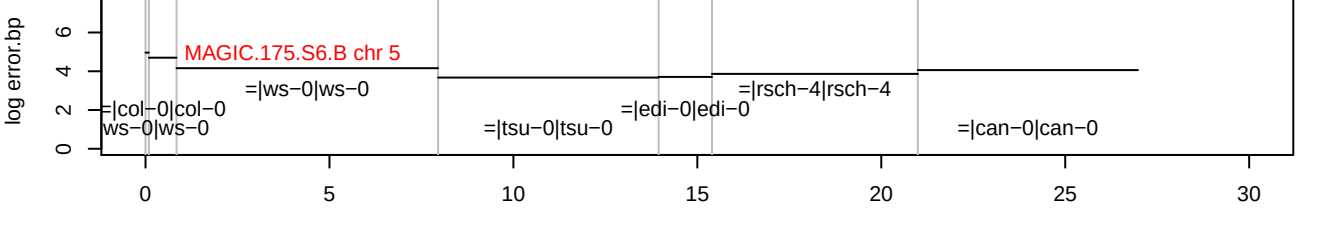

MAGIC.175.S6.A chr 1
MAGIC.175.S6.A chr 2
MAGIC.175.S6.A chr 3
MAGIC.175.S6.A chr 4
MAGIC.175.S6.A chr 5
log error.bp
0
2
4
6
8
0
5
10
15
20
25
30

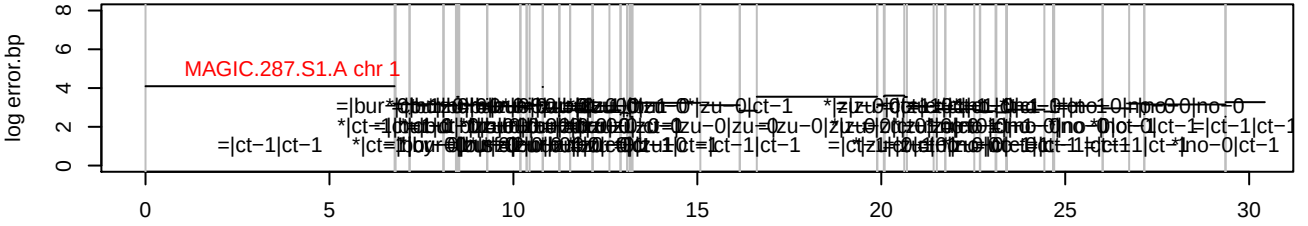

MAGIC.175.S6.B chr 1
log error.bp
=|ws−0|ws−0
=|can−0|can−0
=|sf−2|sf−2
=|can−0|can−0
=|wil−2|wil−2
=|no−0|no−0
=|ws−0|ws−0
=|wil−2|wil−2
=|tsu−0|tsu−0
=|rsch−4|rsch−4
=|wu−0|wu−0
=|wu−0|wu−0
=|mt−0|mt−0
=|wil−2|wil−2
=|hi−0|hi−0
0
5
10
15
20
25
30

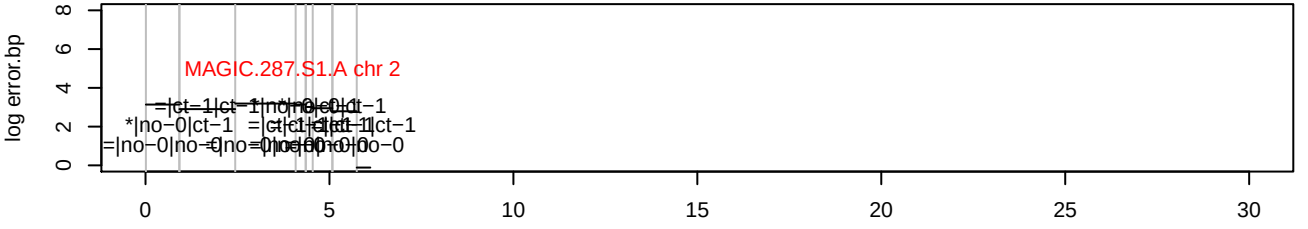

MAGIC.175.S6.B chr 2
log error.bp
=|hi−0|hi−0
*|ws−0|hi−0
|ws−0|ws−0
=|edi−0|edi−0
=|edi−0|edi−0
*|ws−0|edi−0
=|col−0|col−0
0
5
10
15
20
25
30


MAGIC.175.S6.B chr 3
log error.bp
=|wu−0|wu−0
=|sf−2|sf−2
=|edi−0|edi−0
=|sf−2|sf−2
*|wu−0|bur−0
=|wu−0|wu−0
=|wu−0|wu−0
0
5
10
15
20
25
30


MAGIC.175.S6.B chr 4
log error.bp
=|rsch−4|rsch−4
=|hi−0|hi−0
=|wu−0|wu−0
0
5
10
15
20
25
30


MAGIC.175.S6.B chr 5
log error.bp
=|col−0|col−0
ws−0|ws−0
=|ws−0|ws−0
=|tsu−0|tsu−0
=|edi−0|edi−0
=|rsch−4|rsch−4
=|can−0|can−0
0
5
10
15
20
25
30


log error.bp
MAGIC.287.S1.A chr 1
0
2
4
6
8
0
5
10
15
20
25
30


log error.bp
MAGIC.287.S1.A chr 2
0
2
4
6
8
0
5
10
15
20
25
30