

Hox6-8

n=79

other

Hox6-8

refOG

ANTP.9
ANTP.89
ANTP.88
ANTP.87
ANTP.76
ANTP.75
ANTP.52
ANTP.50
ANTP.6
ANTP.58
ANTP.56
ANTP.53
ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40
ANTP.4

ANTP.39
ANTP.38
ANTP.36
ANTP.34
ANTP.33
ANTP.32
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ANTP.28
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ANTP.19
ANTP.18
ANTP.17
ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Hox6-8 is ANTP.43, ANTP.83
Precision = 0.56 | Recall = 0.41 | F-score = 0.47

Possvm

Hox9–13(15)

n=139

other

Hox9–13(15)

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.49
ANTP.48
ANTP.47
ANTP.46
ANTP.45
ANTP.44

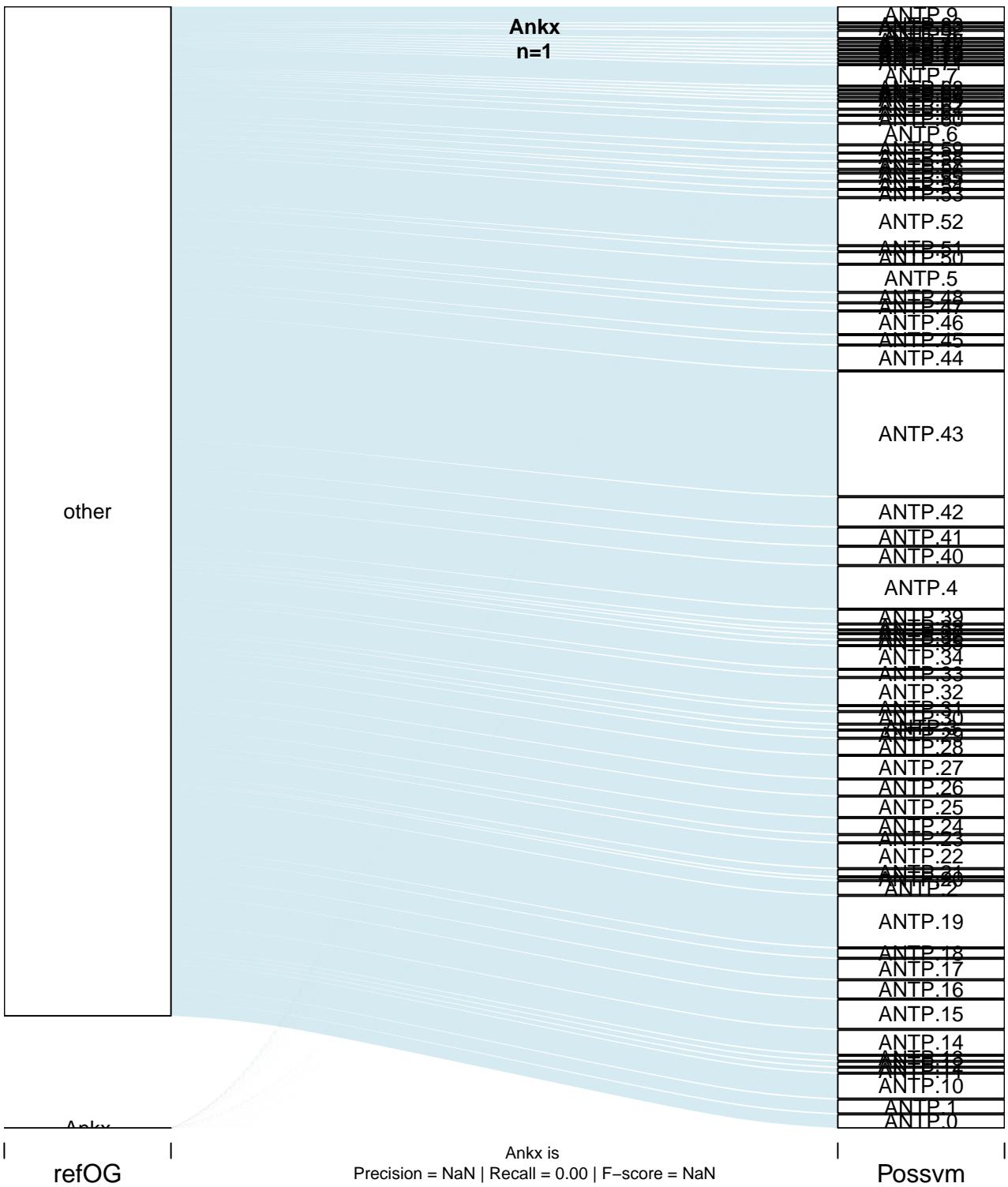
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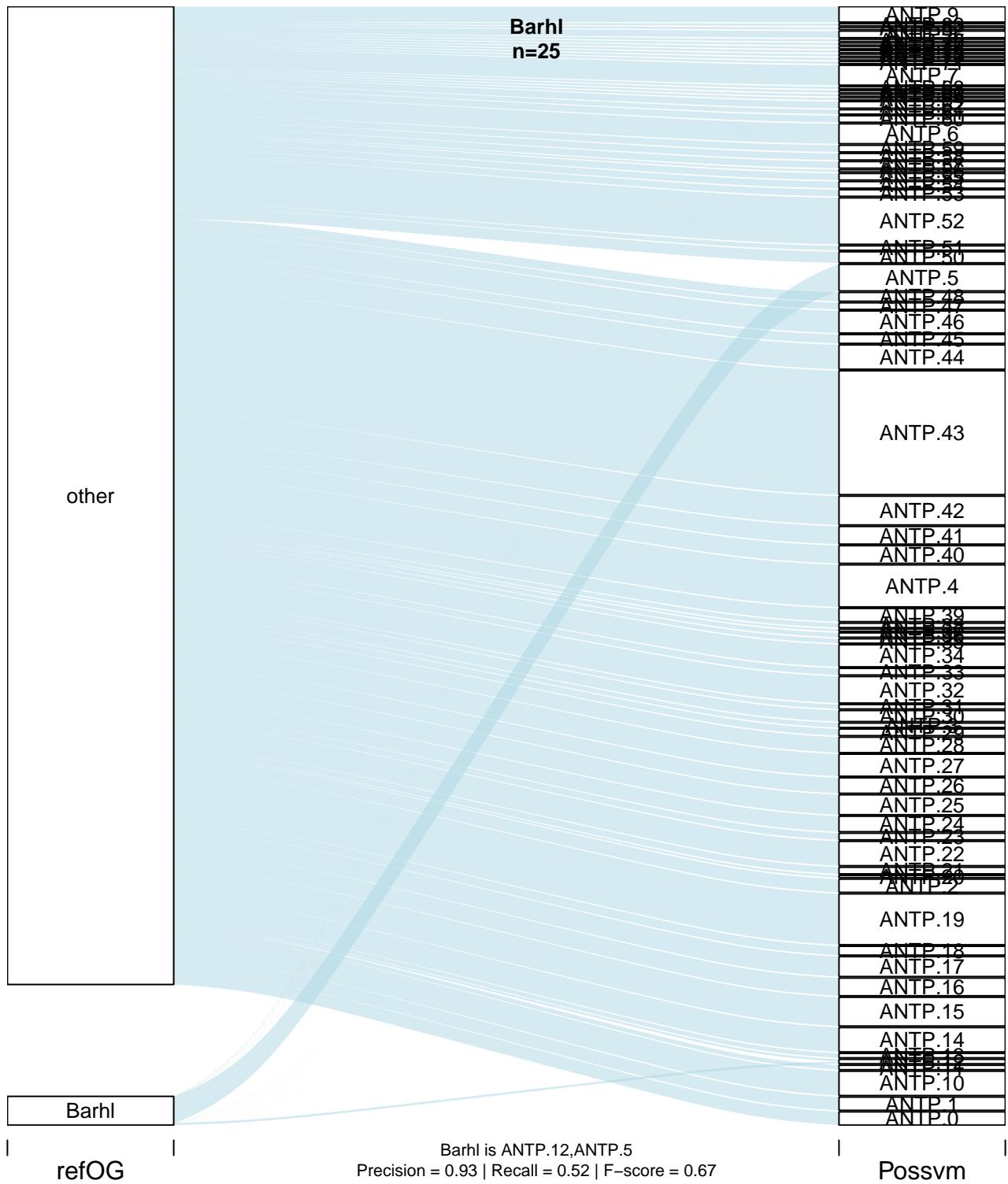
ANTP.42
ANTP.41
ANTP.40

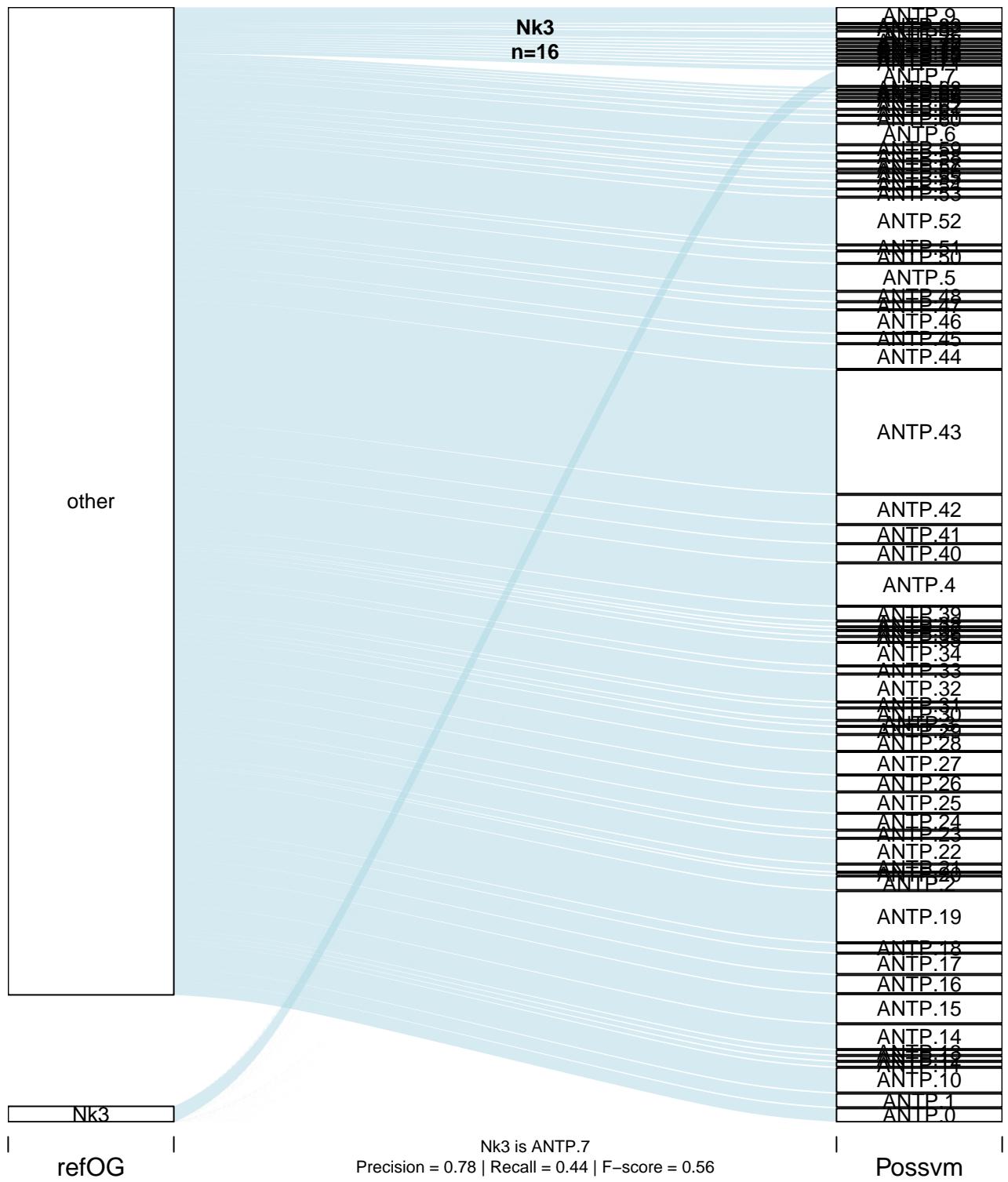
ANTP.4

ANTP.39
ANTP.38
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ANTP.36
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ANTP.1
ANTP.0



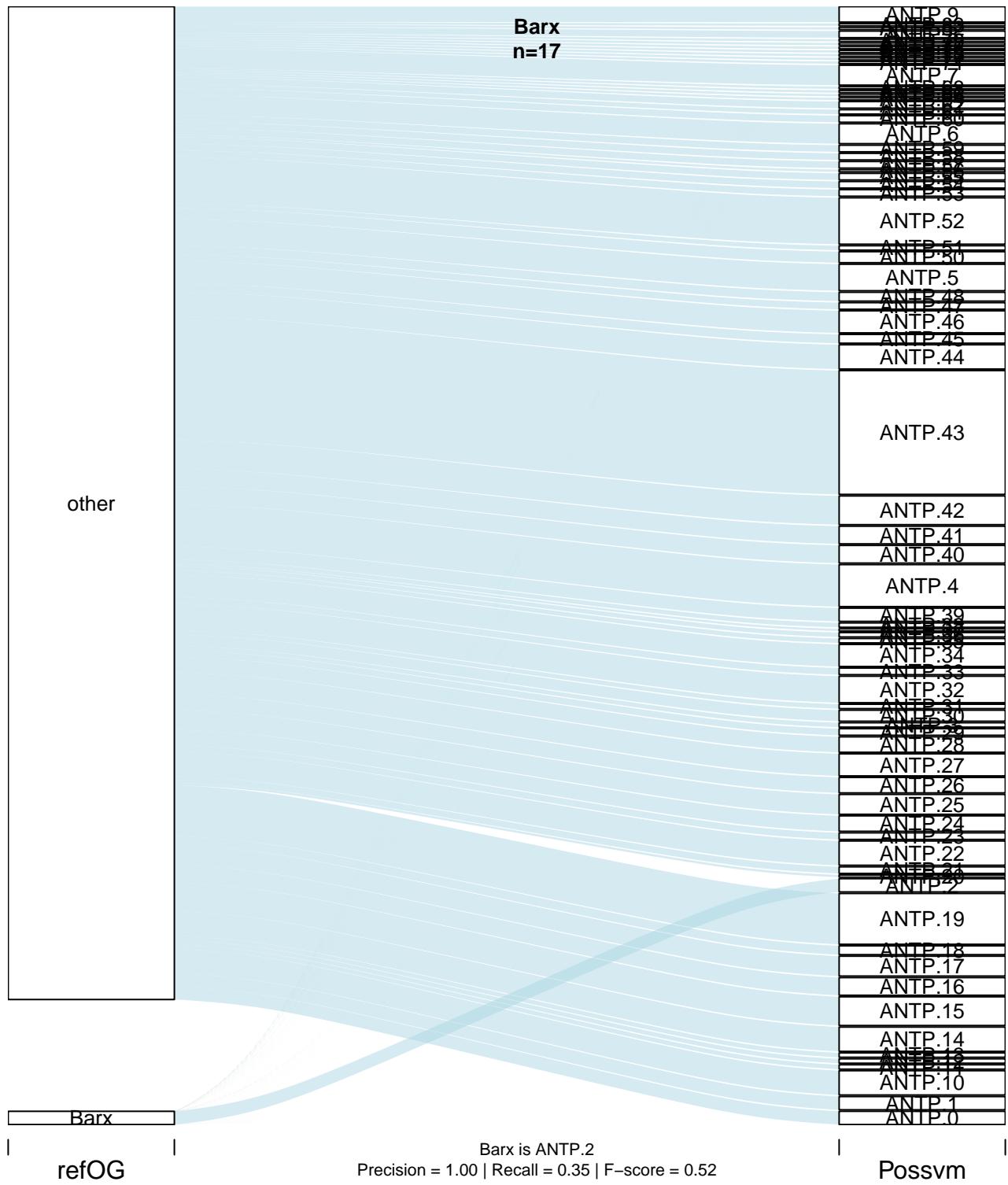




Nk3 is ANTP.7

Precision = 0.78 | Recall = 0.44 | F-score = 0.56

Possvm



Hox3
n=32

other

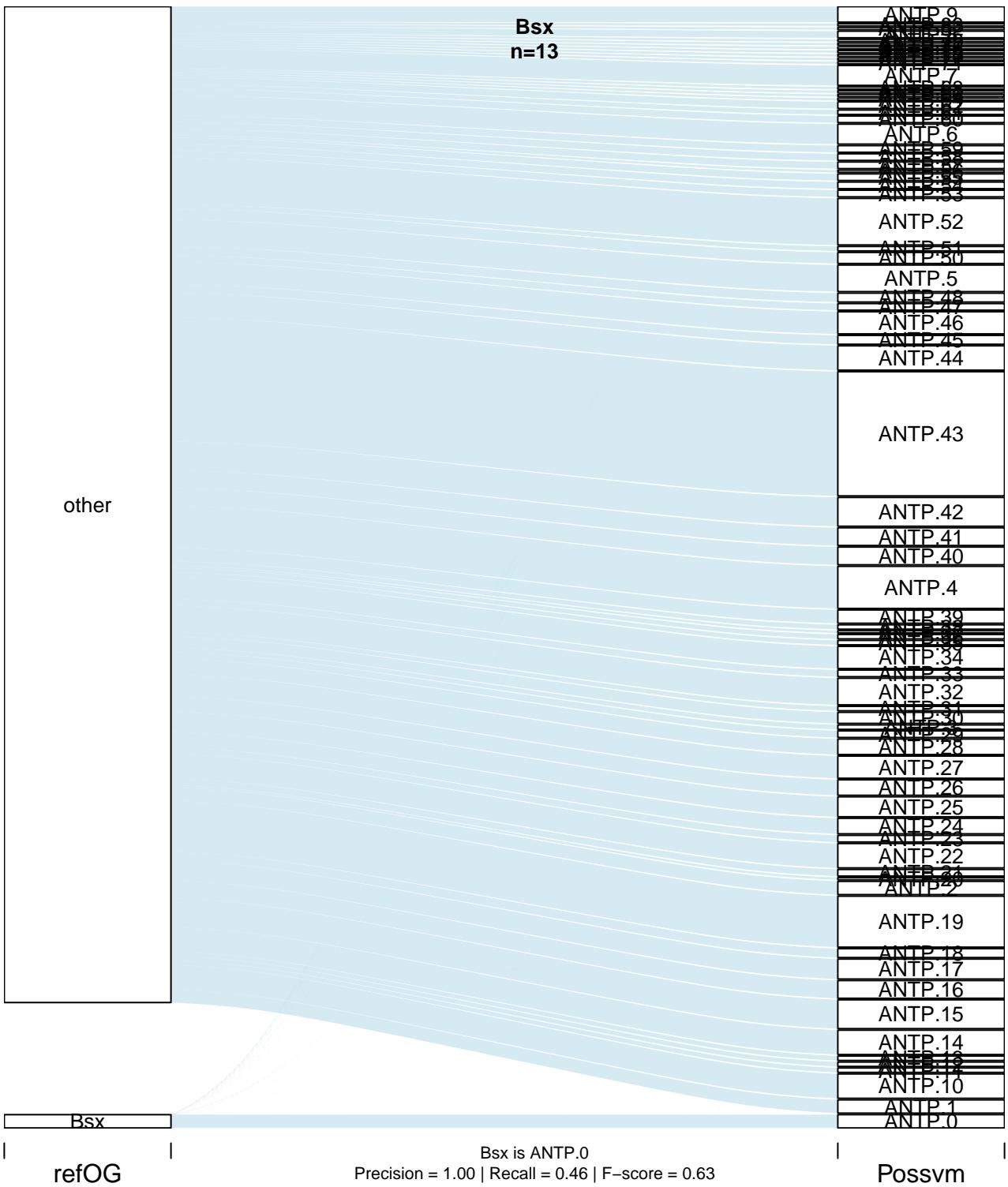
Hox3

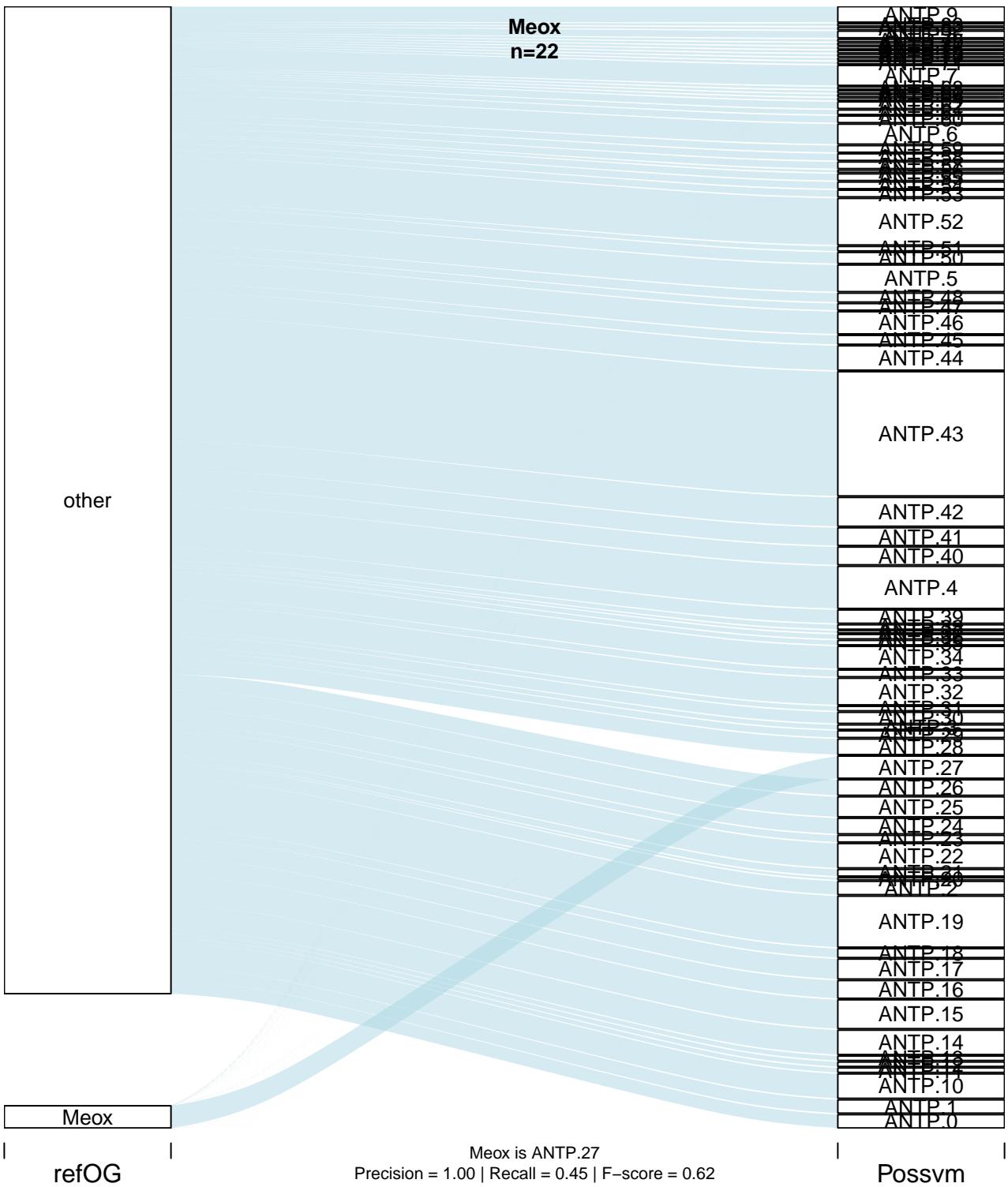
refOG

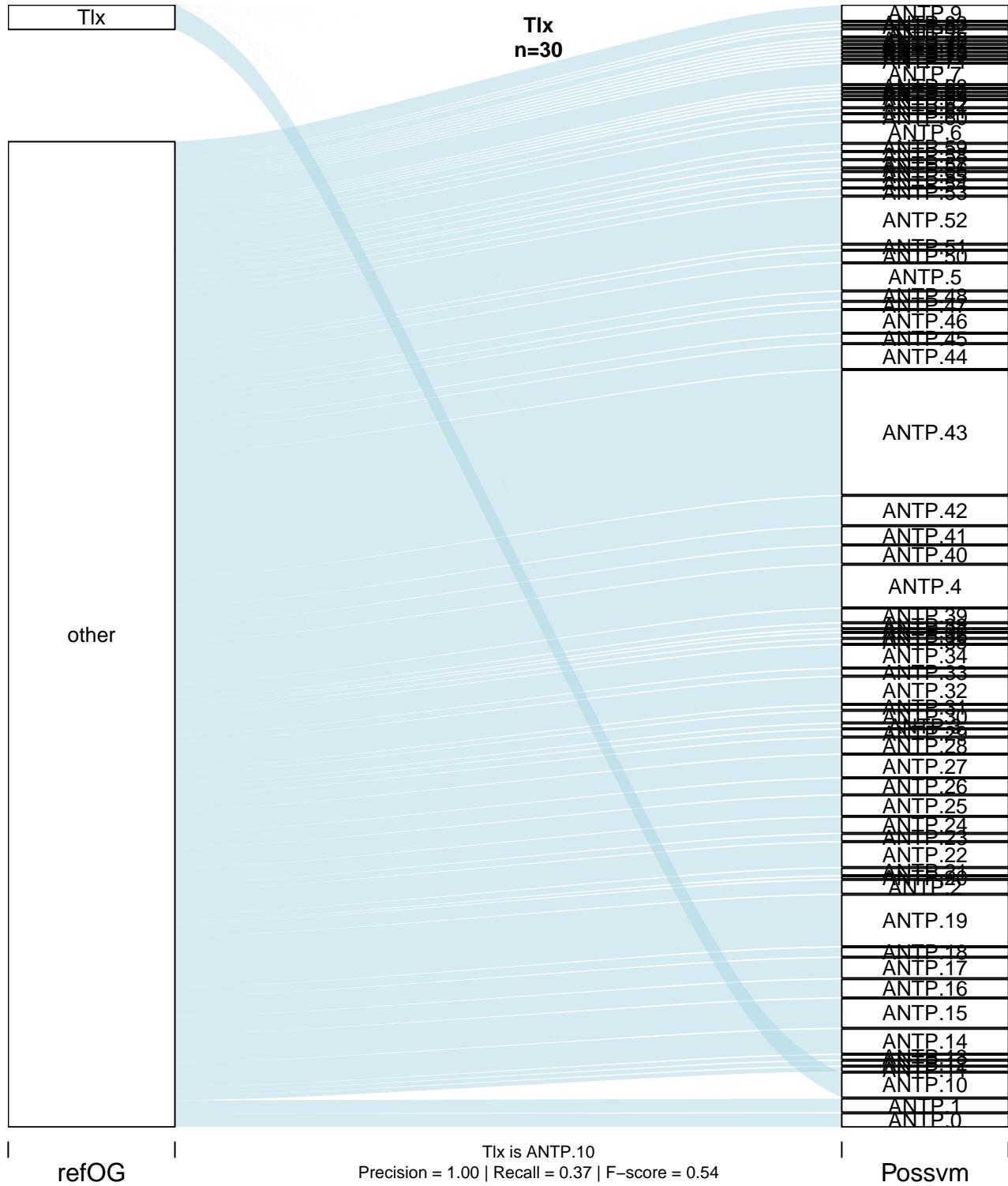
ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0
ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
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ANTP.44
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ANTP.10
ANTP.1
ANTP.0

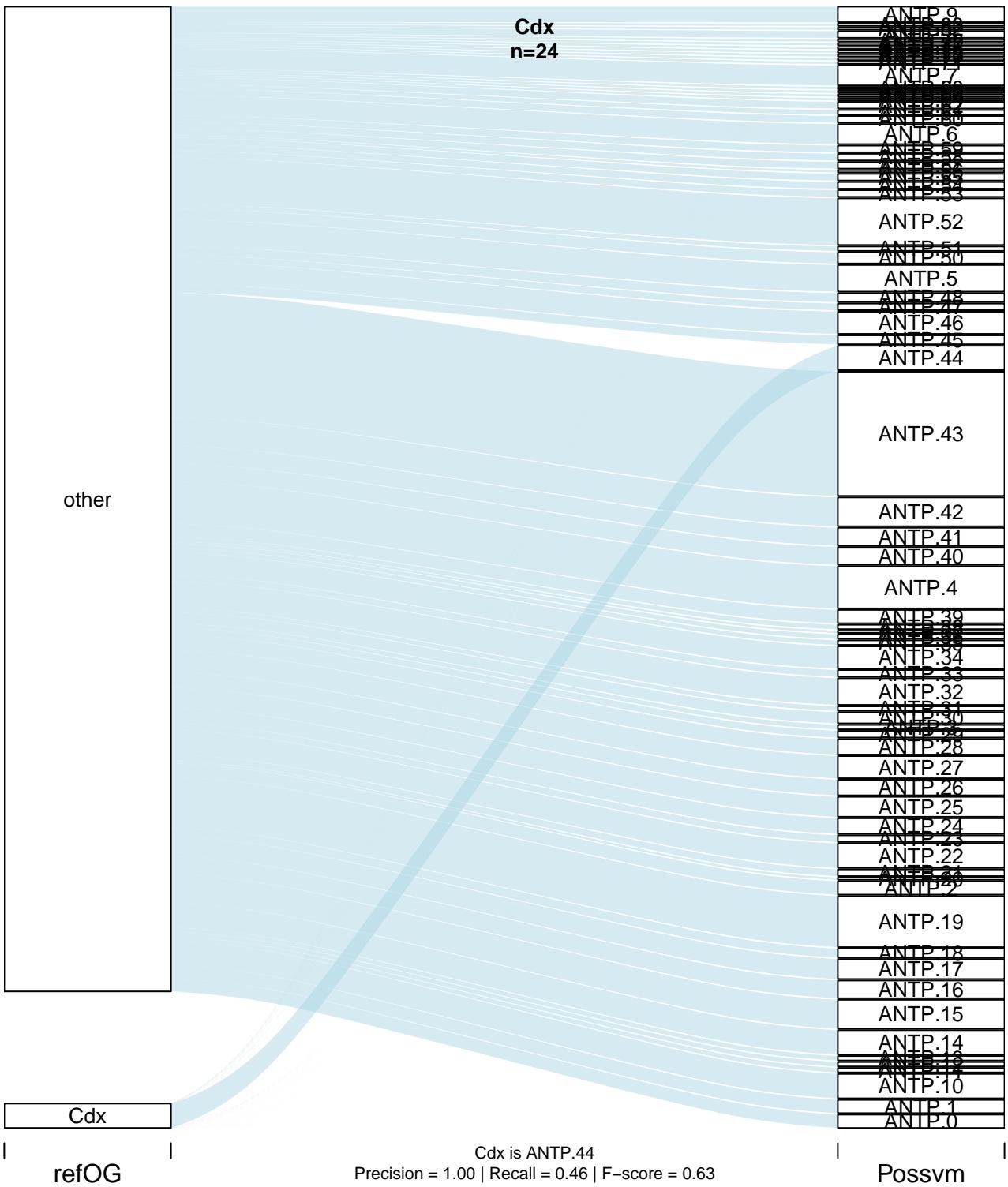
Hox3 is ANTP.38, ANTP.46, ANTP.52
Precision = 0.39 | Recall = 0.41 | F-score = 0.40

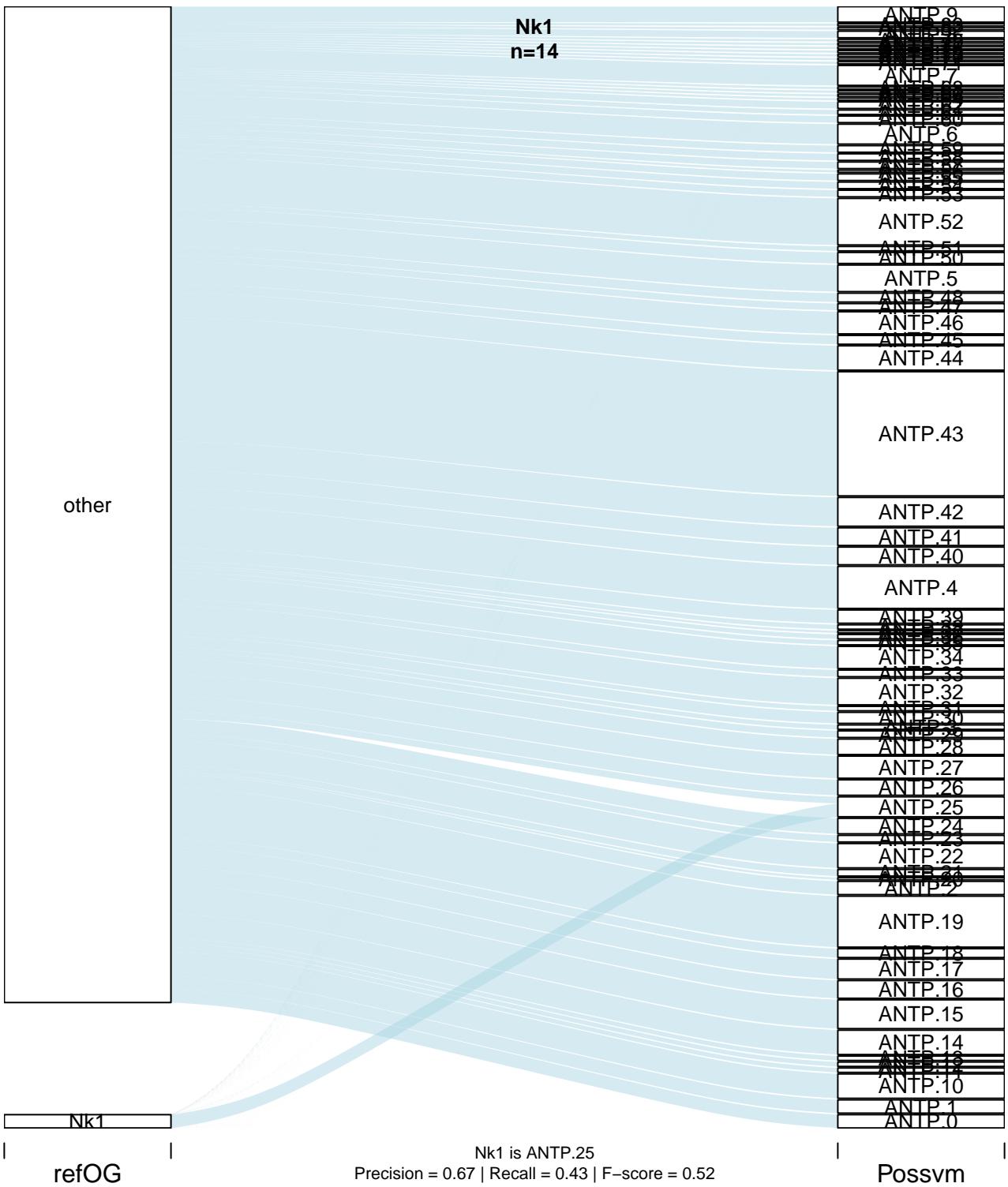
Possvm

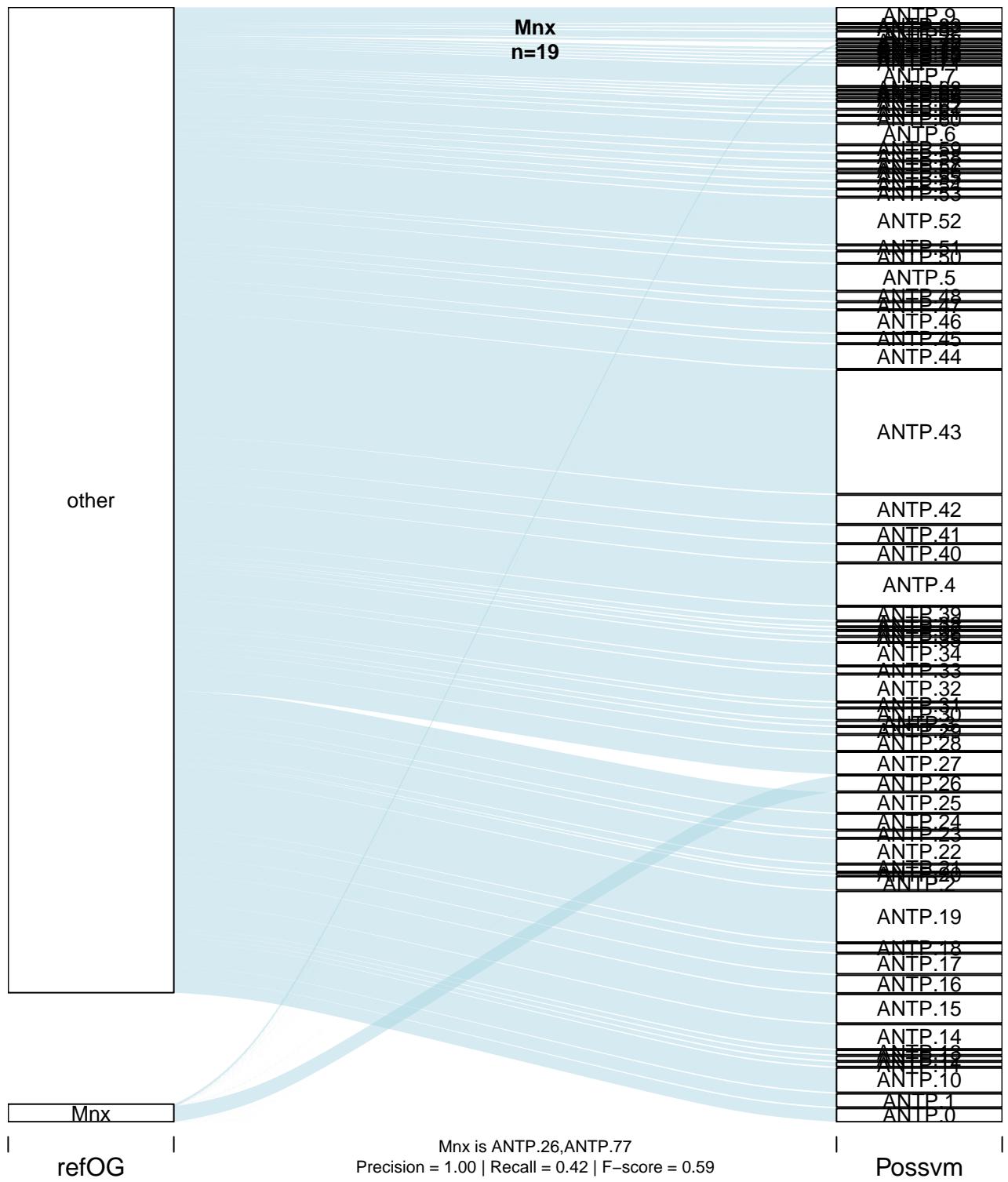












Mnx

refOG

Mnx is ANTP.26, ANTP.77

Precision = 1.00 | Recall = 0.42 | F-score = 0.59

Possvm

Hox1
n=25

other

Hox1

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

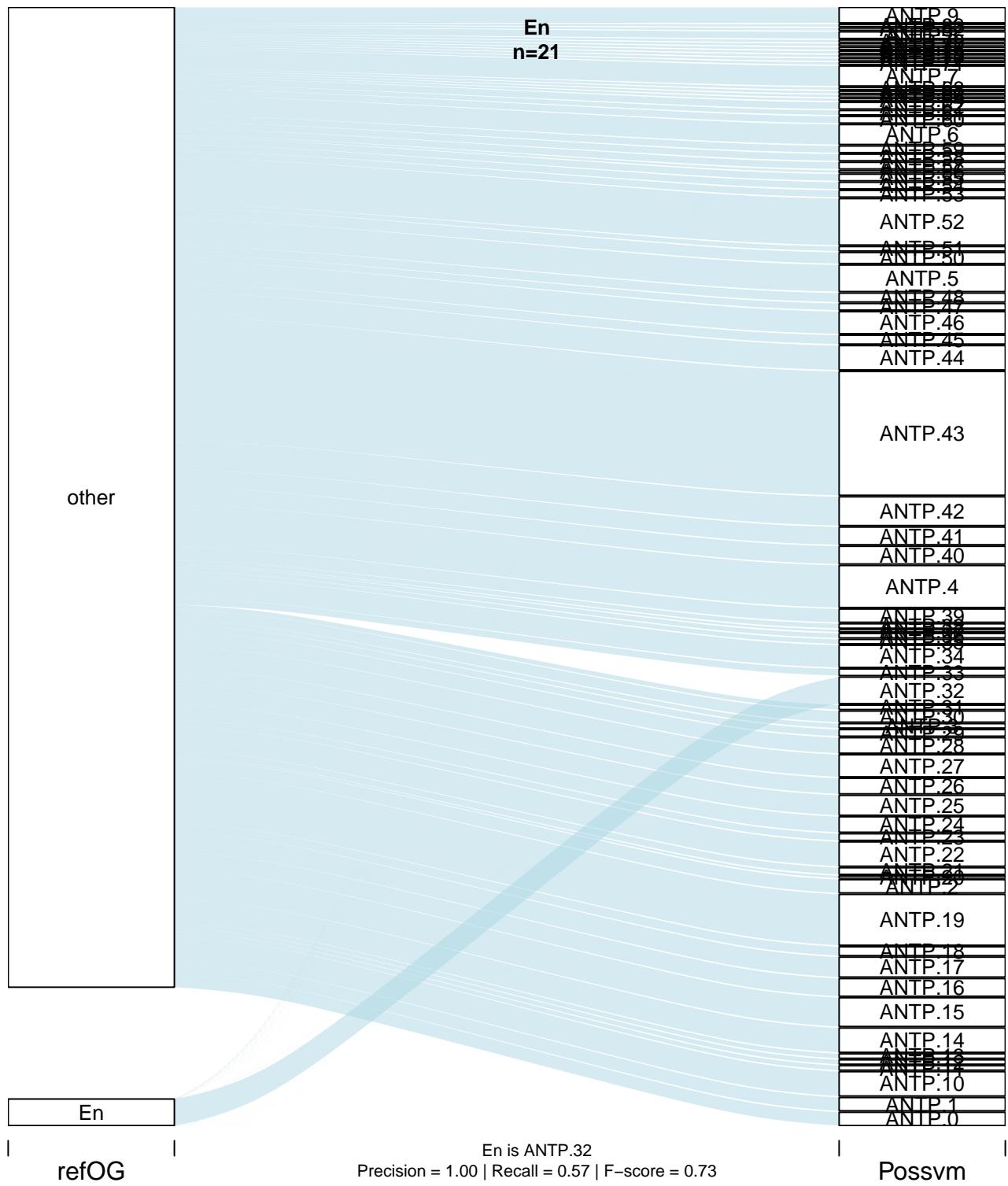
ANTP.4

ANTP.39
ANTP.38
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ANTP.20

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ANTP.17
ANTP.16
ANTP.15
ANTP.14
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ANTP.12
ANTP.10
ANTP.1
ANTP.0

Hox1 is ANTP.42
Precision = 1.00 | Recall = 0.52 | F-score = 0.68

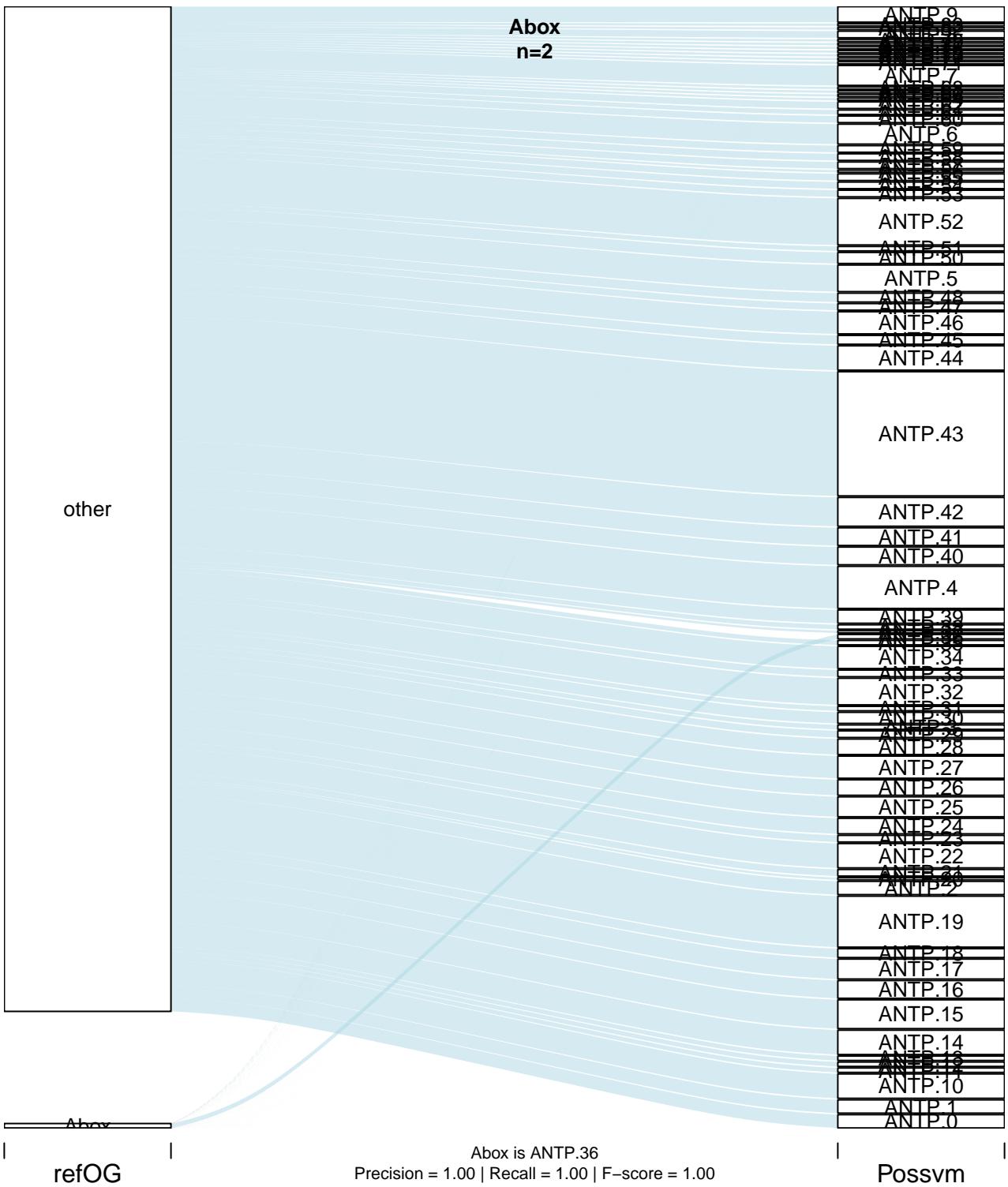
Possvm



En is ANTP.32

Precision = 1.00 | Recall = 0.57 | F-score = 0.73

Possvm



Emx
n=23

other

Emx

refOG

ANTP.9
ANTP.69
ANTP.68
ANTP.67
ANTP.66
ANTP.65
ANTP.64
ANTP.63
ANTP.62
ANTP.61
ANTP.60
ANTP.59
ANTP.58
ANTP.57
ANTP.56
ANTP.55
ANTP.54
ANTP.53
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ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40
ANTP.4

ANTP.39
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ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Emx is ANTP.33, ANTP.66, ANTP.67, ANTP.9
Precision = 0.83 | Recall = 0.43 | F-score = 0.57

Possvm

Nk2.2

n=16

other

Nk2.2

refOG

Possvm

Nk2.2 is ANTP.28
Precision = 1.00 | Recall = 0.44 | F-score = 0.61

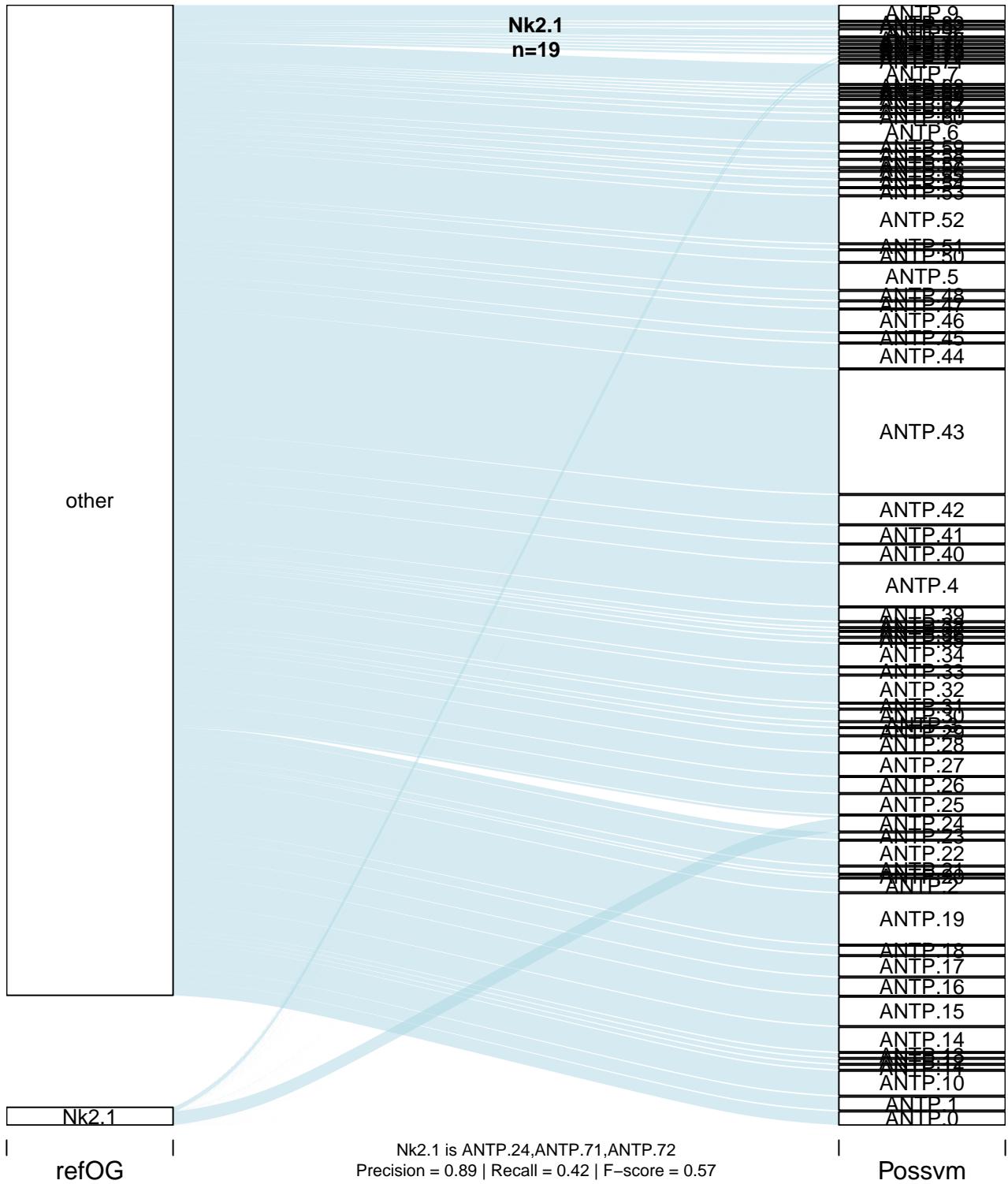
ANTP.9
ANTP.8
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ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.43

ANTP.42
ANTP.41
ANTP.40
ANTP.4

ANTP.39
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ANTP.18
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ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0



Nk4
n=25

other

Nk4

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
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ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

ANTP.39
ANTP.38
ANTP.37
ANTP.34
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ANTP.32
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ANTP.20

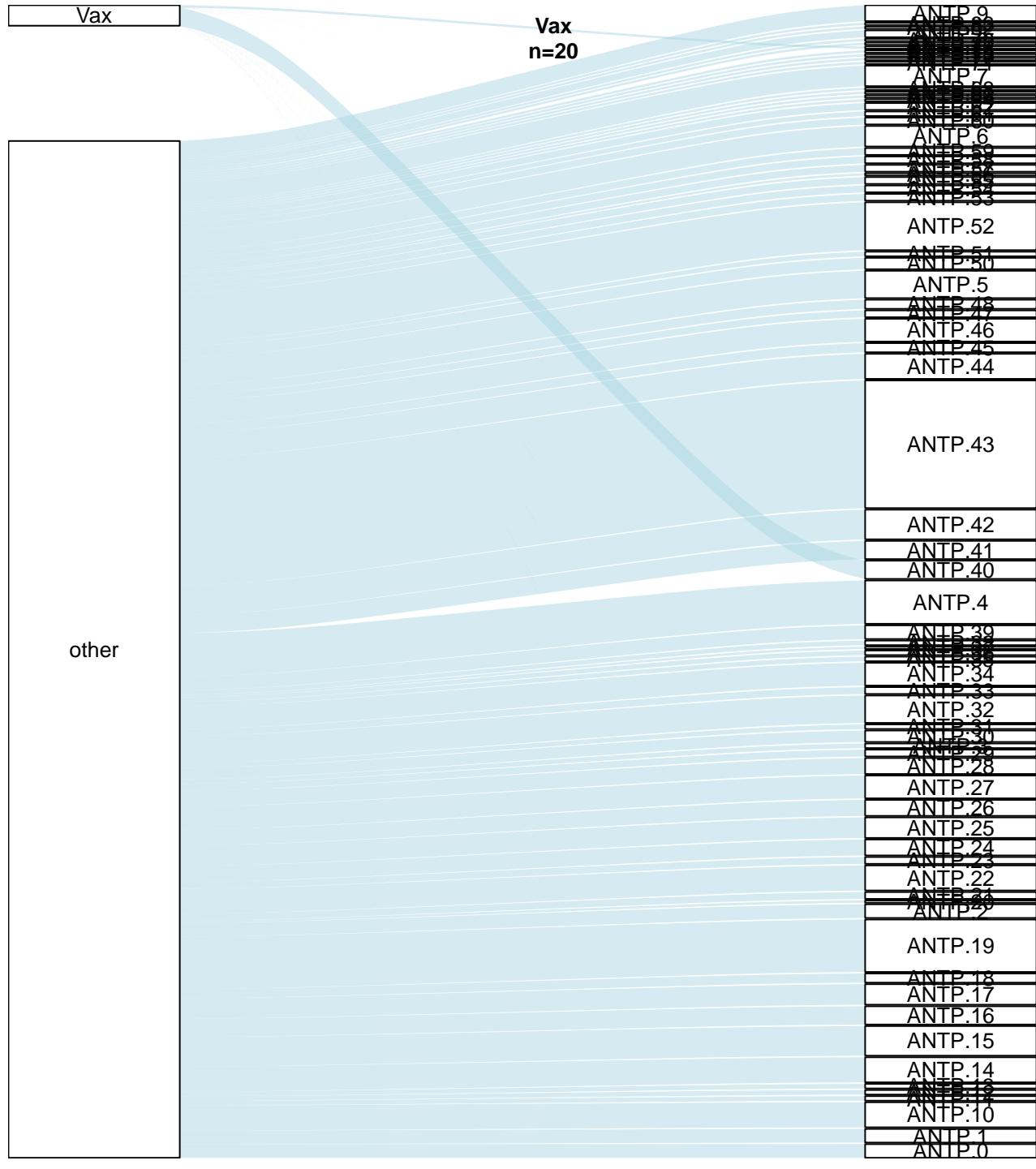
ANTP.19

ANTP.18
ANTP.17
ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10

ANTP.1
ANTP.0

Nk4 is ANTP.13,ANTP.22
Precision = 1.00 | Recall = 0.52 | F-score = 0.68

Possvm



Nk7
n=3

other

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

ANTP.39
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ANTP.21
ANTP.20

ANTP.19

ANTP.18
ANTP.17
ANTP.16
ANTP.15

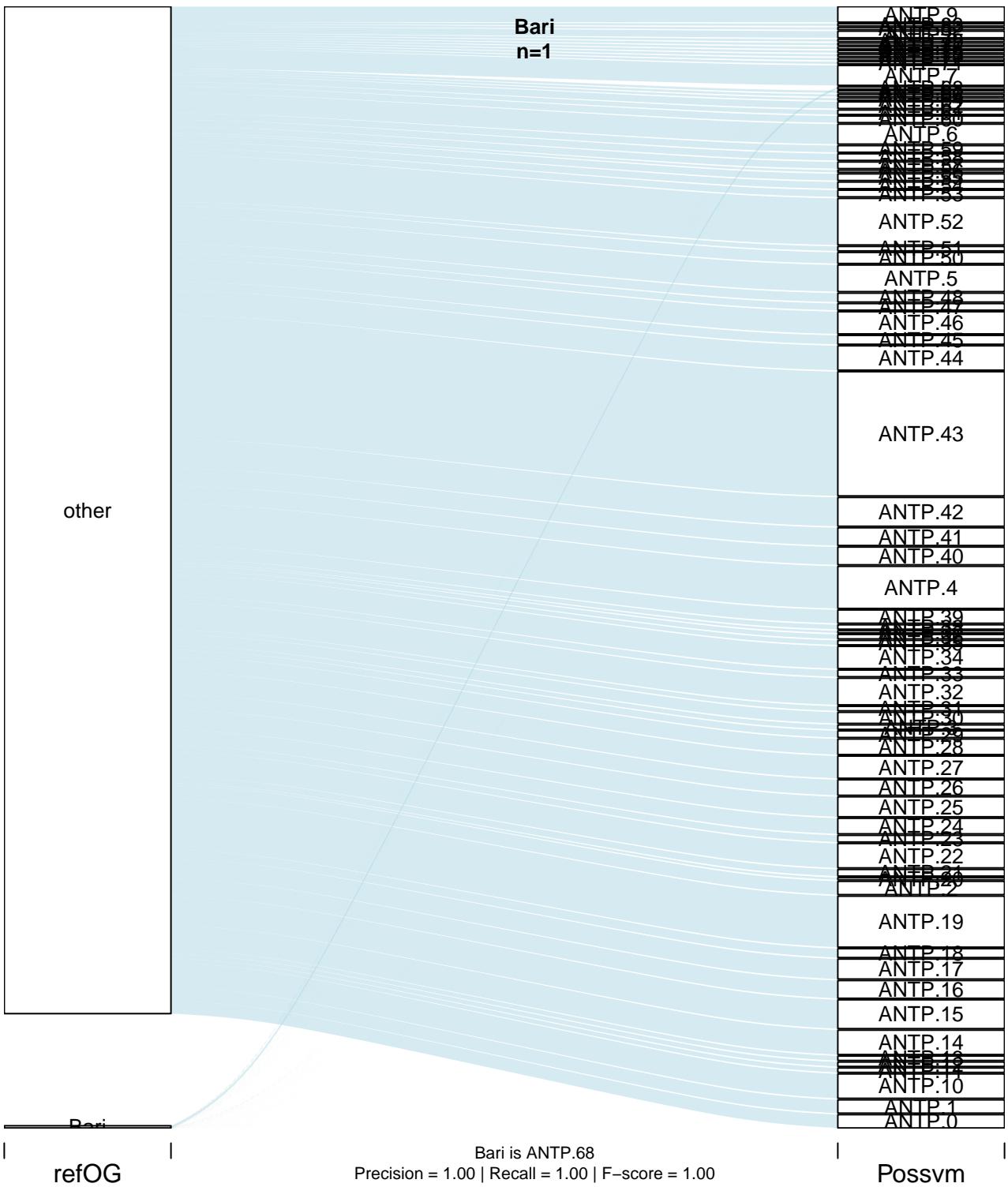
ANTP.14
ANTP.13
ANTP.12
ANTP.10

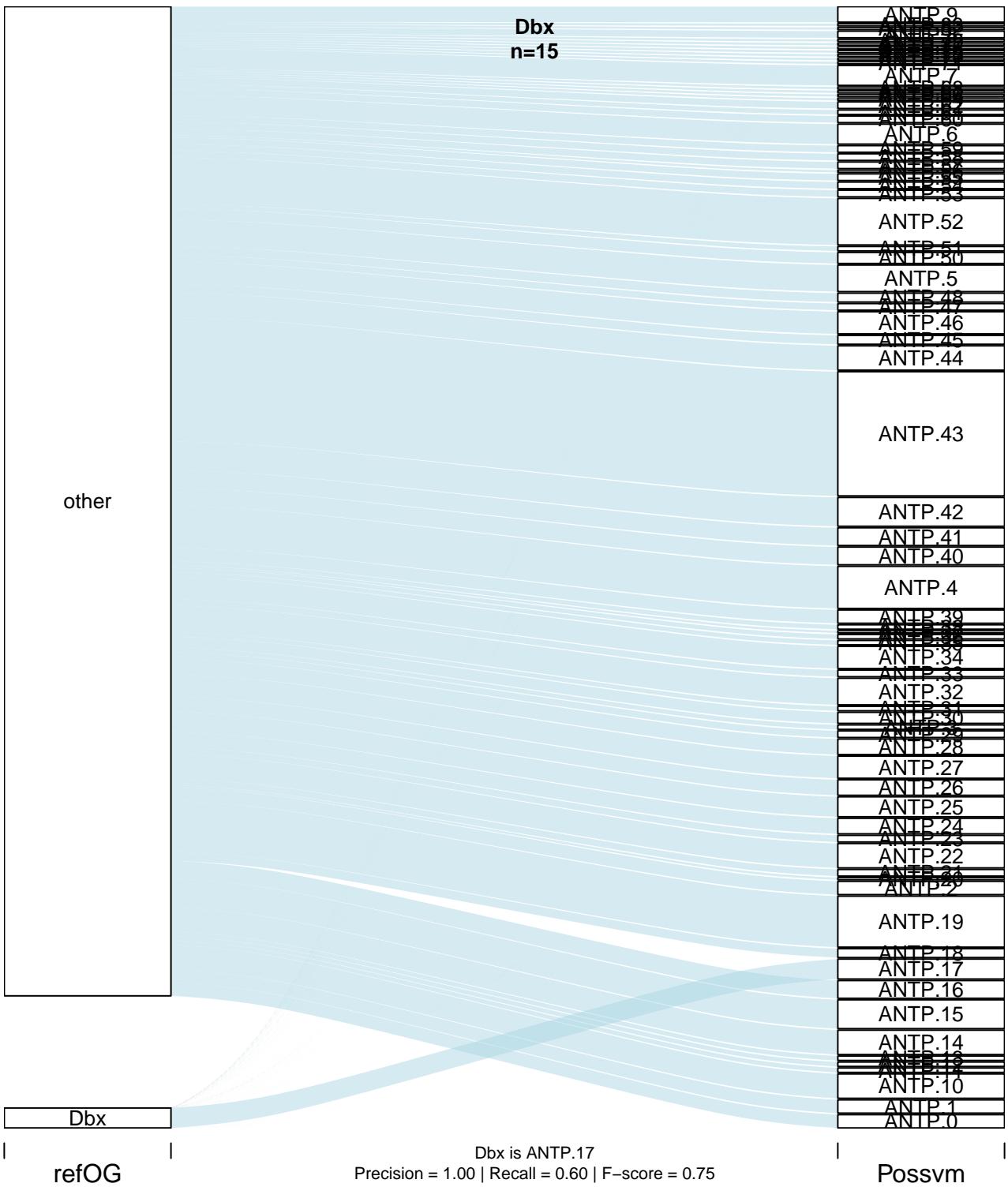
ANTP.1
ANTP.0

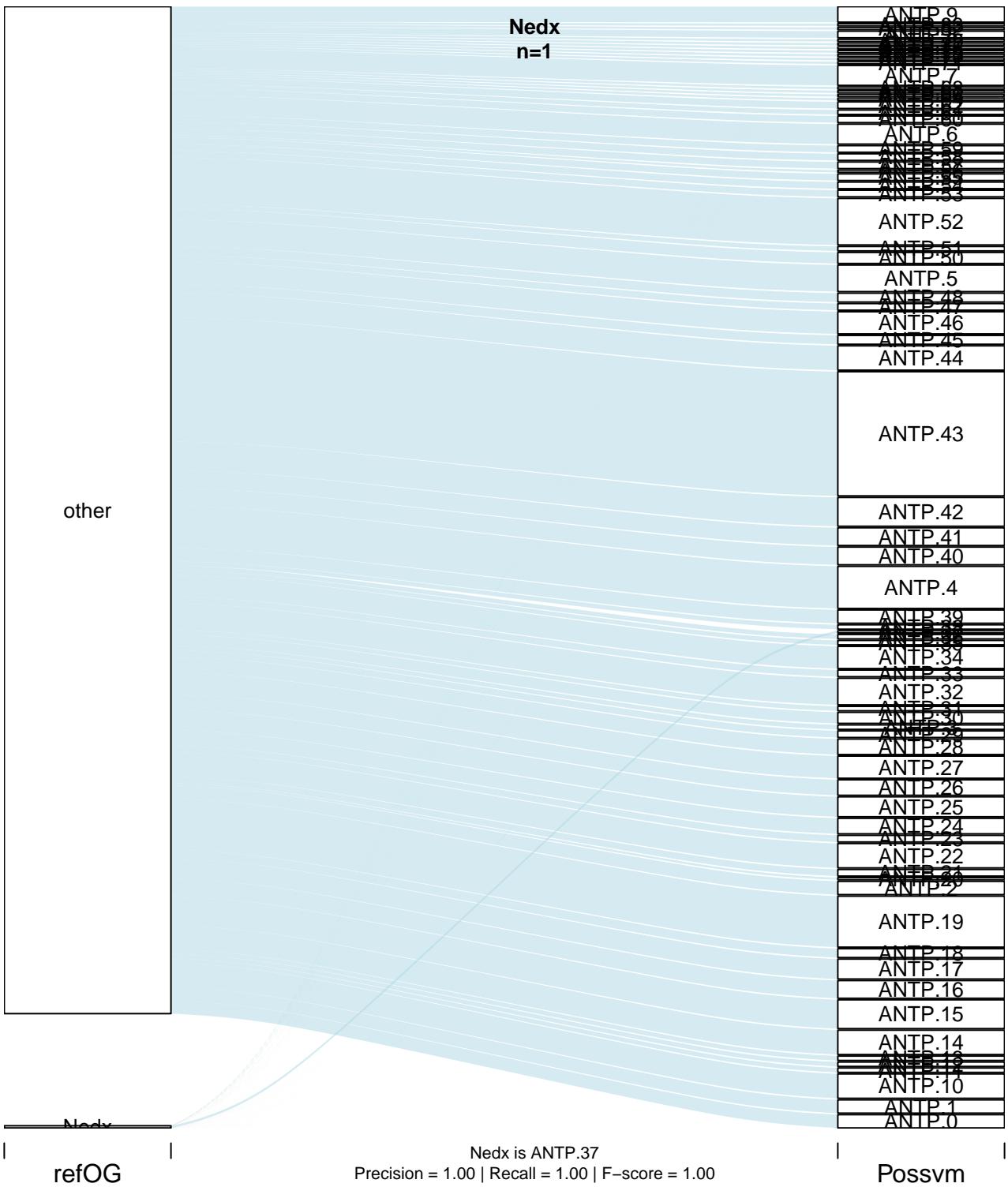
refOG

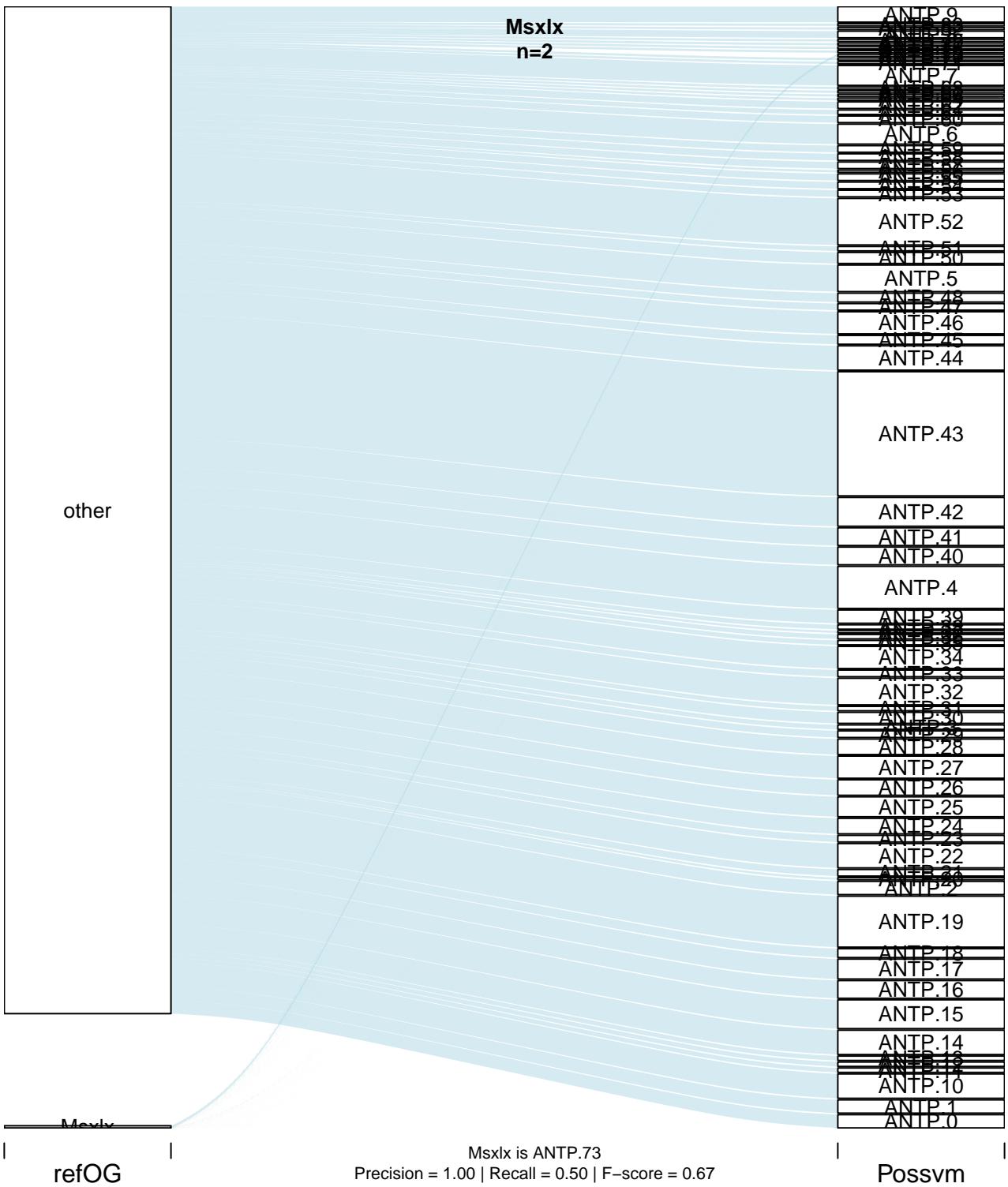
Nk7 is ANTP.11
Precision = 1.00 | Recall = 0.67 | F-score = 0.80

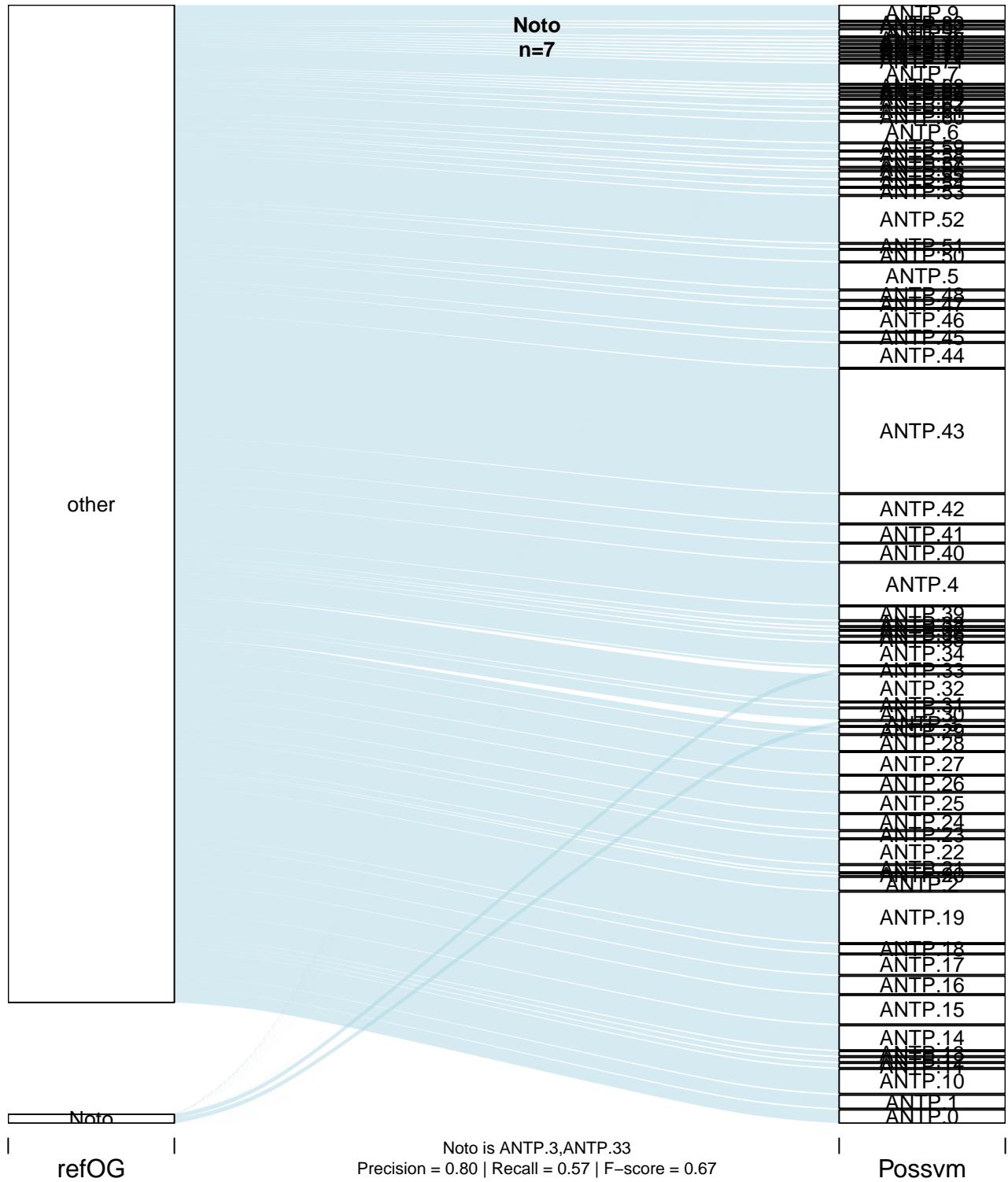
Possvm

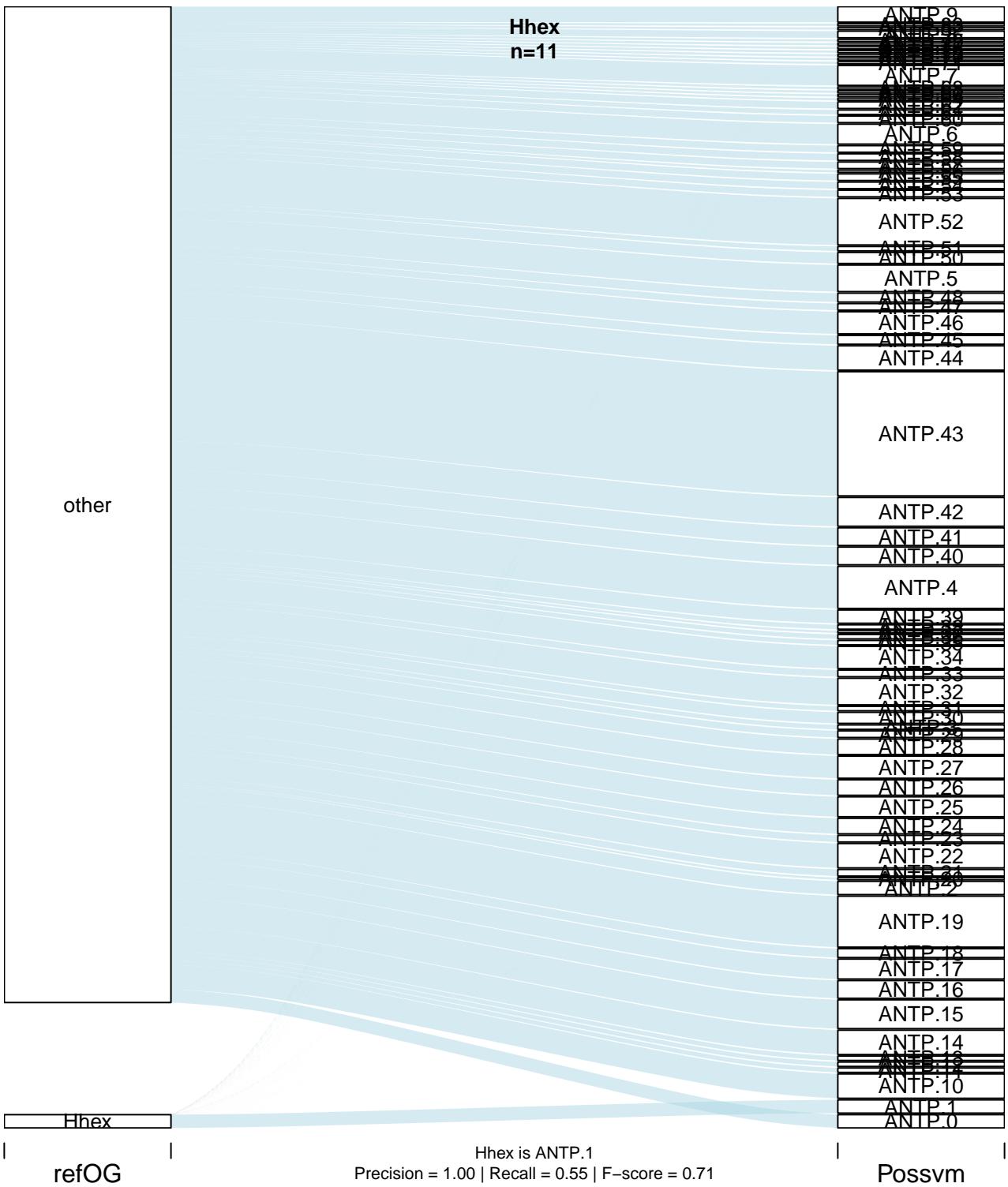












Nk6
n=26

other

Nk6

refOG

Nk6 is ANTP.14
Precision = 1.00 | Recall = 0.42 | F-score = 0.59

Possvm

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

Hox5
n=11

other

Hox5

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

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ANTP.19
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ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Hox5 is ANTP.43
Precision = 0.09 | Recall = 0.45 | F-score = 0.15

Possvm

Hox4
n=34

other

Hox4

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

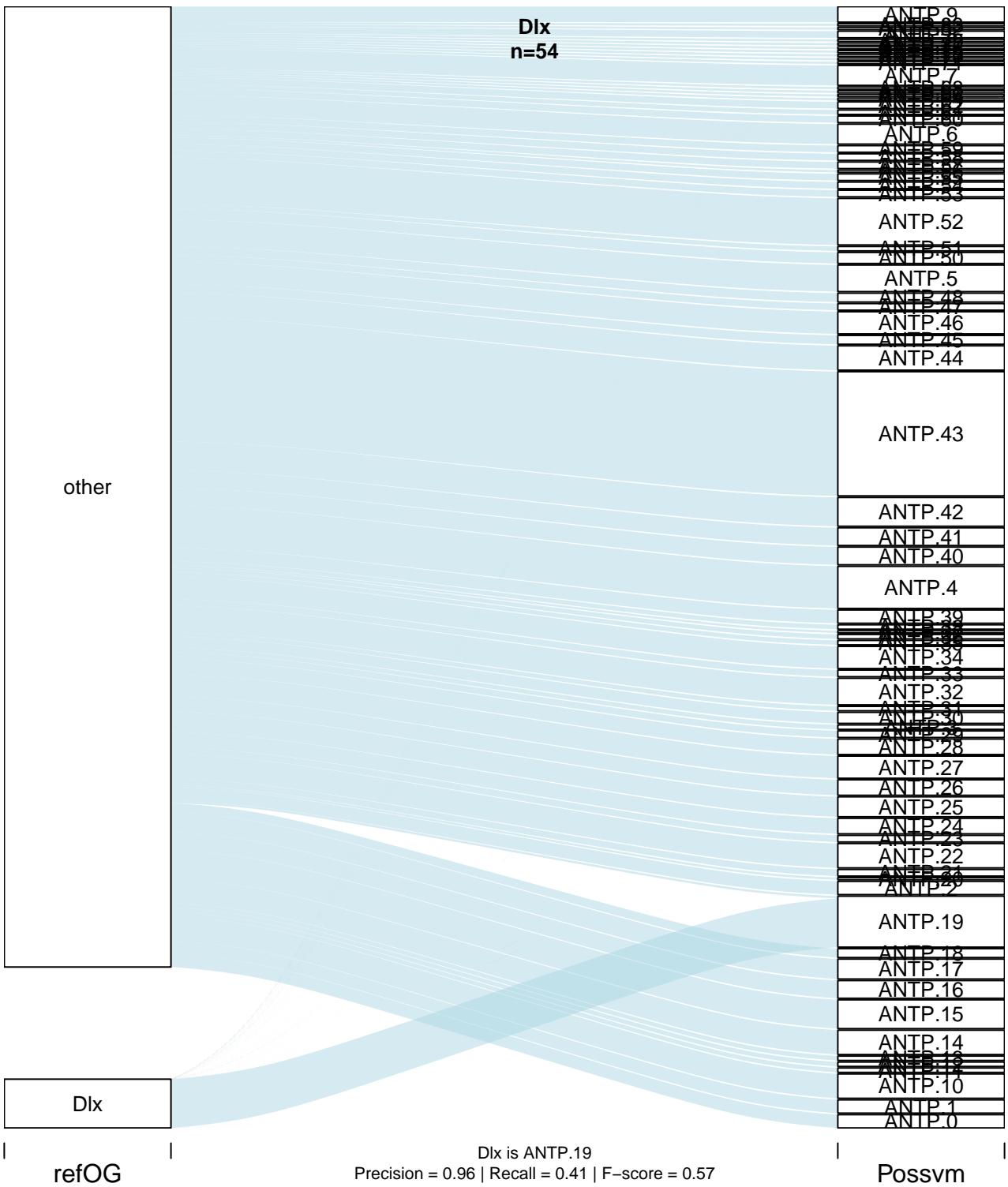
ANTP.4

ANTP.39
ANTP.38
ANTP.37
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ANTP.19
ANTP.18
ANTP.17
ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Hox4 is ANTP.43
Precision = 0.23 | Recall = 0.38 | F-score = 0.29

Possvm



Msx
n=26

other

Msx

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0
ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44
ANTP.43
ANTP.42
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ANTP.18
ANTP.17
ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Msx is ANTP.15
Precision = 1.00 | Recall = 0.50 | F-score = 0.67

Possvm

Evx
n=23

other

Evx

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

ANTP.39
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ANTP.37
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ANTP.20

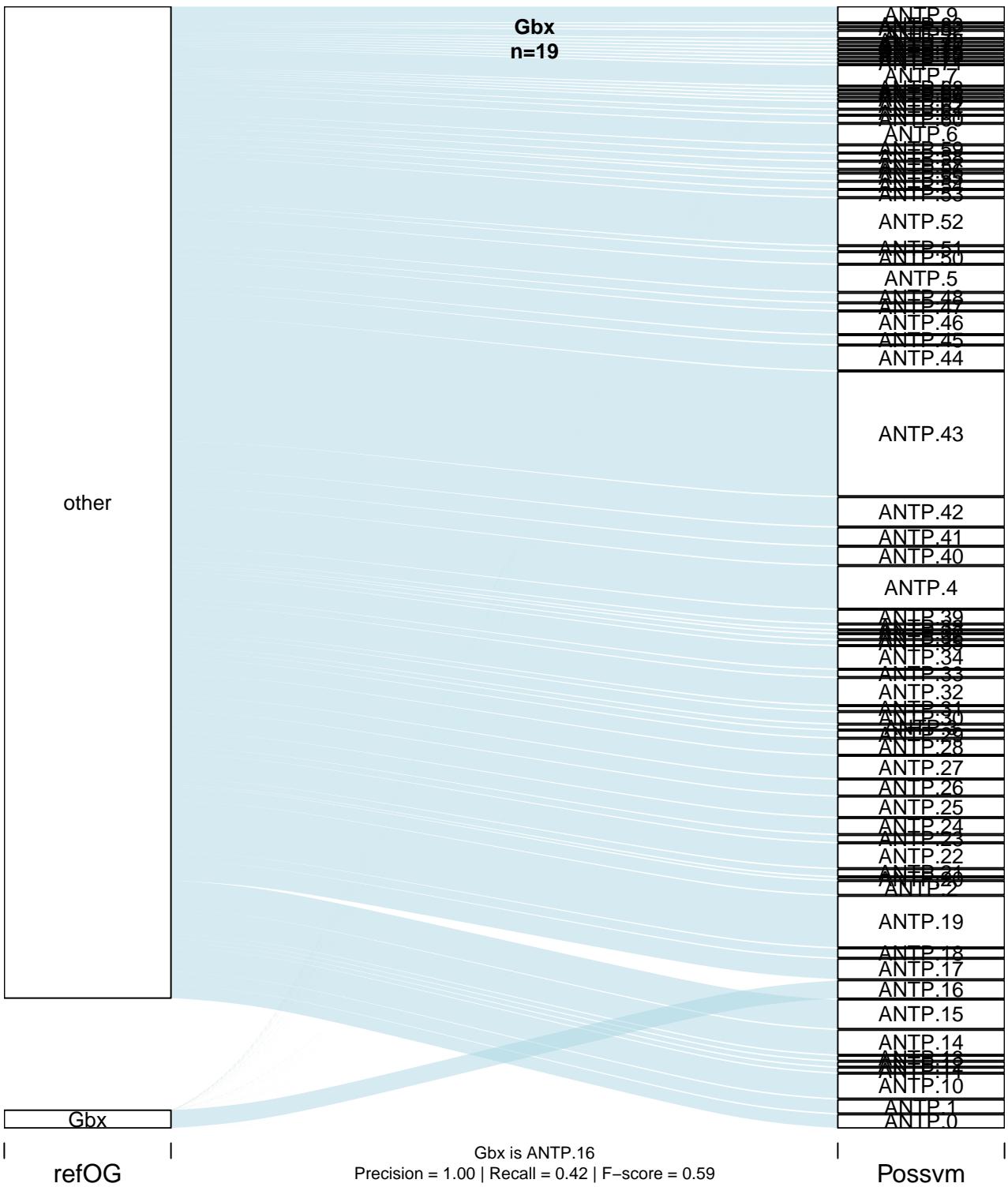
ANTP.19

ANTP.18
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ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10

ANTP.1
ANTP.0

Evx is ANTP.34
Precision = 1.00 | Recall = 0.43 | F-score = 0.61

Possvm



chr02.1

n=22

other

chr02.1

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
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ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

ANTP.39
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ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

chr02.1 is ANTP.43
Precision = 0.12 | Recall = 0.32 | F-score = 0.18

Possvm

chr03.1

n=8

other

ANTP.9

ANTP.8

ANTP.7

ANTP.6

ANTP.5

ANTP.4

ANTP.3

ANTP.2

ANTP.1

ANTP.0

ANTP.52

ANTP.51

ANTP.50

ANTP.5

ANTP.48

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ANTP.13

ANTP.10

ANTP.1

ANTP.0

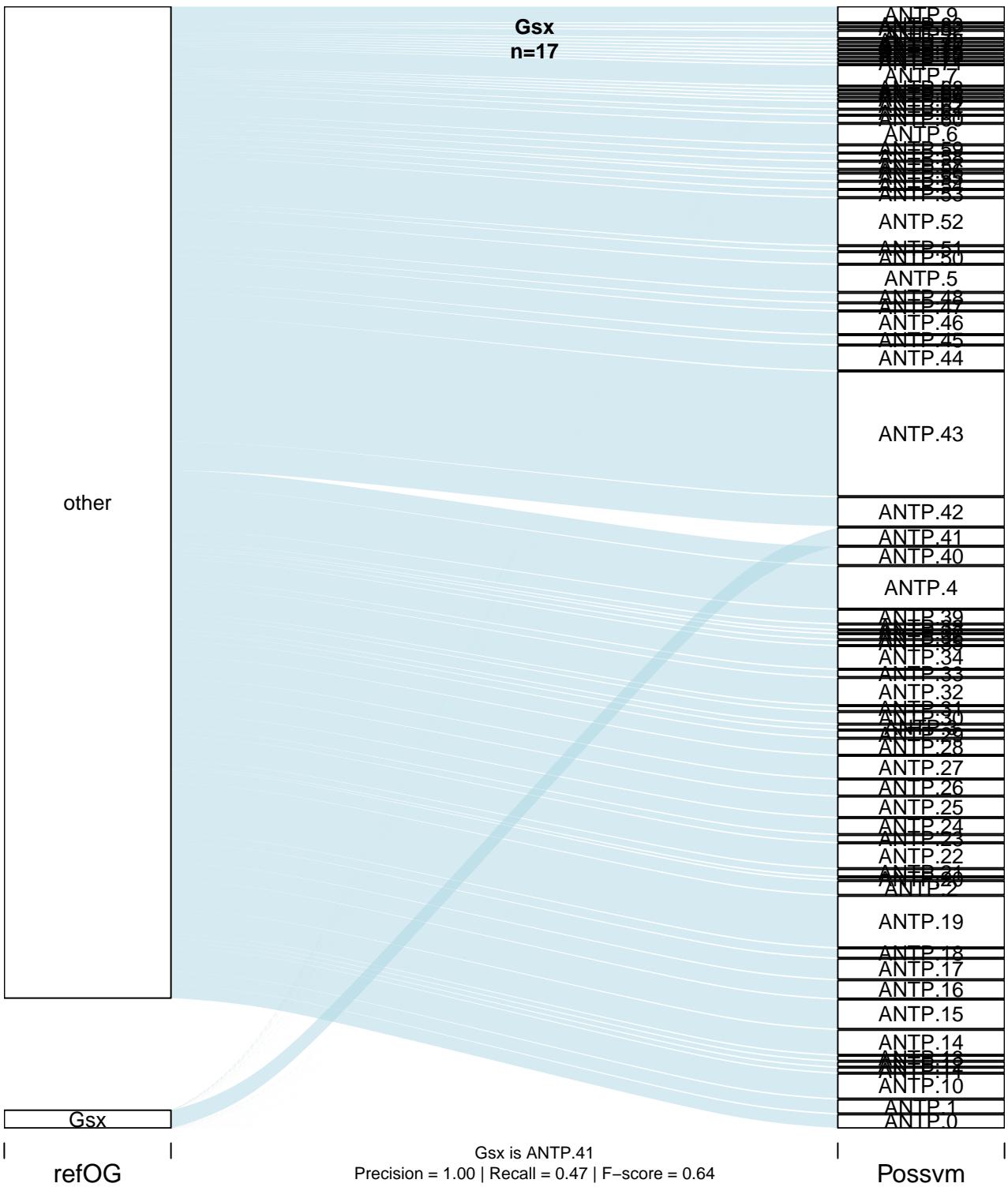
chr03.1

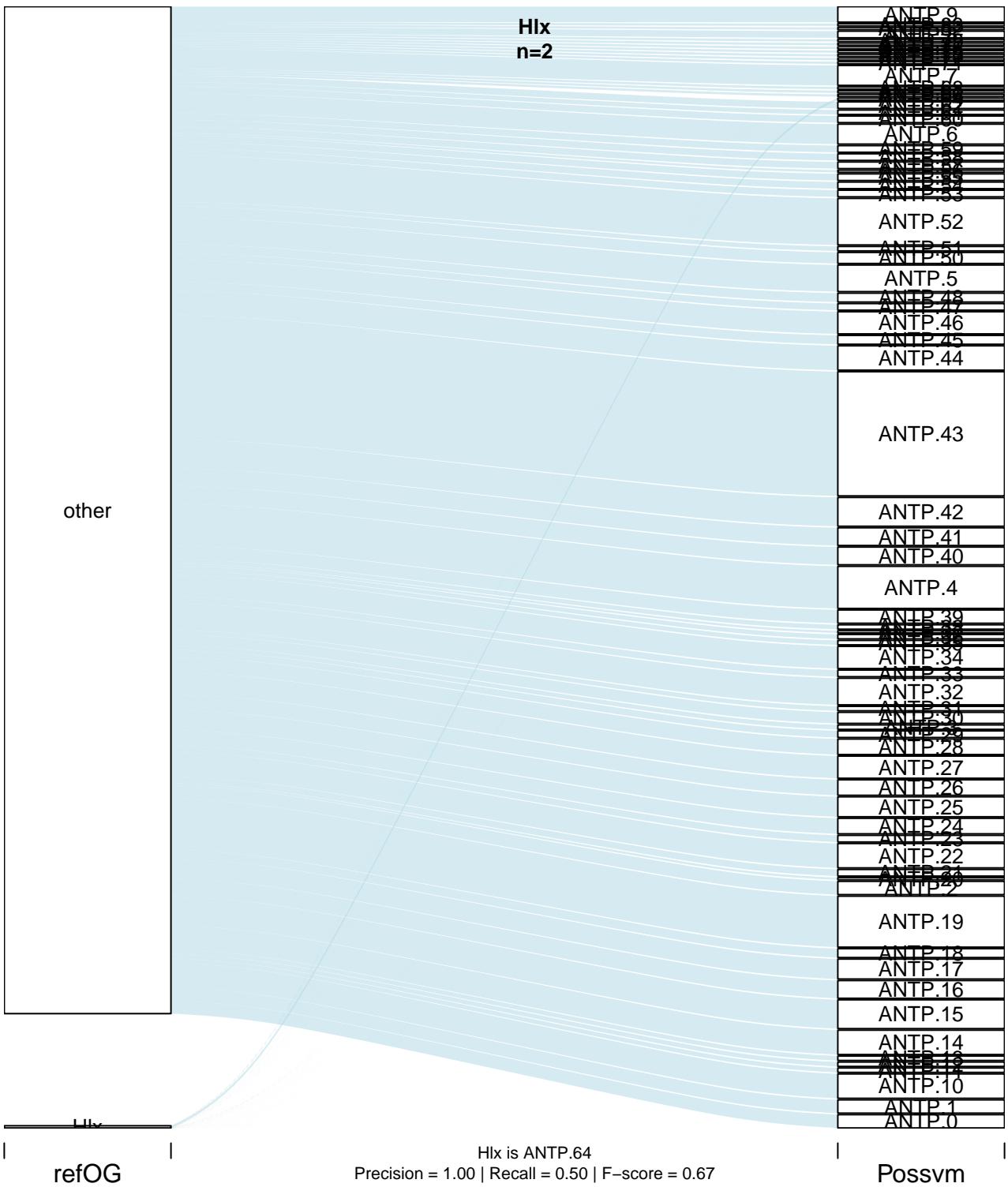
chr03.1 is ANTP.8

Precision = 1.00 | Recall = 0.38 | F-score = 0.55

refOG

Possvm





Nk5/Hmx

n=32

other

Nk5/Hmx

refOG

ANTP.9

ANTP.8

ANTP.7

ANTP.6

ANTP.5

ANTP.4

ANTP.3

ANTP.2

ANTP.1

ANTP.0

ANTP.52

ANTP.51

ANTP.5

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ANTP.20

ANTP.19

ANTP.18

ANTP.17

ANTP.16

ANTP.15

ANTP.14

ANTP.13

ANTP.10

ANTP.1

ANTP.0

Nk5/Hmx is ANTP.4

Precision = 0.89 | Recall = 0.53 | F-score = 0.67

Possvm

Hox2
n=21

other

Hox2

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

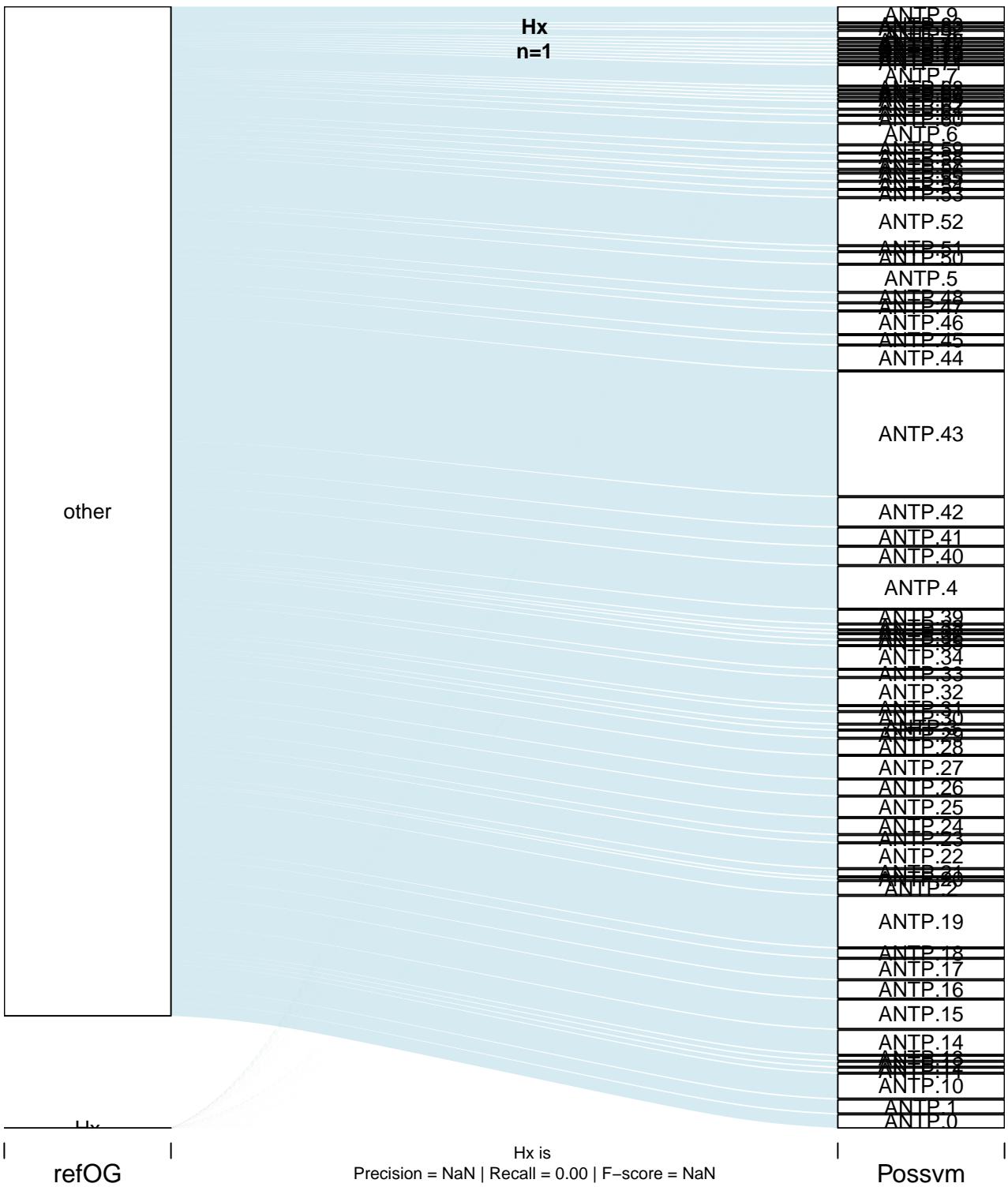
ANTP.39
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ANTP.21
ANTP.20

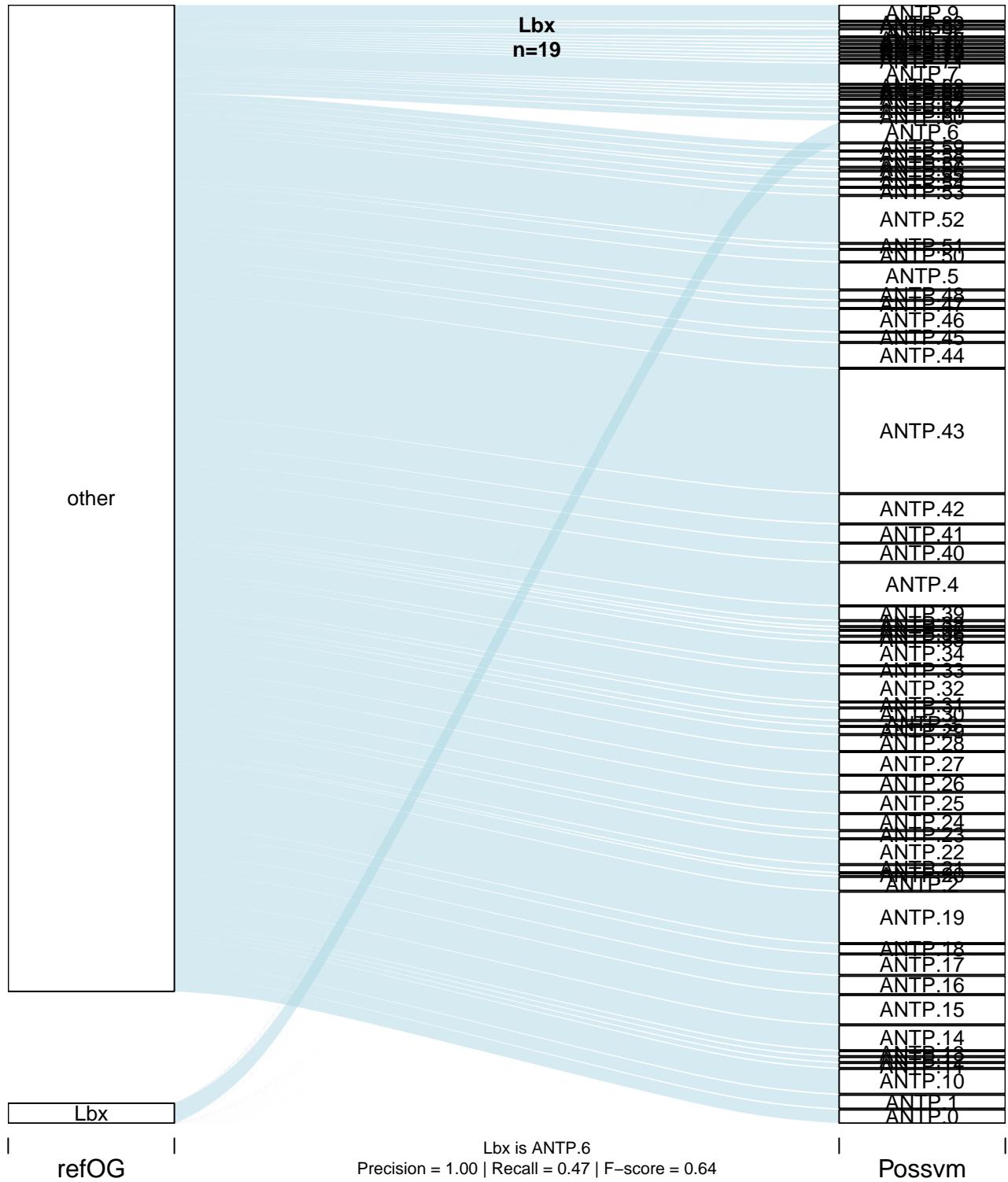
ANTP.19

ANTP.18
ANTP.17
ANTP.16
ANTP.15
ANTP.14
ANTP.13
ANTP.12
ANTP.10
ANTP.1
ANTP.0

Hox2 is ANTP.47, ANTP.48
Precision = 1.00 | Recall = 0.33 | F-score = 0.50

Possvm





Nanog
n=5

other

Nanog

refOG

ANTP.9
ANTP.8
ANTP.7
ANTP.6
ANTP.5
ANTP.4
ANTP.3
ANTP.2
ANTP.1
ANTP.0

ANTP.52
ANTP.51
ANTP.50
ANTP.5
ANTP.48
ANTP.46
ANTP.45
ANTP.44

ANTP.43

ANTP.42
ANTP.41
ANTP.40

ANTP.4

ANTP.39
ANTP.38
ANTP.37
ANTP.34
ANTP.33
ANTP.32
ANTP.30
ANTP.29
ANTP.28
ANTP.27
ANTP.26
ANTP.25
ANTP.24
ANTP.23
ANTP.22
ANTP.21
ANTP.20

ANTP.19

ANTP.18

ANTP.17

ANTP.16

ANTP.15

ANTP.14

ANTP.13

ANTP.10

ANTP.1

ANTP.0

Nanog is ANTP.18
Precision = 0.75 | Recall = 0.60 | F-score = 0.67

Possvm

