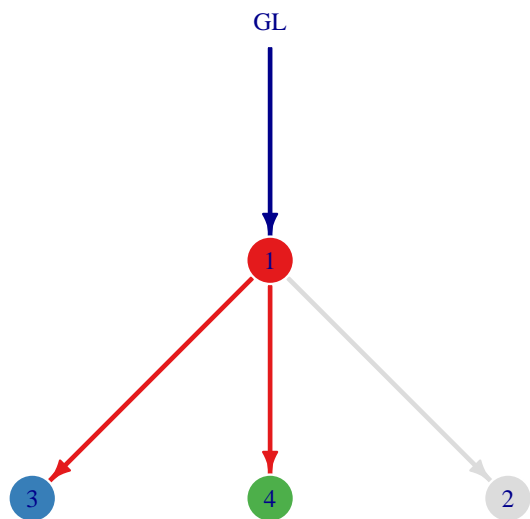


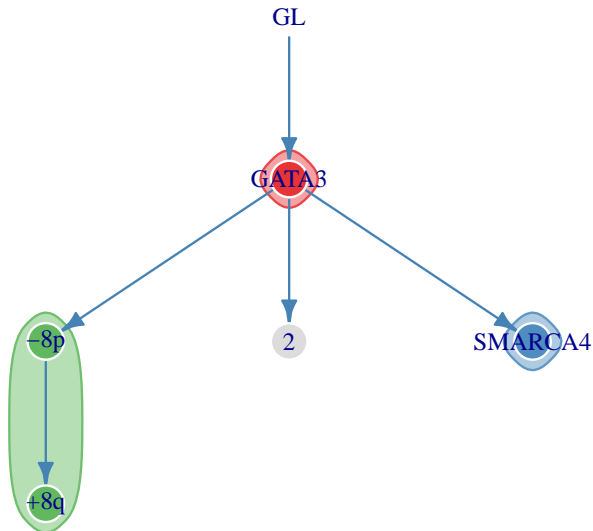
Patient: PD9193

PD9193 : evolutionary trajectories

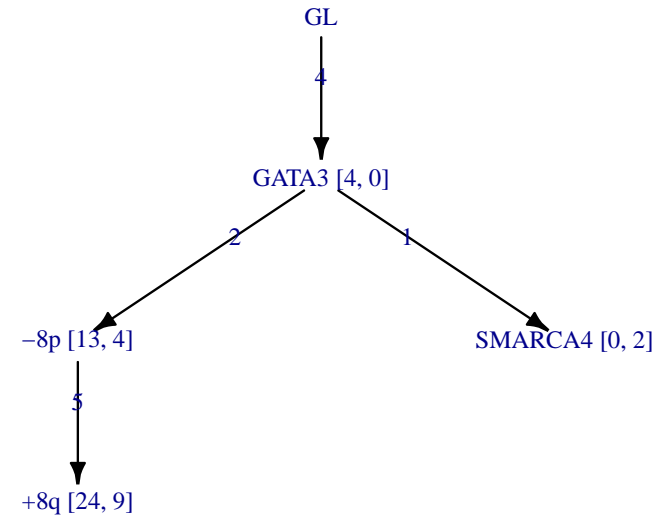
PD9193 : information transfer



Ranked 2/3



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9694

PD9694 : evolutionary trajectories

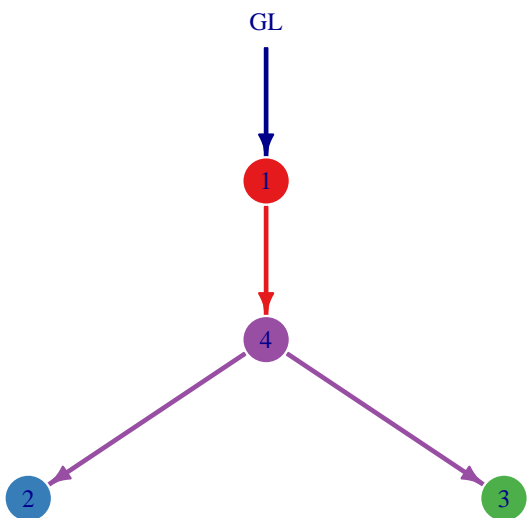
PD9694 : information transfer

Score

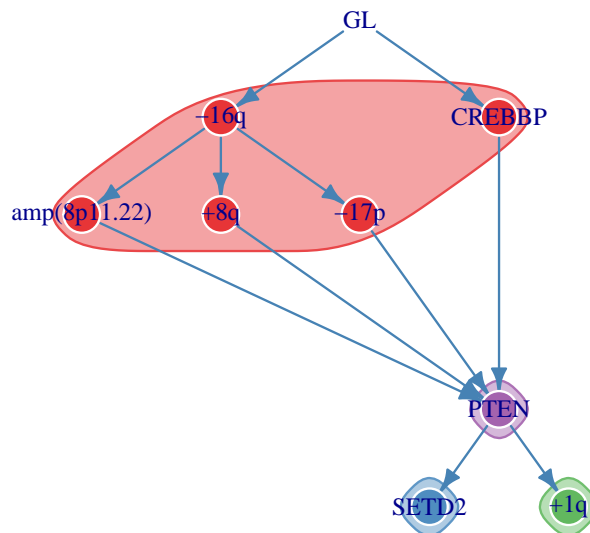
• $f = 1e-03$
• $g = 0.941$

Violations

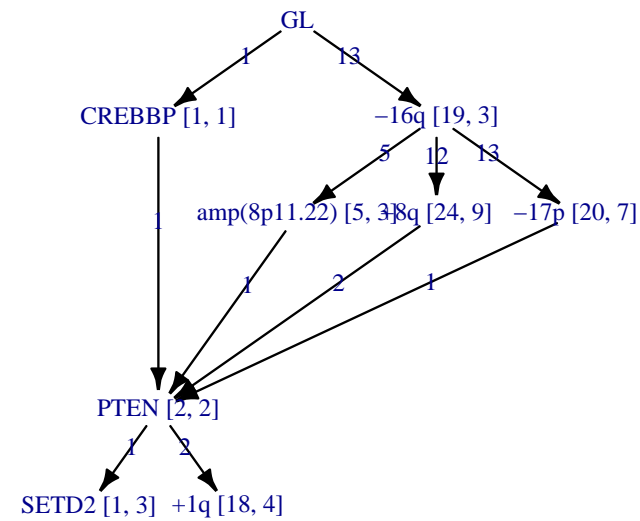
• 4 PD9694e



Ranked 1/4



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9768

PD9768 : evolutionary trajectories

PD9768 : information transfer

Score

- $f = 6e-03$
- $g = 1$

Violations

- None

GL



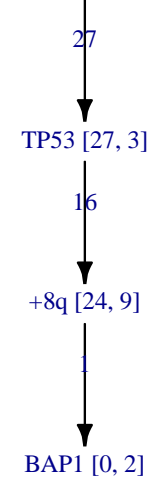
Ranked 1/6

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9769

PD9769 : evolutionary trajectories

PD9769 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

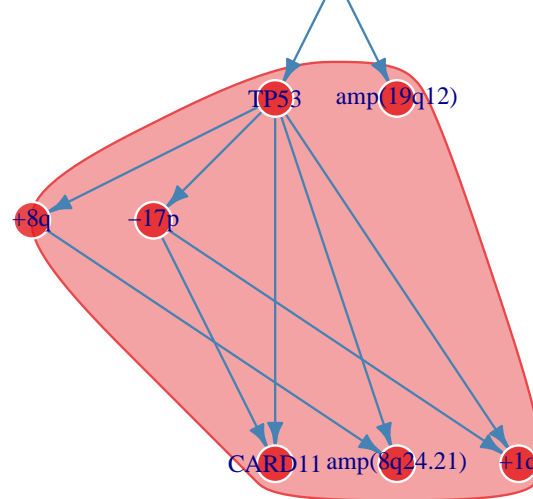
GL



1

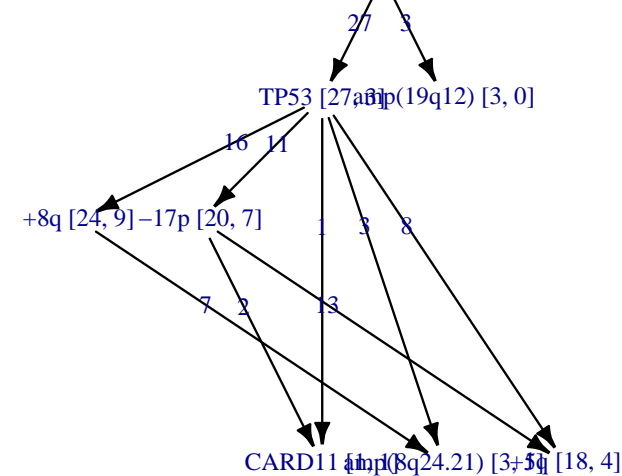
Ranked 1/1

GL



Exploded trajectories

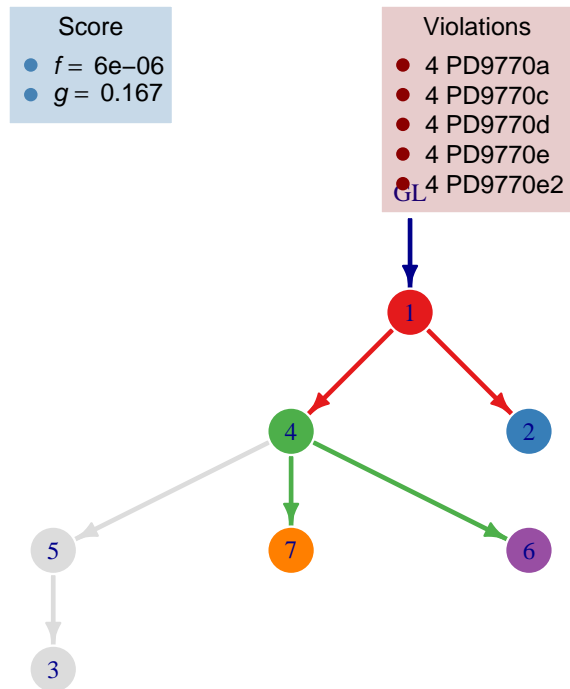
GL



[n m]: n clonal, m subclonal (driver)

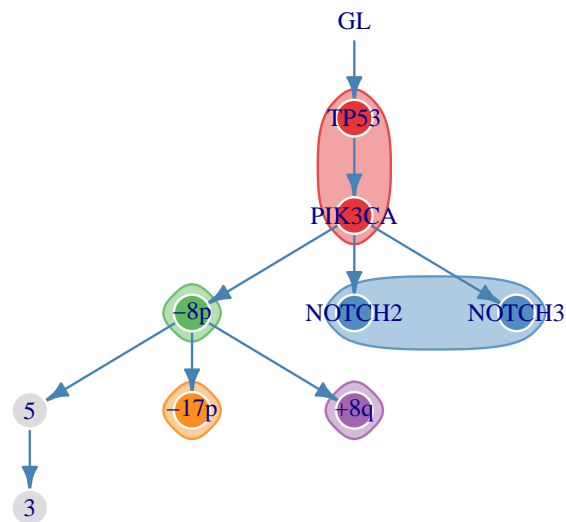
... : k patients

Patient: PD9770



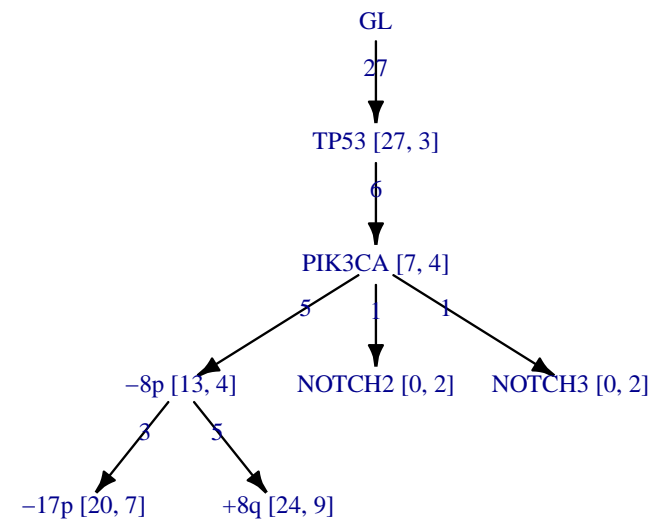
Ranked 1/64

PD9770 : evolutionary trajectories



Exploded trajectories

PD9770 : information transfer



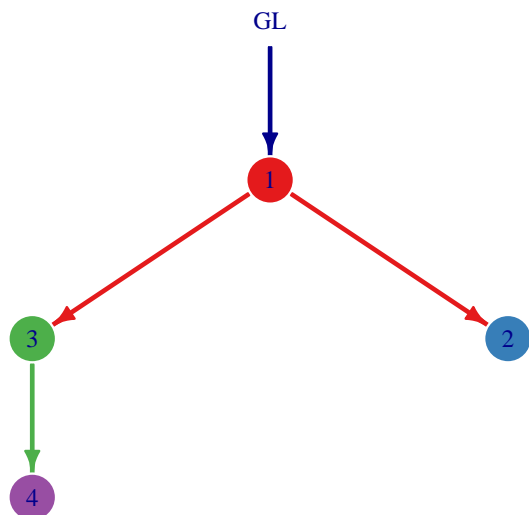
[n m]: n clonal, m subclonal (driver)

... : k patients

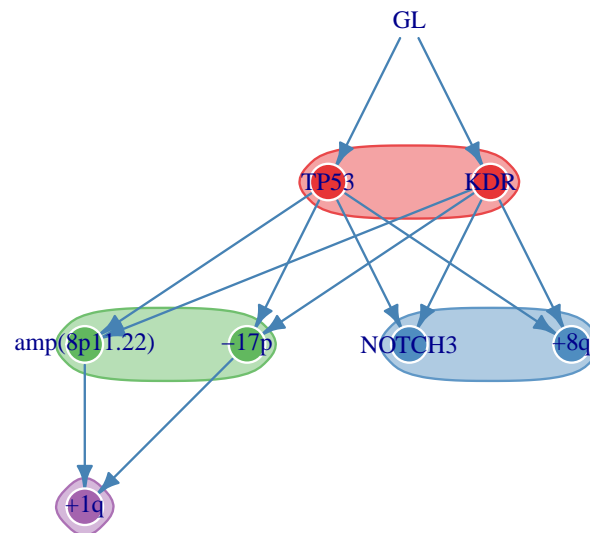
Patient: PD9771

PD9771 : evolutionary trajectories

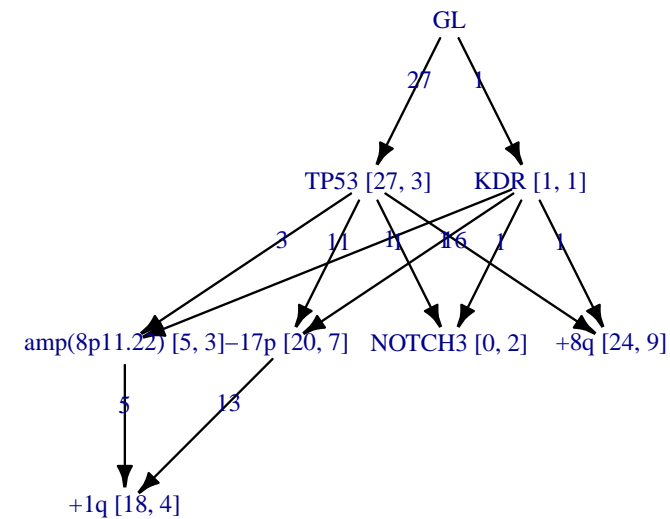
PD9771 : information transfer



Ranked 2/4



Exploded trajectories



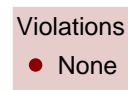
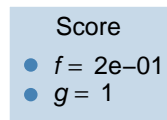
[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9772

PD9772 : evolutionary trajectories

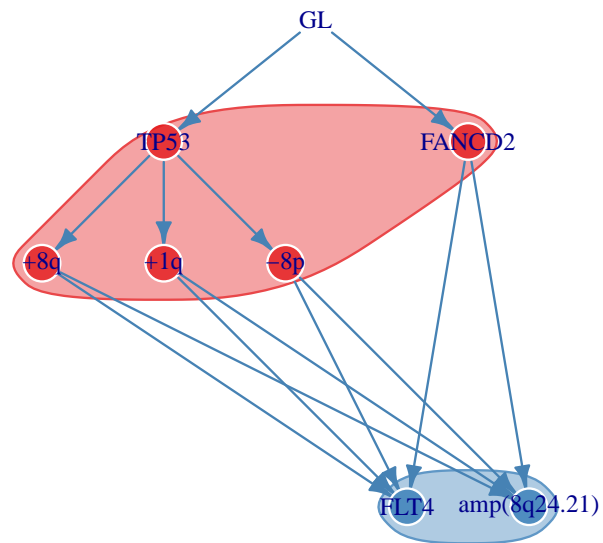
PD9772 : information transfer



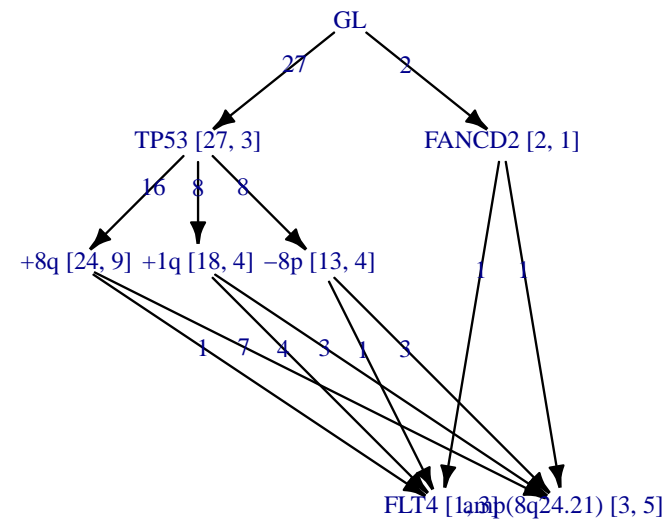
GL



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9773

PD9773 : evolutionary trajectories

PD9773 : information transfer

Score

Violations

• $f = 8e-02$
• $g = 1$

• None

GL

1

2

Ranked 1/1

GL

TP53

BPTF

MLL

ARID1B

Exploded trajectories

GL

TP53 [27, 3]

BPTF [1, 1]

MLL [1, 1]

ARID1B [3, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9774

PD9774 : evolutionary trajectories

PD9774 : information transfer

Score

• $f = 1e+00$
• $g = 1$

Violations

• None

GL



1

Ranked 1/1

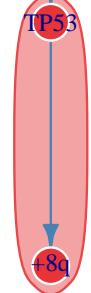
GL



TP53



+8q



Exploded trajectories

GL



TP53 [27, 3]



+8q [24, 9]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9775

PD9775 : evolutionary trajectories

PD9775 : information transfer

Score

- $f = 1e+00$
- $g = 1$

Violations

- None

GL



1

Ranked 1/1

GL



TP53

-17p

Exploded trajectories

GL



TP53 [27, 3]

-17p [20, 7]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9776

PD9776 : evolutionary trajectories

PD9776 : information transfer

Score

Violations

● $f = 2e-01$
● $g = 1$

● None

GL

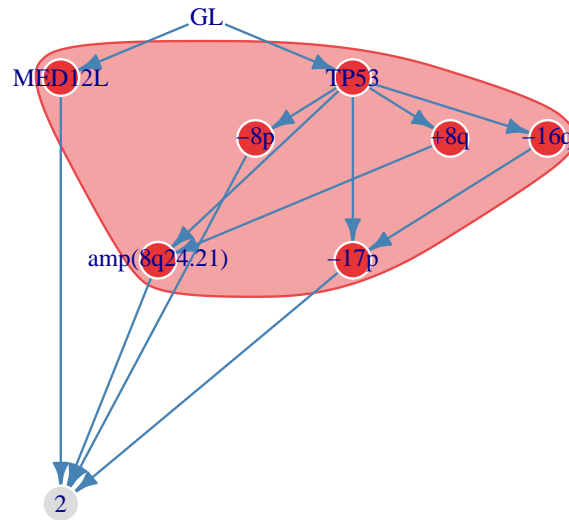


1

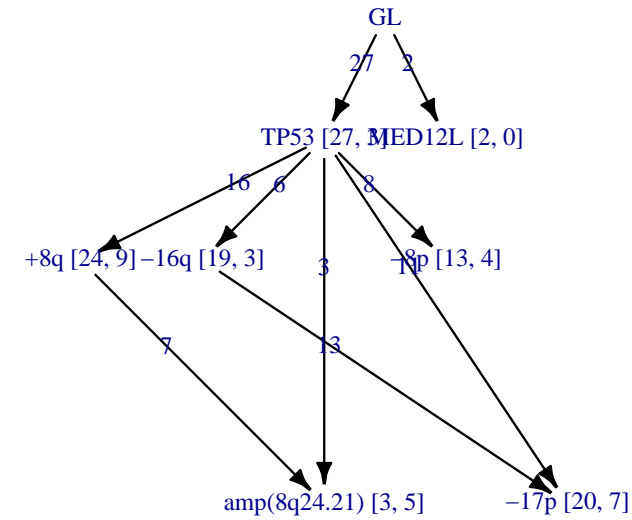


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9777

PD9777 : evolutionary trajectories

PD9777 : information transfer

Score
● $f = 3e-02$
● $g = 1$

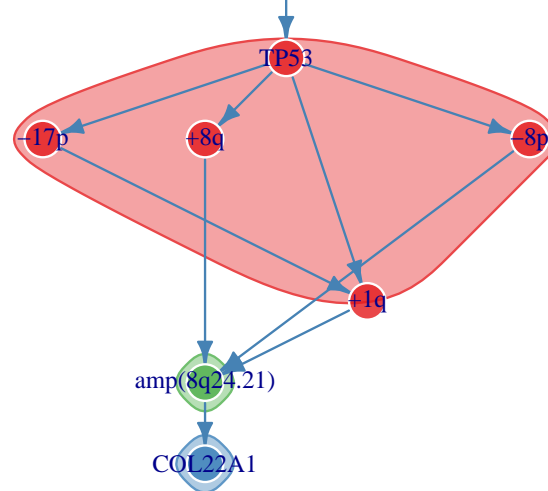
Violations
● None

GL



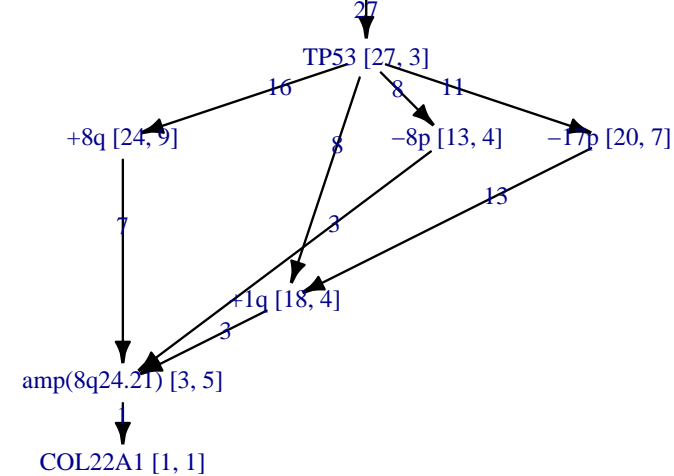
Ranked 1/2

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9849

PD9849 : evolutionary trajectories

PD9849 : information transfer

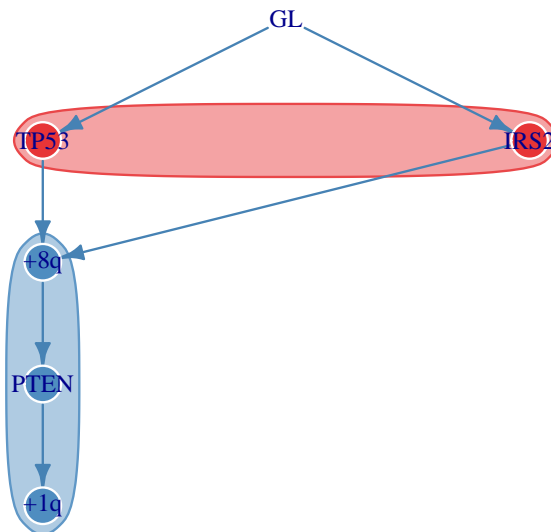
Score
● $f = 2e-01$
● $g = 1$

Violations
● None

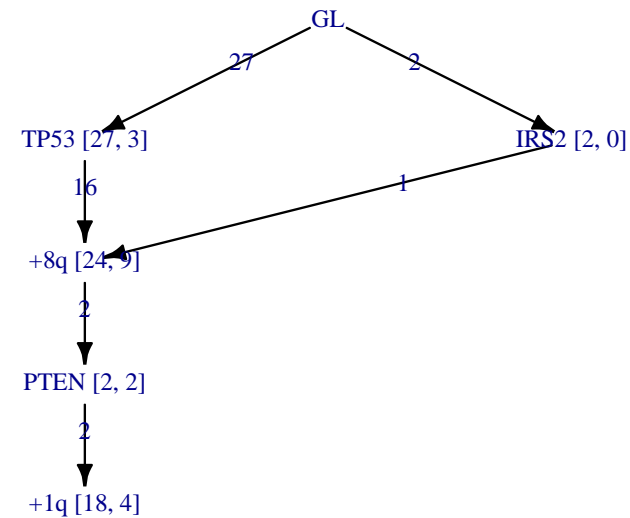
GL



Ranked 1/1



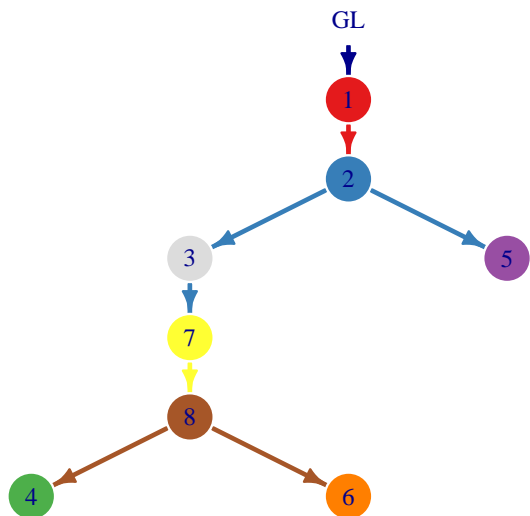
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

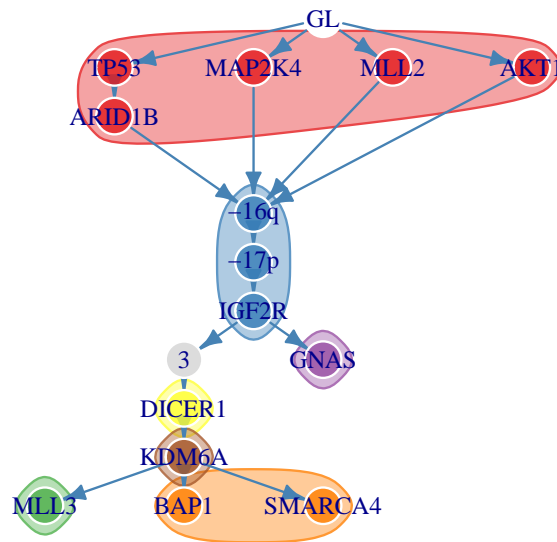
... : k patients

Patient: PD9850



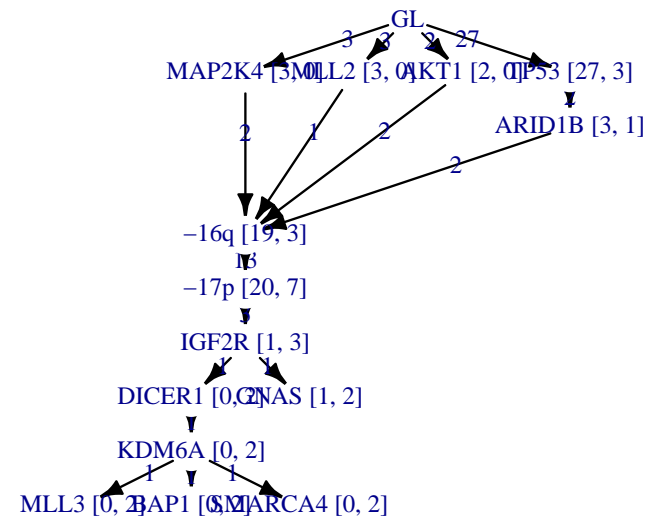
Ranked 5/200

PD9850 : evolutionary trajectories



Exploded trajectories

PD9850 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9851

PD9851 : evolutionary trajectories

PD9851 : information transfer

Score

• $f = 1e-02$

• $g = 0.5$

Violations

• 1 PD9851a

• 1 PD9851c

• 1 PD9851h

• 1 PD9851i

GL

1

3

2

Ranked 2/2

GL

-16q

-17p

amp(8p11.22)

+8q

Exploded trajectories

GL

13

-16q [19, 3]

13

5

12

-17p [20, 7]

amp(8p11.22) [5, 3]

+8q [24, 9]

[n m]: n clonal, m subclonal (driver)

... : k patients

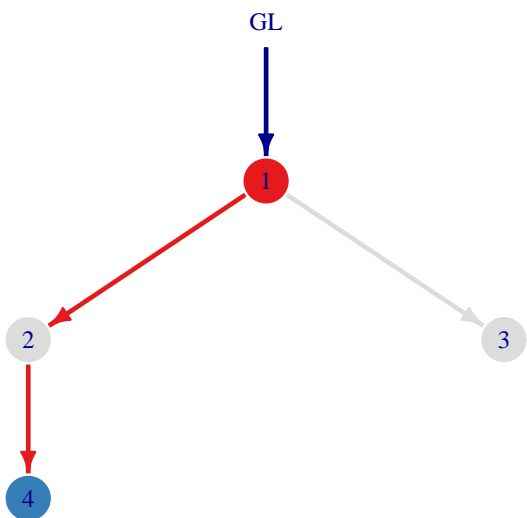
Patient: PD9852

Score

• $f = 1e-04$
• $g = 0.857$

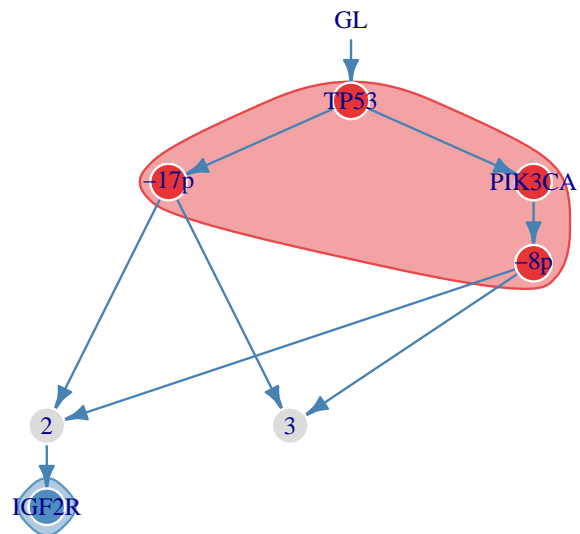
Violations

• 2 PD9852g



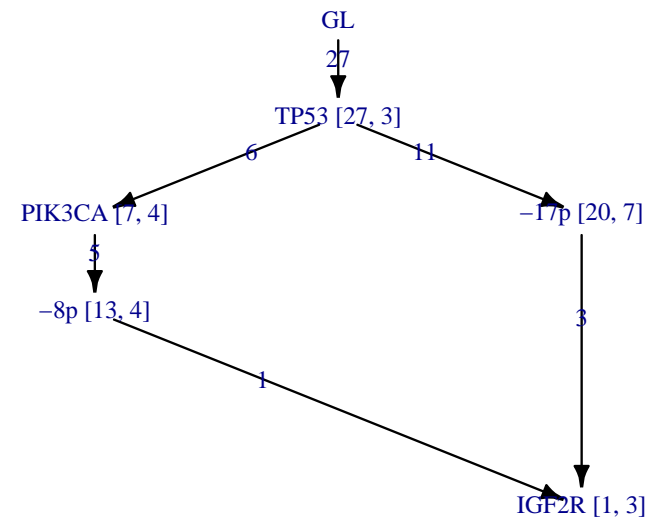
Ranked 1/5

PD9852 : evolutionary trajectories



Exploded trajectories

PD9852 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9853

PD9853 : evolutionary trajectories

PD9853 : information transfer

Score

• $f = 1e-02$
• $g = 1$

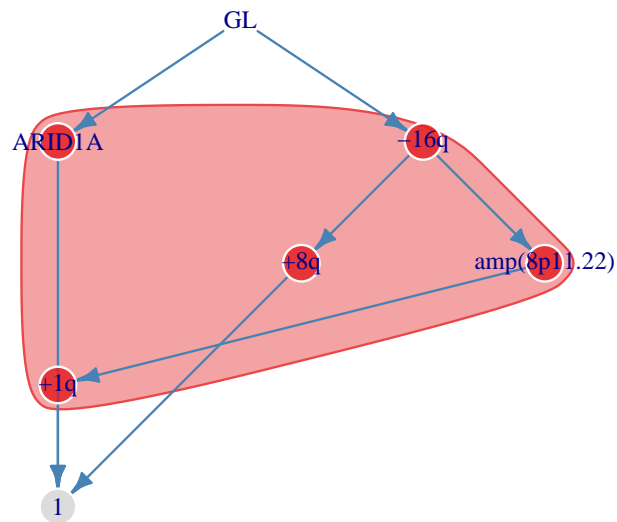
Violations

• None

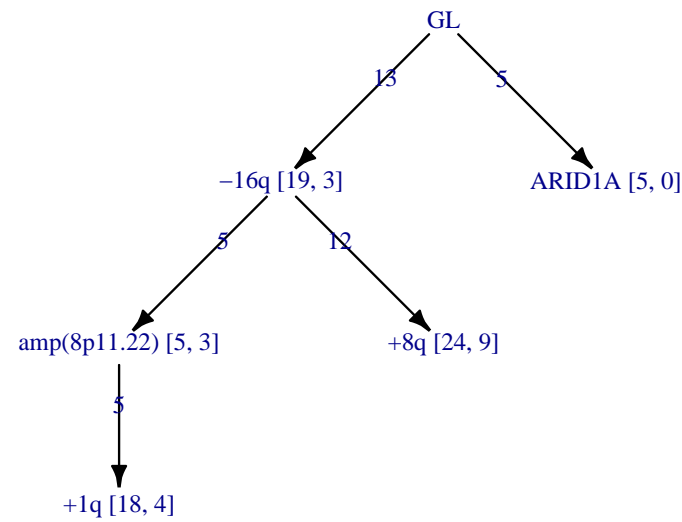
GL



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD9854

PD9854 : evolutionary trajectories

PD9854 : information transfer

Score

● $f = 2e-01$
● $g = 1$

Violations

● None

GL

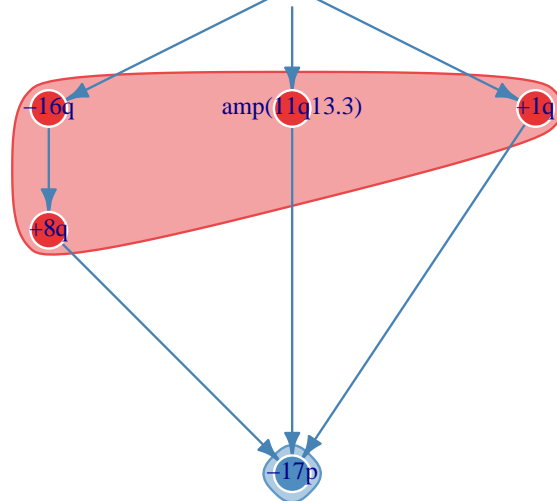


1

2

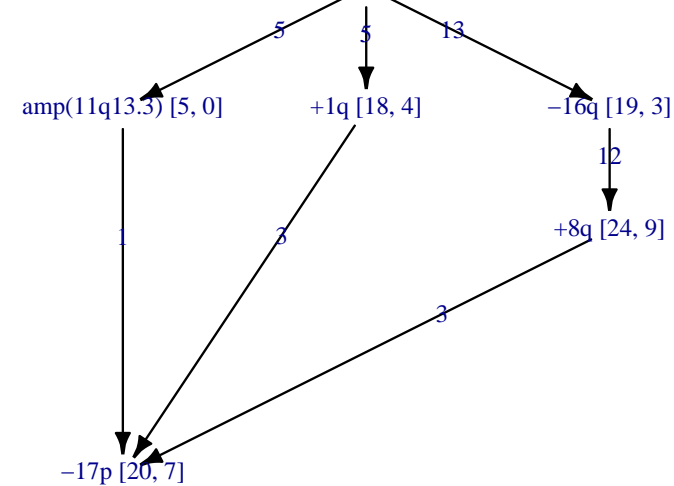
Ranked 1/1

GL



Exploded trajectories

GL



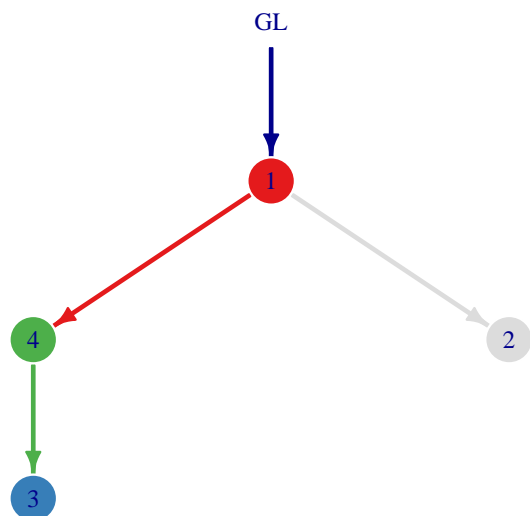
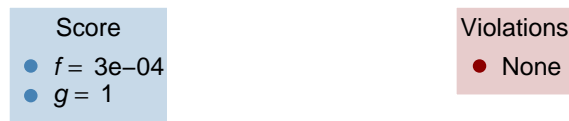
[n m]: n clonal, m subclonal (driver)

... : k patients

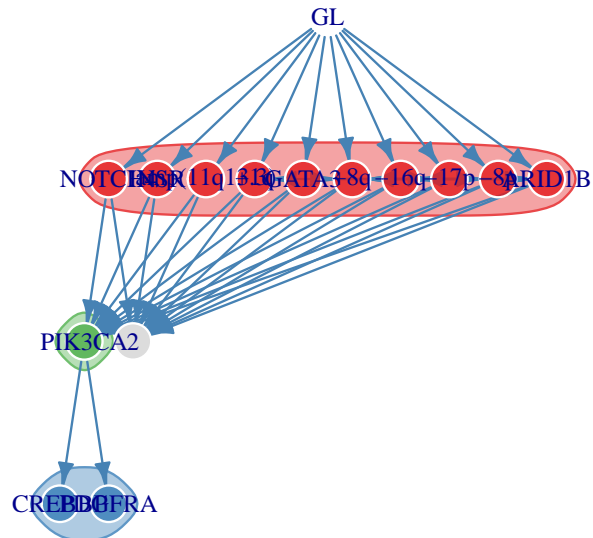
Patient: PD12334

PD12334 : evolutionary trajectories

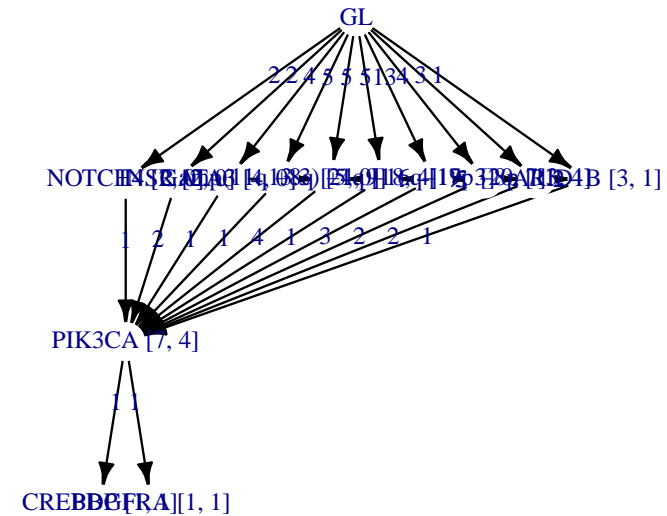
PD12334 : information transfer



Ranked 1/2

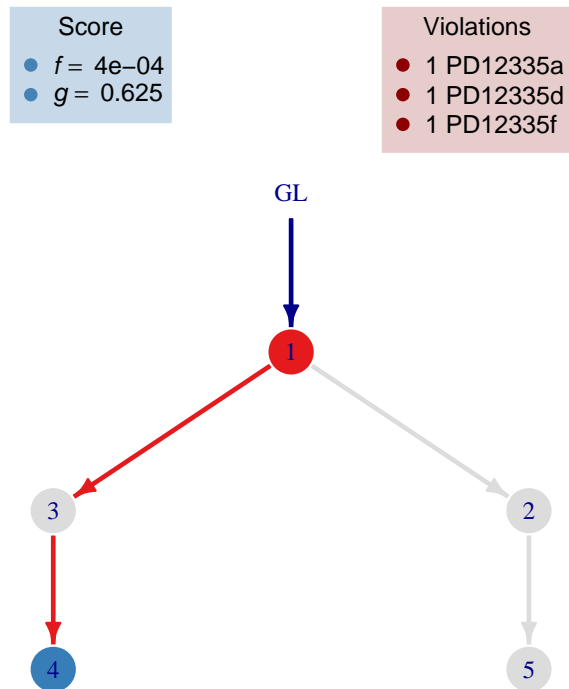


Exploded trajectories



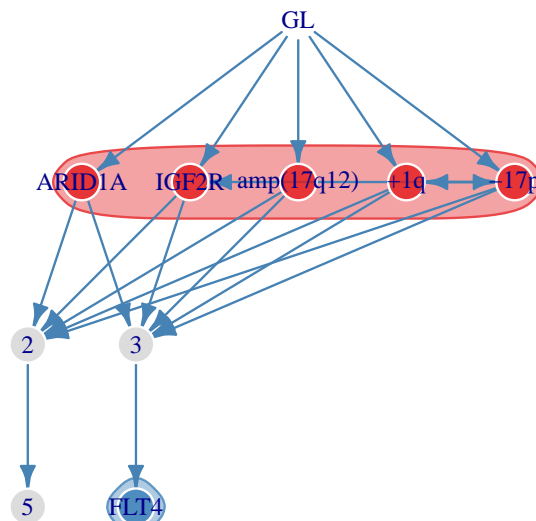
[n m]: n clonal, m subclonal (driver) ... : k patients

Patient: PD12335



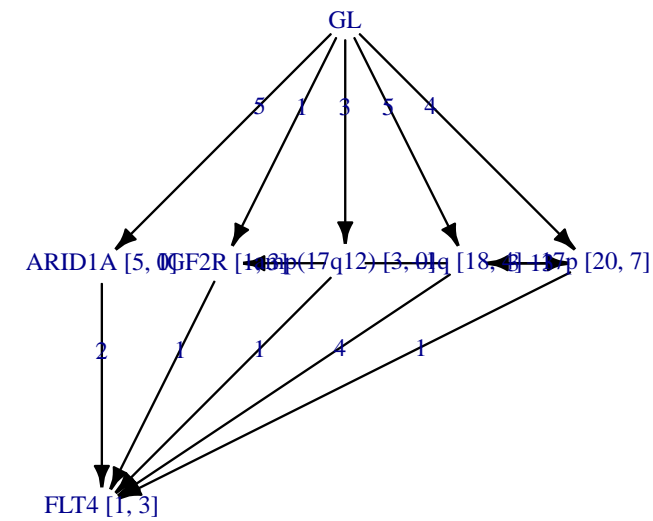
Ranked 1/4

PD12335 : evolutionary trajectories



Exploded trajectories

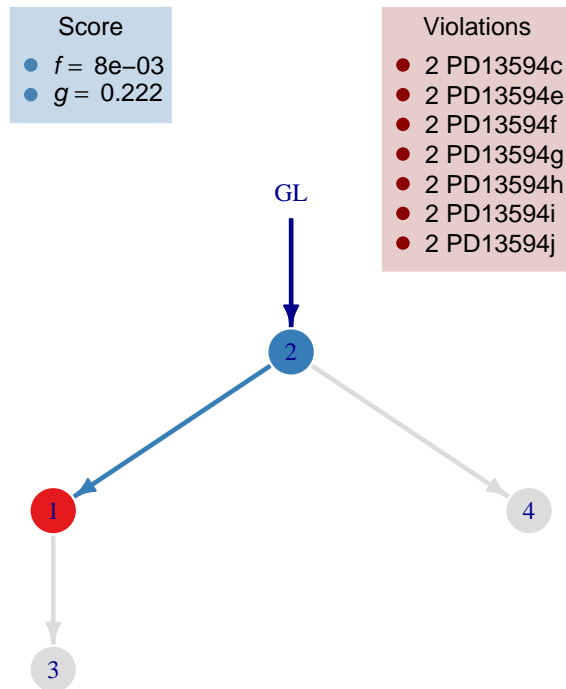
PD12335 : information transfer



[n m]: n clonal, m subclonal (driver)

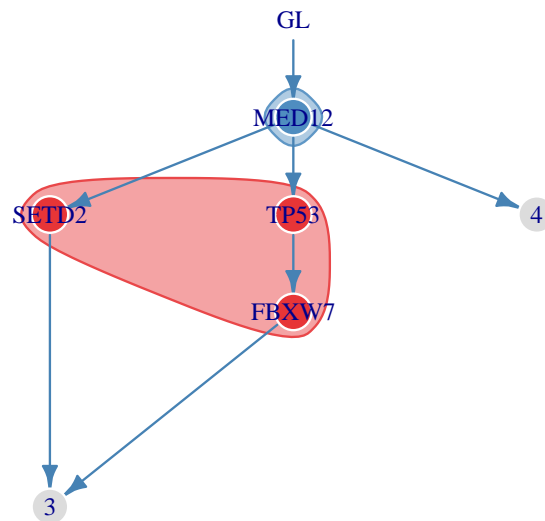
... : k patients

Patient: PD13594



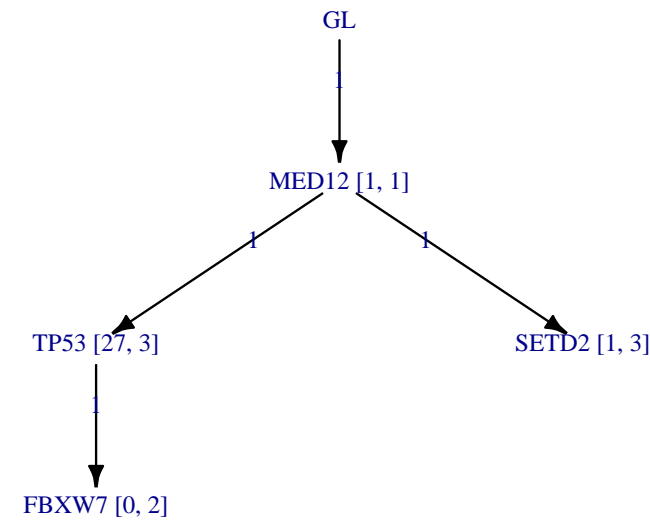
Ranked 2/3

PD13594 : evolutionary trajectories



Exploded trajectories

PD13594 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD13595

PD13595 : evolutionary trajectories

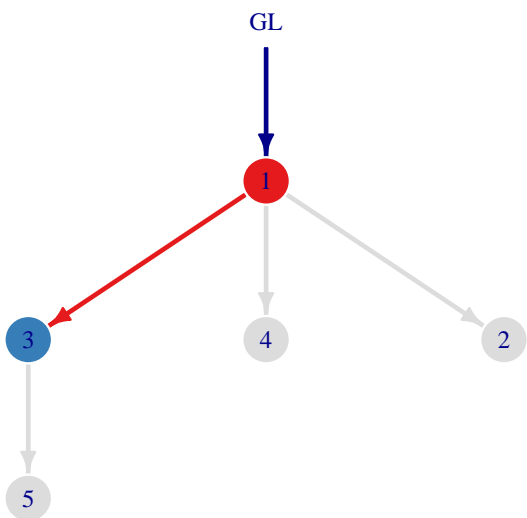
PD13595 : information transfer

Score

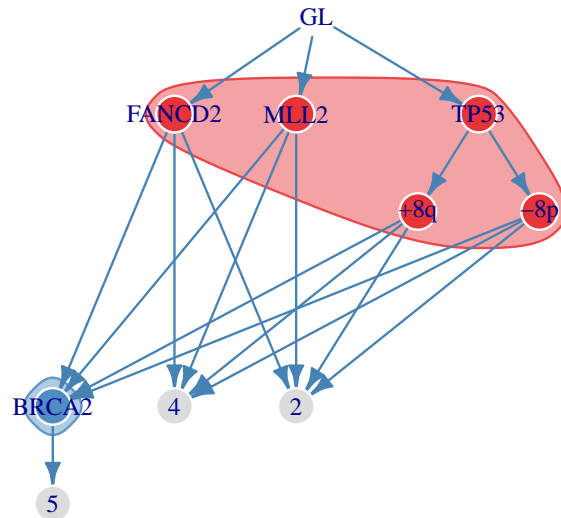
• $f = 8e-06$
• $g = 0.875$

Violations

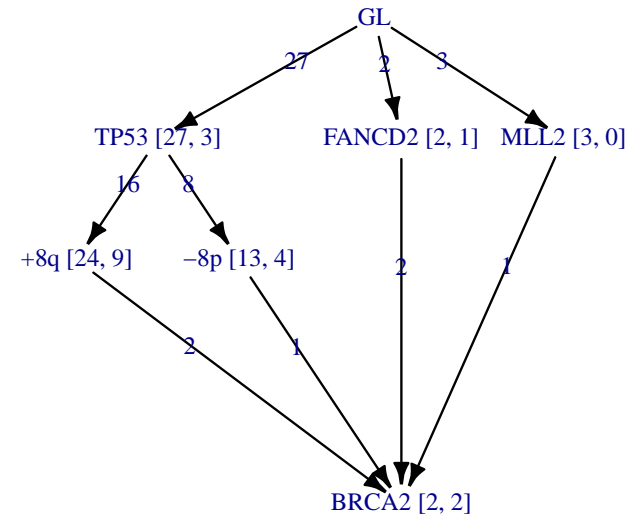
• 1 PD13595c



Ranked 1/4



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14492

PD14492 : evolutionary trajectories

PD14492 : information transfer

Score

Violations

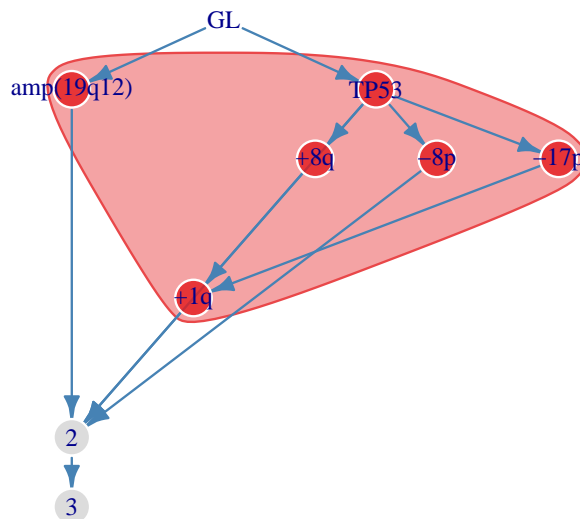
● $f = 4e-03$
● $g = 0.875$

● 2 PD14492h

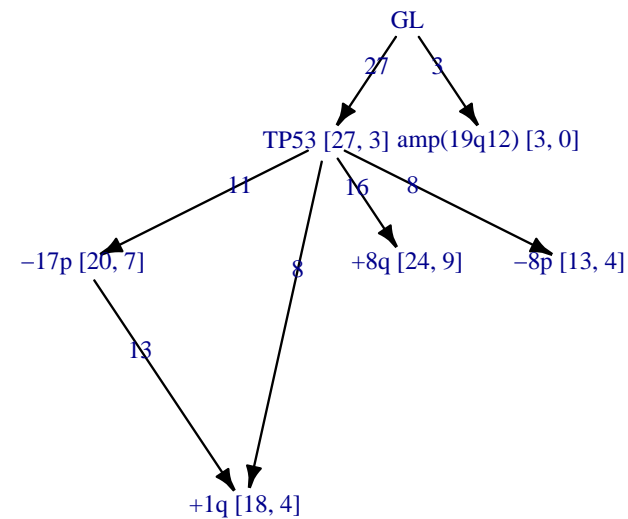
GL



Ranked 1/2



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14705

PD14705 : evolutionary trajectories

PD14705 : information transfer

Score

● $f = 9e-03$
● $g = 1$

Violations

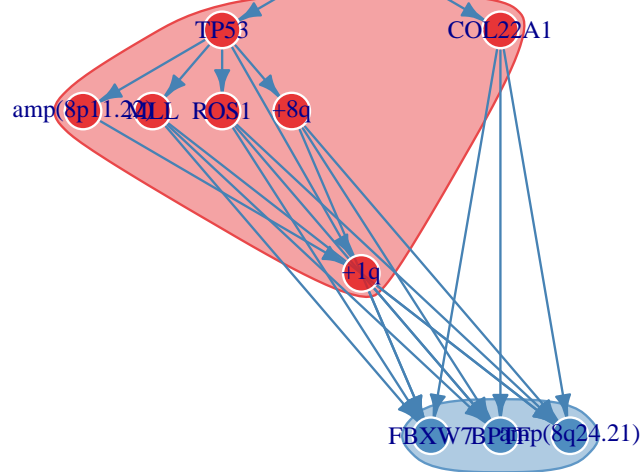
● None

GL



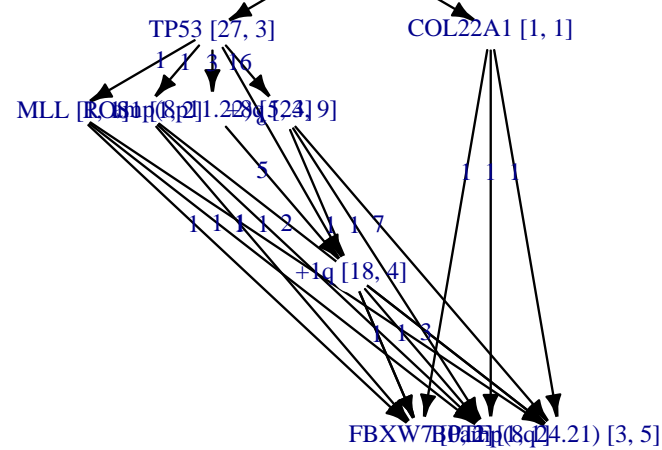
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14748

PD14748 : evolutionary trajectories

PD14748 : information transfer

Score

- $f = 8e-02$
- $g = 1$

Violations

- None

GL



1



2

Ranked 1/1

GL



PIK3CA



SETD2

Exploded trajectories

GL



PIK3CA [7, 4]



SETD2 [1, 3]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14749

PD14749 : evolutionary trajectories

PD14749 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

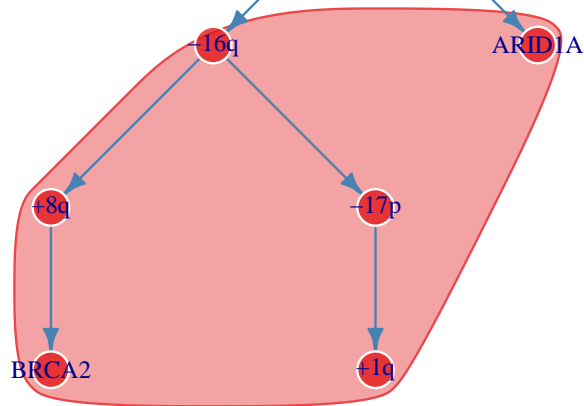
GL



1

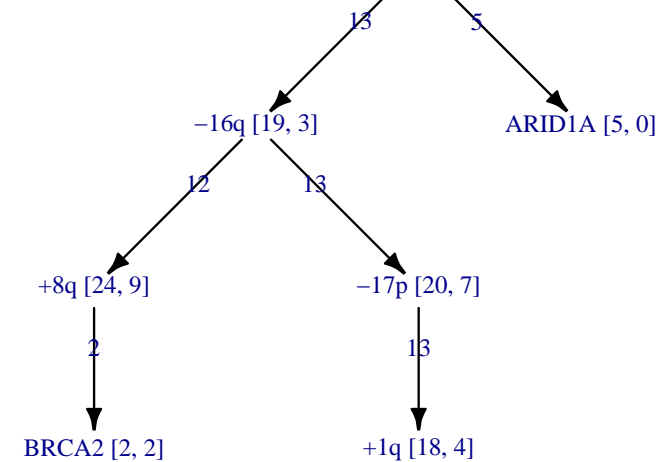
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14750

PD14750 : evolutionary trajectories

PD14750 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

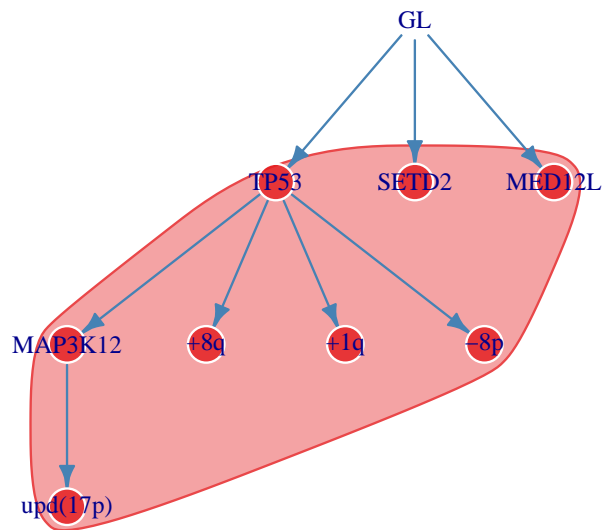
• None

GL

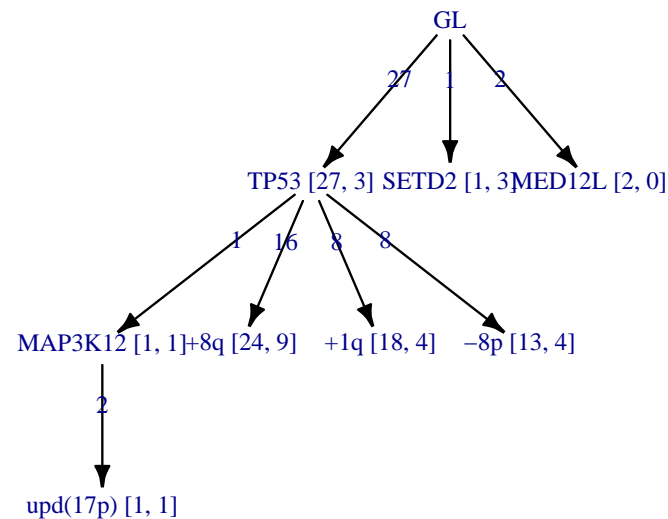


1

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14751

PD14751 : evolutionary trajectories

PD14751 : information transfer

Score

• $f = 2e-01$
• $g = 1$

Violations

• None

GL

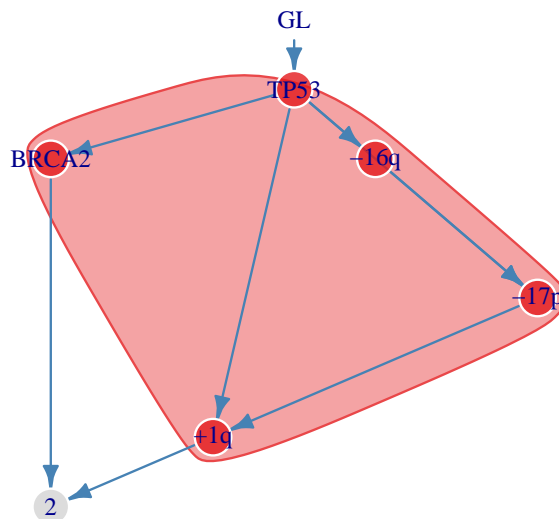


1

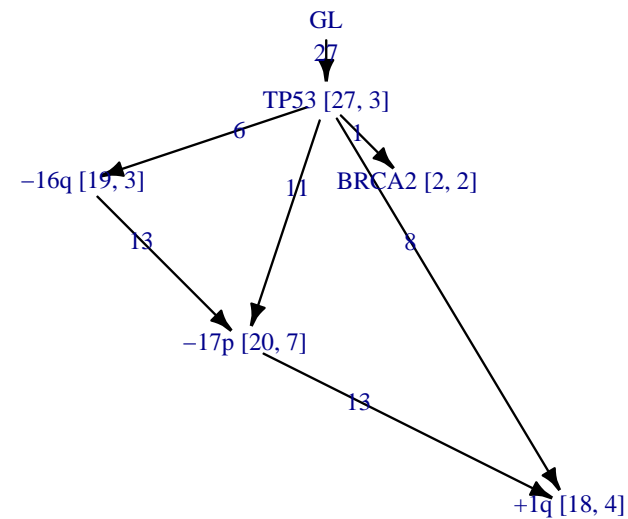


2

Ranked 1/1



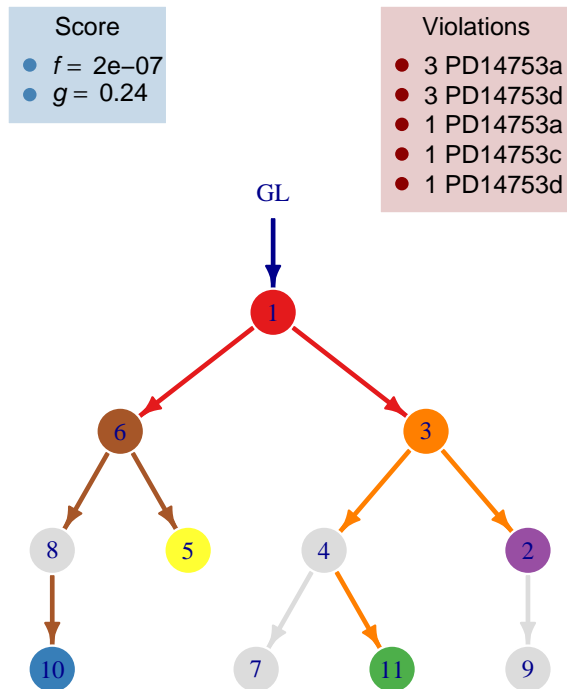
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

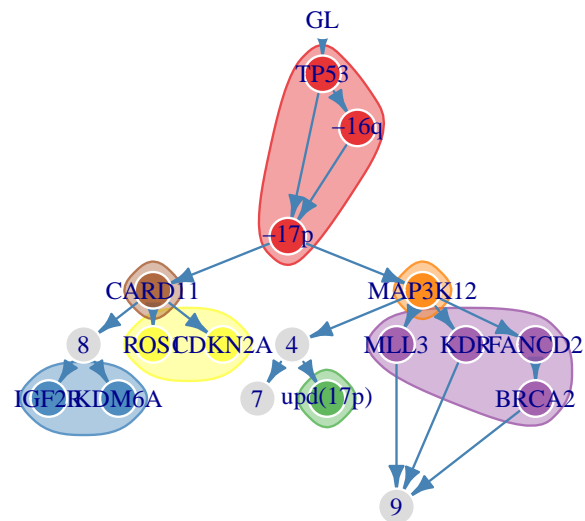
... : k patients

Patient: PD14753



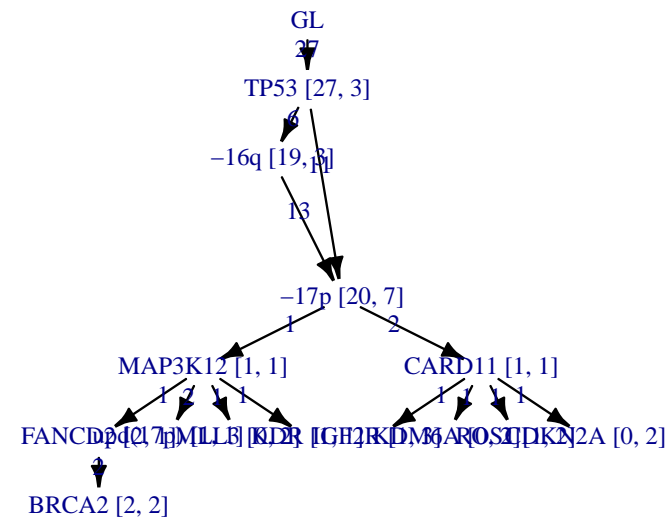
Ranked 2/200

PD14753 : evolutionary trajectories



Exploded trajectories

PD14753 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14754

PD14754 : evolutionary trajectories

PD14754 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

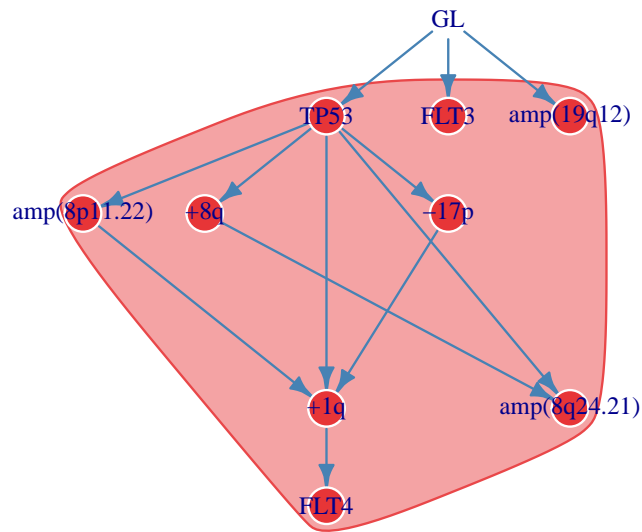
• None

GL

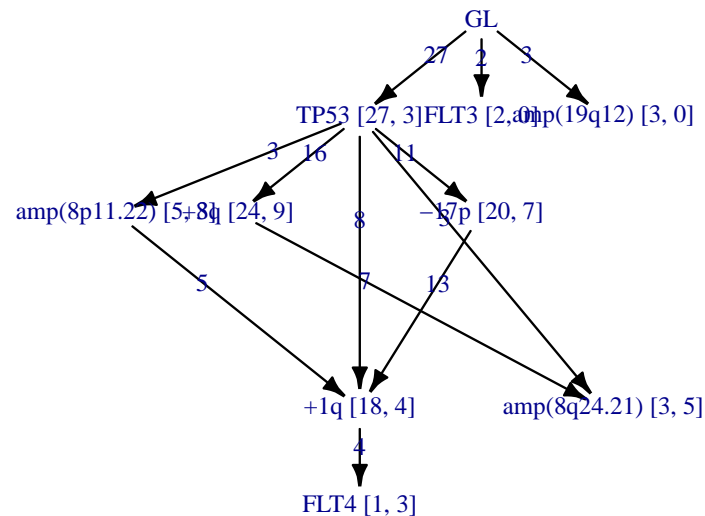


1

Ranked 1/1



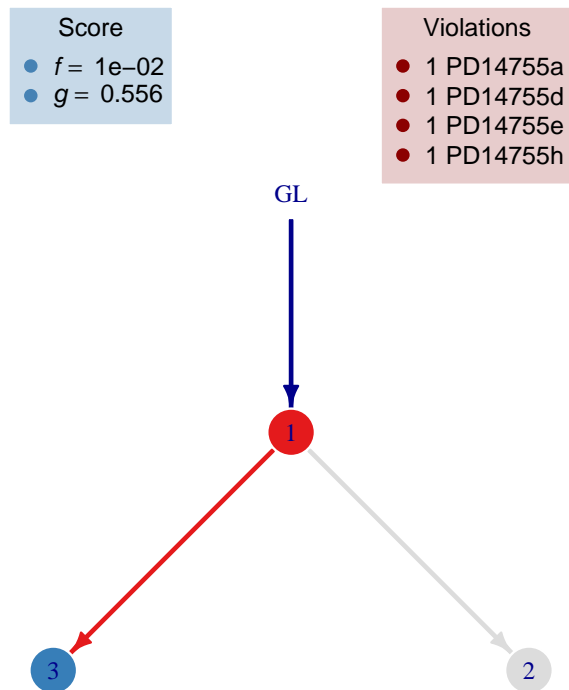
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

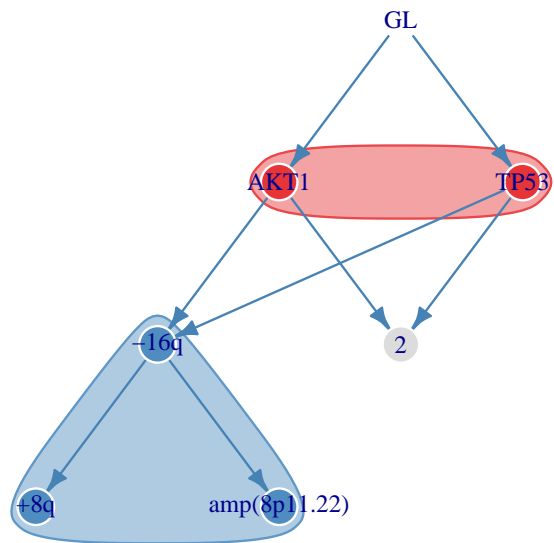
... : k patients

Patient: PD14755



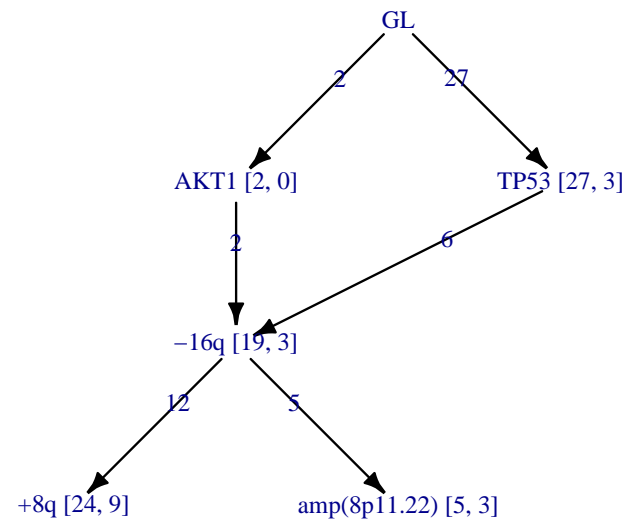
Ranked 1/1

PD14755 : evolutionary trajectories



Exploded trajectories

PD14755 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14756

PD14756 : evolutionary trajectories

PD14756 : information transfer

Score

• $f = 2e-01$
• $g = 1$

Violations

• None

GL



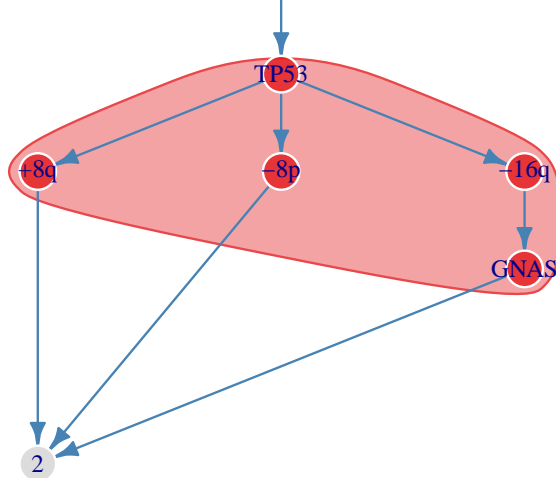
1



2

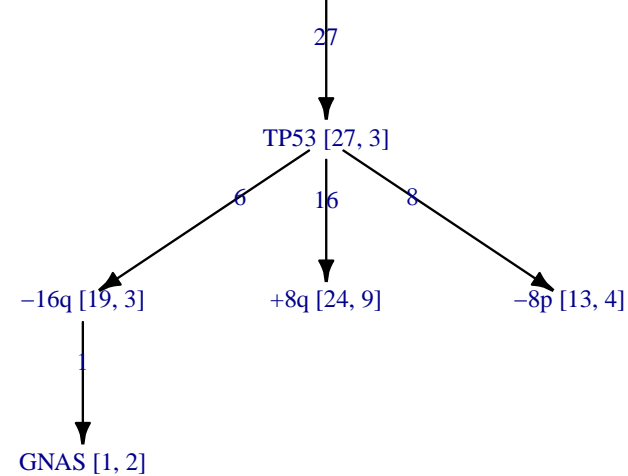
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14757

PD14757 : evolutionary trajectories

PD14757 : information transfer

Score

• $f = 2e-03$

• $g = 1$

Violations

• None

GL

3

1

2

Ranked 1/1

GL

CDH1

PIK3CA

8q

8p

16q

1

MED12

Exploded trajectories

GL

CDH1

PIK3CA

8q

8p

16q

MED12 [1, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14758

PD14758 : evolutionary trajectories

PD14758 : information transfer

Score

● $f = 1e-02$
● $g = 1$

Violations

● None

GL

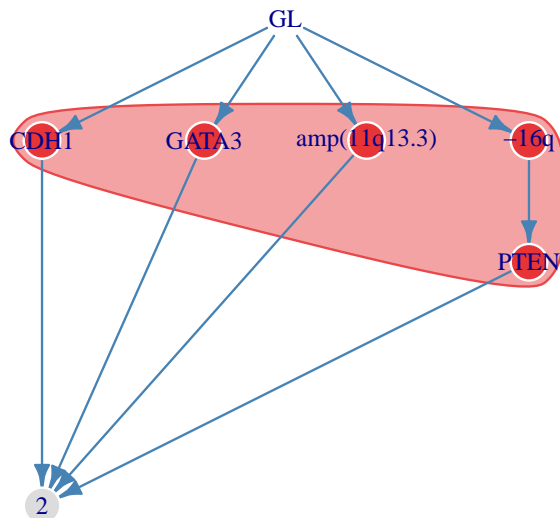


1

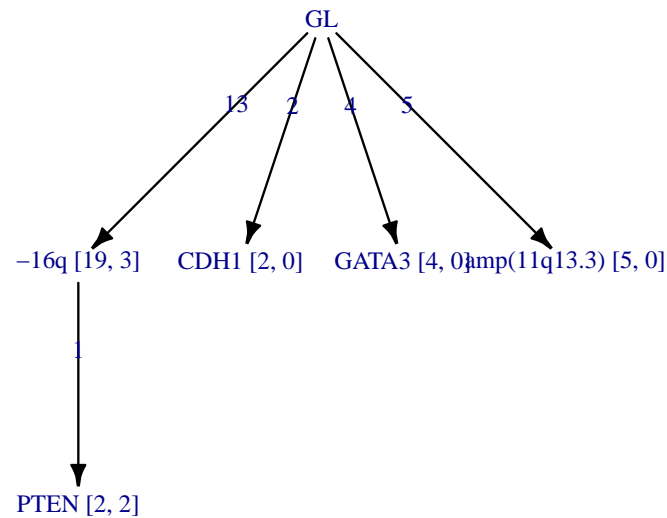


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14759

PD14759 : evolutionary trajectories

PD14759 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

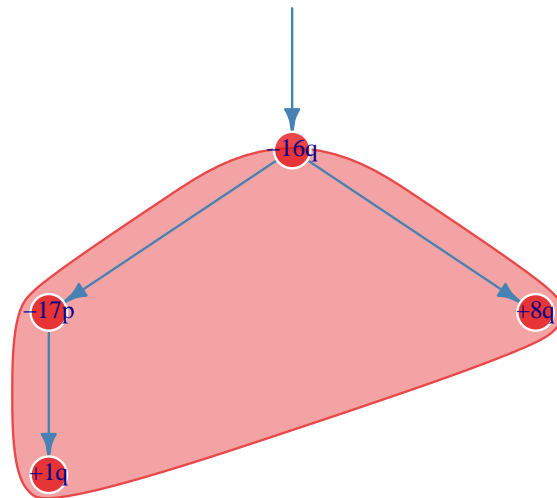
GL



1

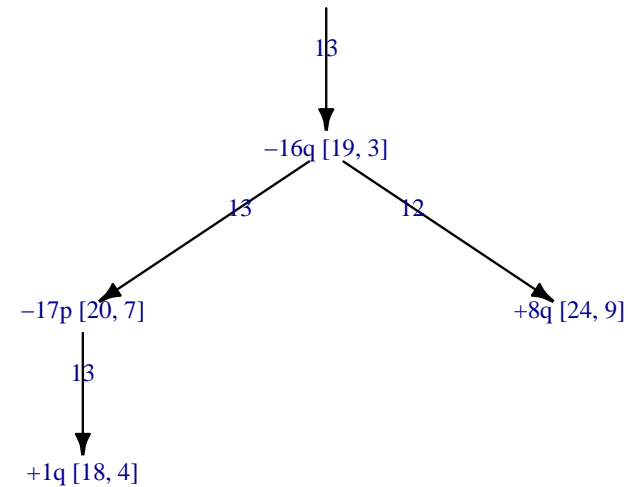
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14760

PD14760 : evolutionary trajectories

PD14760 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

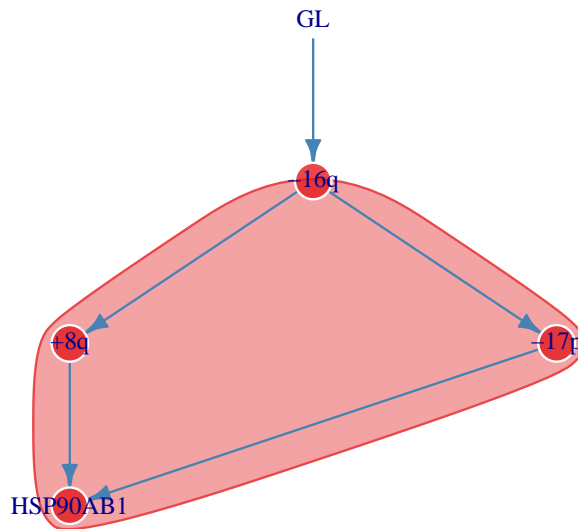
GL



1

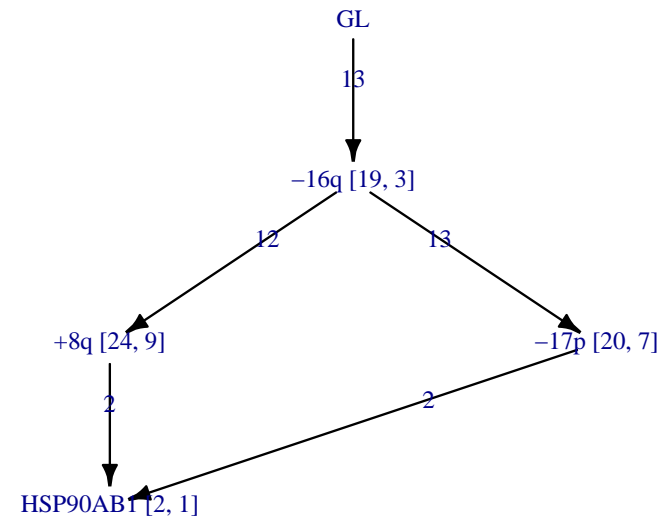
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14761

PD14761 : evolutionary trajectories

PD14761 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

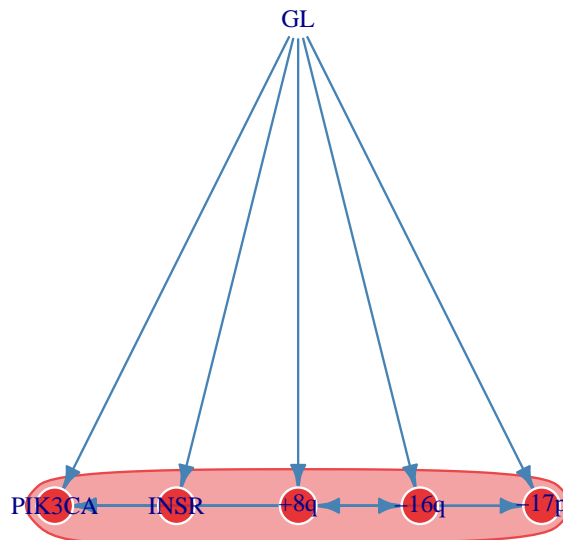
GL



1

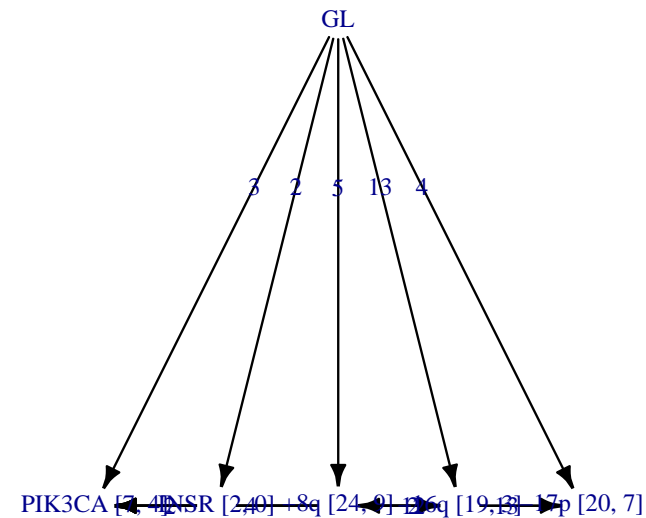
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14762

PD14762 : evolutionary trajectories

PD14762 : information transfer

Score

• $f = 1e-02$
• $g = 1$

Violations

• None

GL



2



1



3

Ranked 1/2

GL



TP53



PIK3CA



3

Exploded trajectories

GL



27



6



3

TP53 [27, 3]

PIK3CA [7, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14763

PD14763 : evolutionary trajectories

PD14763 : information transfer

Score

● $f = 1e-01$
● $g = 1$

Violations

● None

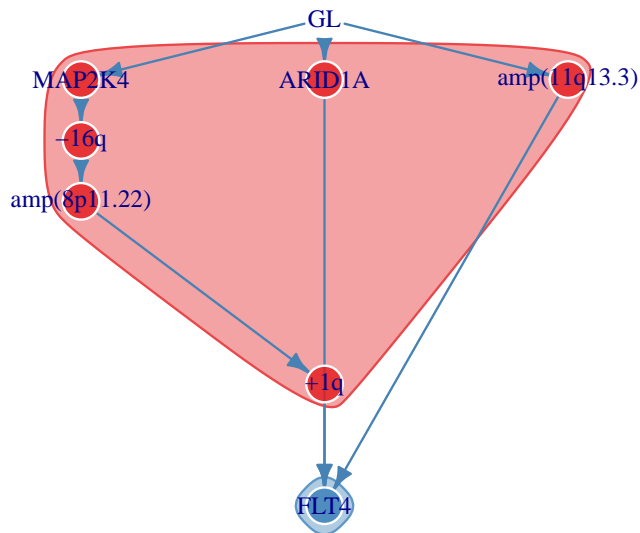
GL



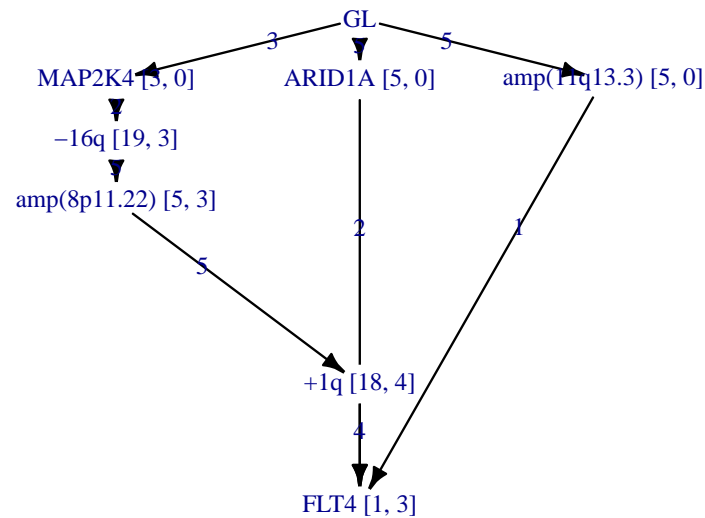
1

2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14765

PD14765 : evolutionary trajectories

PD14765 : information transfer

Score

- $f = 2e-01$
- $g = 1$

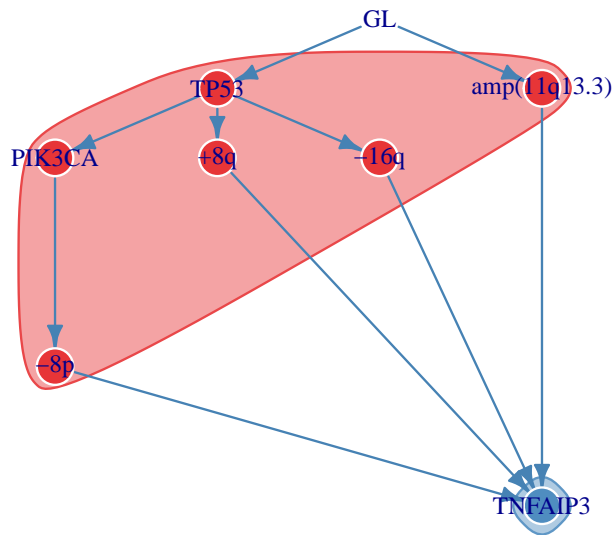
Violations

- None

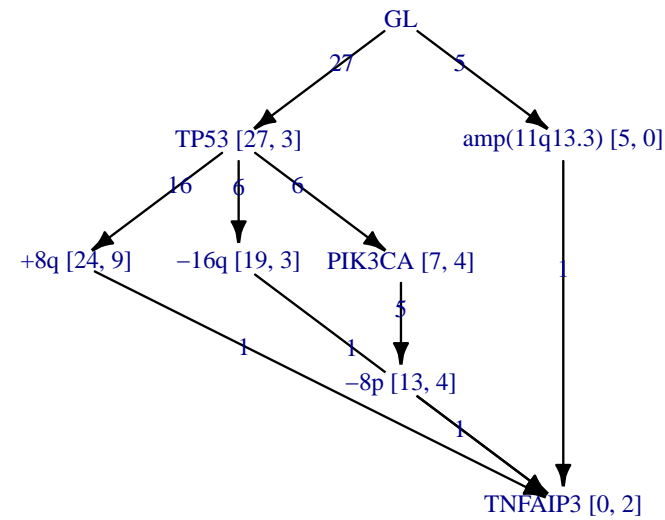
GL



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14767

Score

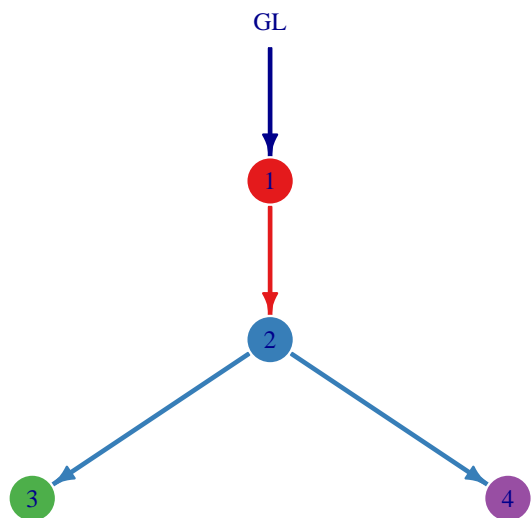
$f = 7e-03$

$g = 0.714$

Violations

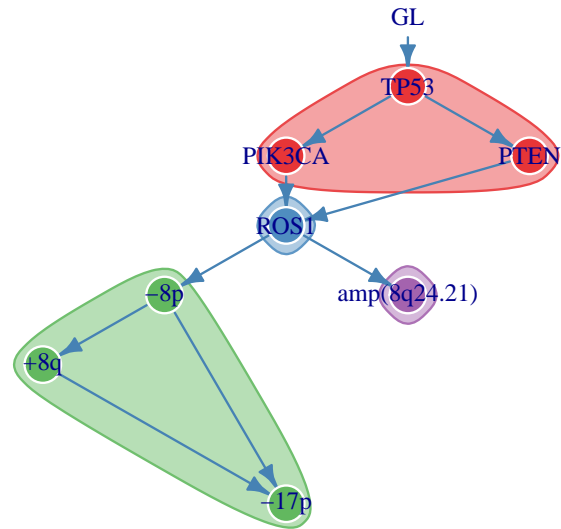
● 2 PD14767a

● 2 PD14767c



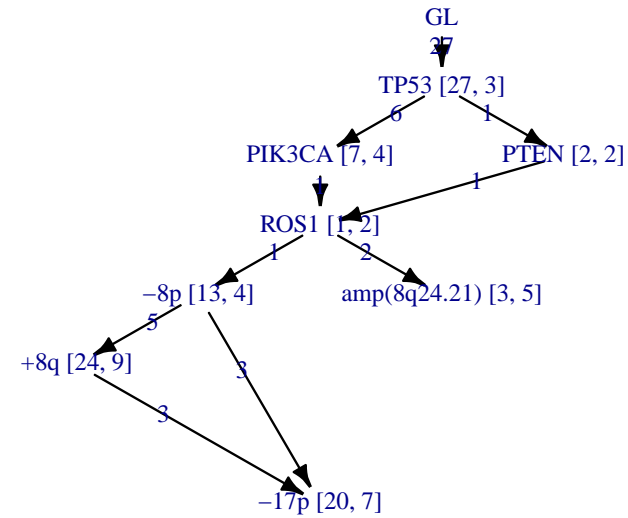
Ranked 2/6

PD14767 : evolutionary trajectories



Exploded trajectories

PD14767 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14768

PD14768 : evolutionary trajectories

PD14768 : information transfer

Score

Violations

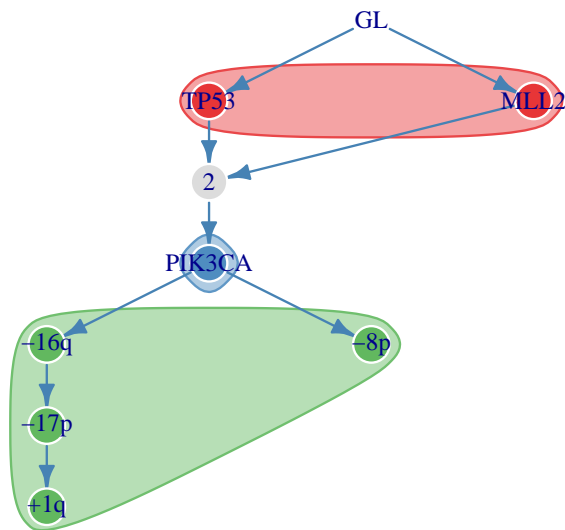
● $f = 9e-04$
● $g = 0.75$

● 3 PD14768d

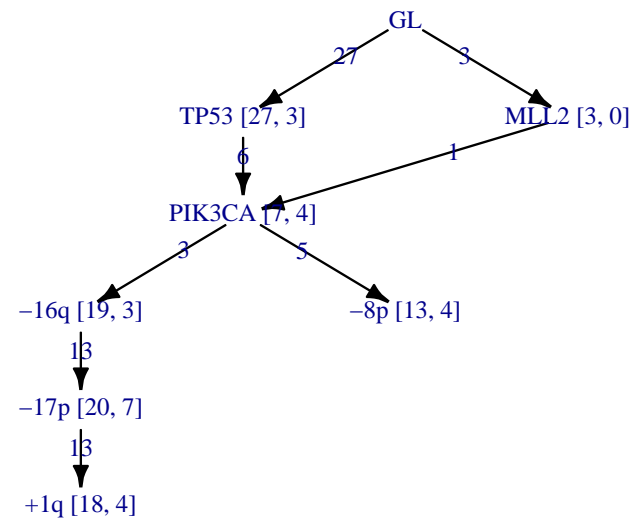
GL



Ranked 6/8



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14769

PD14769 : evolutionary trajectories

PD14769 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

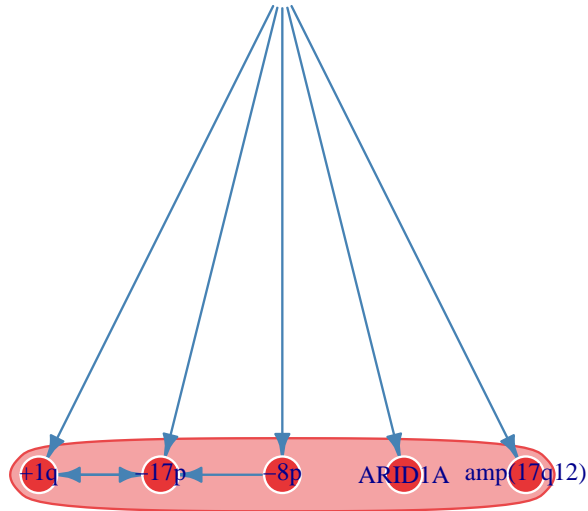
GL



1

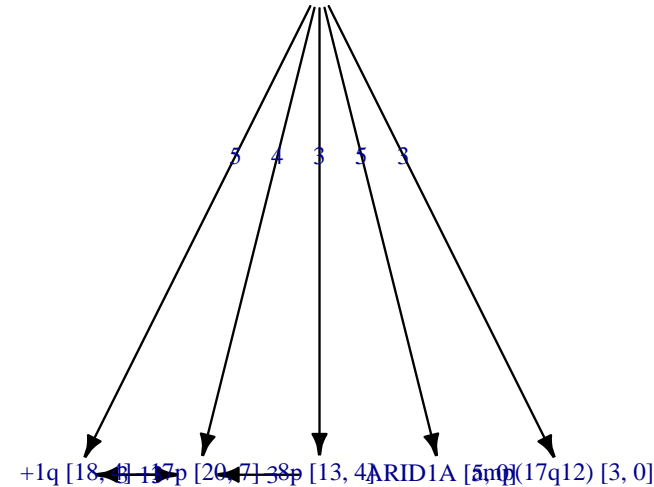
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14770

PD14770 : evolutionary trajectories

PD14770 : information transfer

Score

• $f = 5e-02$

• $g = 1$

Violations

• None

GL



1

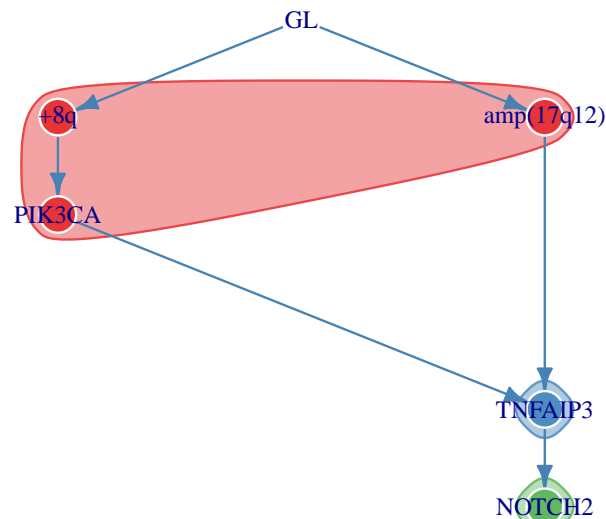


2

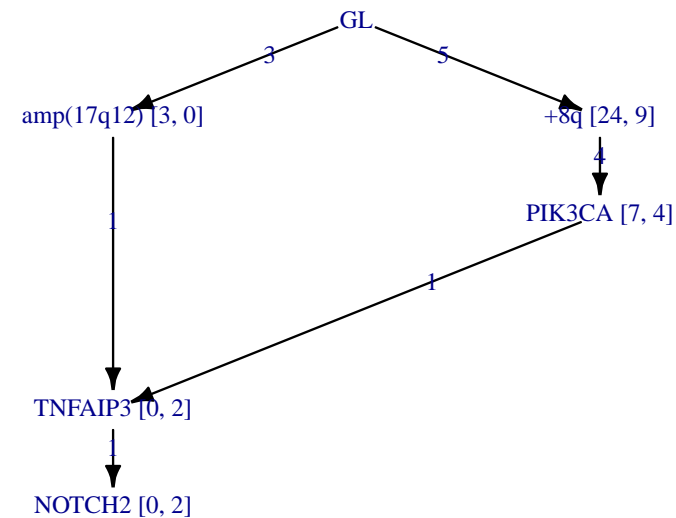


3

Ranked 1/2



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14771

PD14771 : evolutionary trajectories

PD14771 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

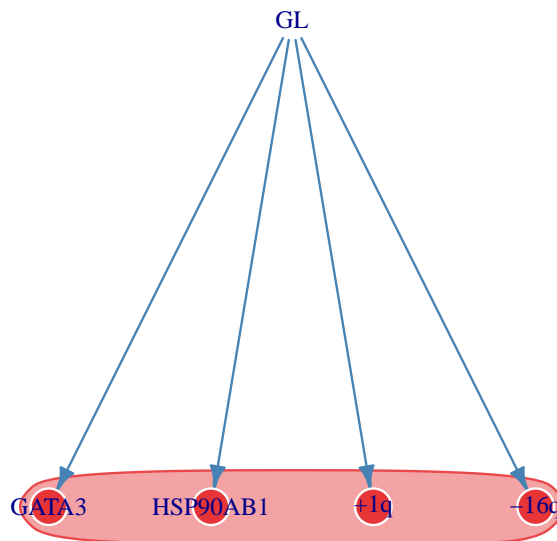
GL



1

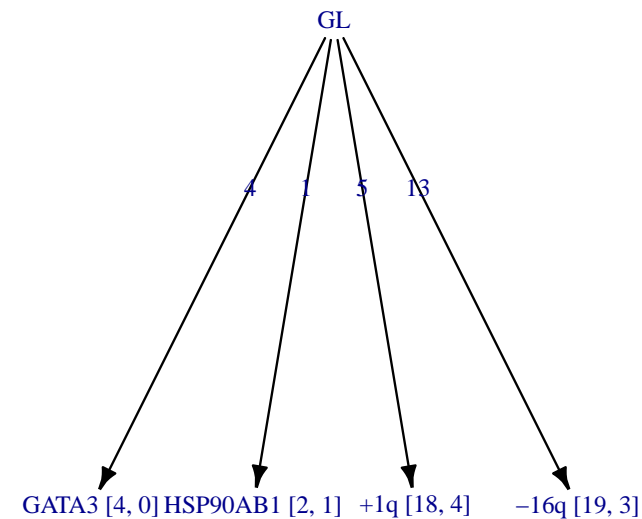
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14773

PD14773 : evolutionary trajectories

PD14773 : information transfer

Score

● $f = 1e+00$

● $g = 1$

Violations

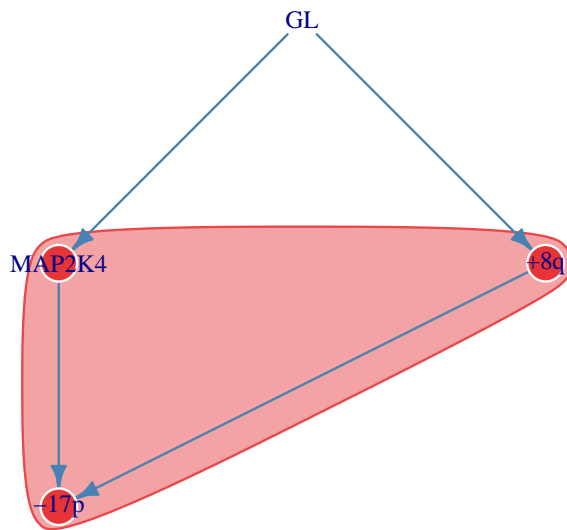
● None

GL

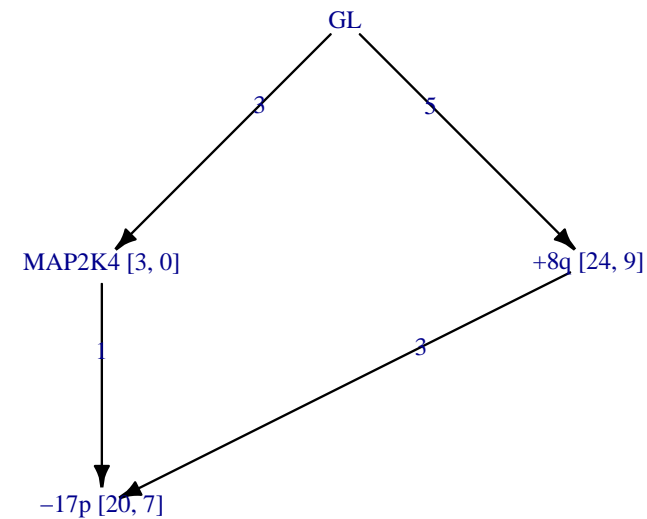


1

Ranked 1/1



Exploded trajectories



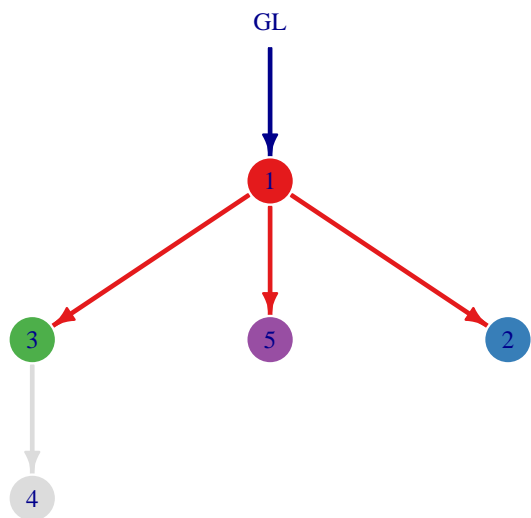
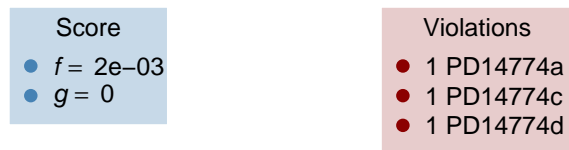
[n m]: n clonal, m subclonal (driver)

... : k patients

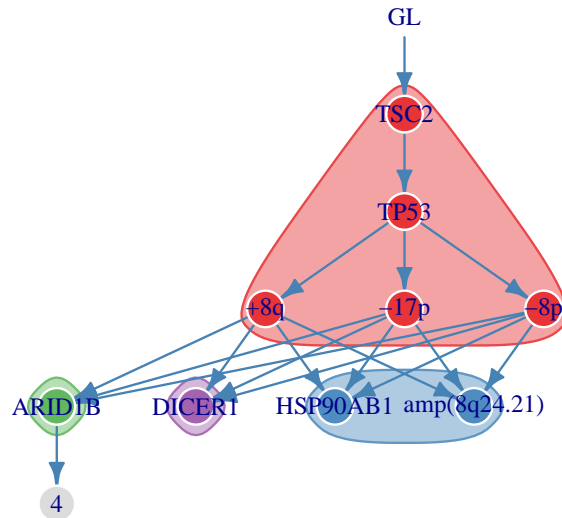
Patient: PD14774

PD14774 : evolutionary trajectories

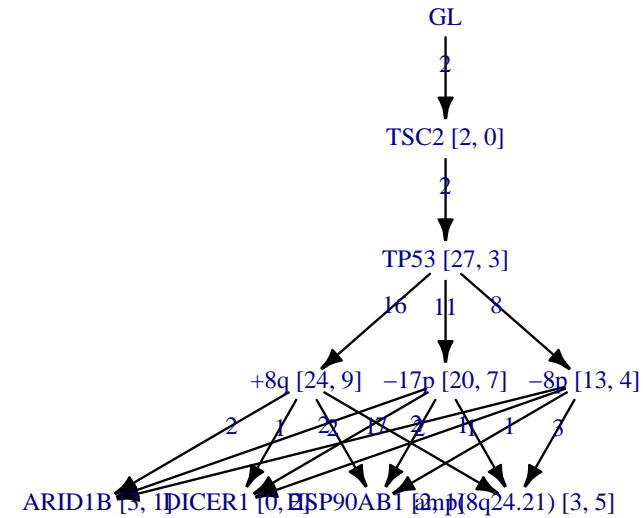
PD14774 : information transfer



Ranked 1/3



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14775

PD14775 : evolutionary trajectories

PD14775 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

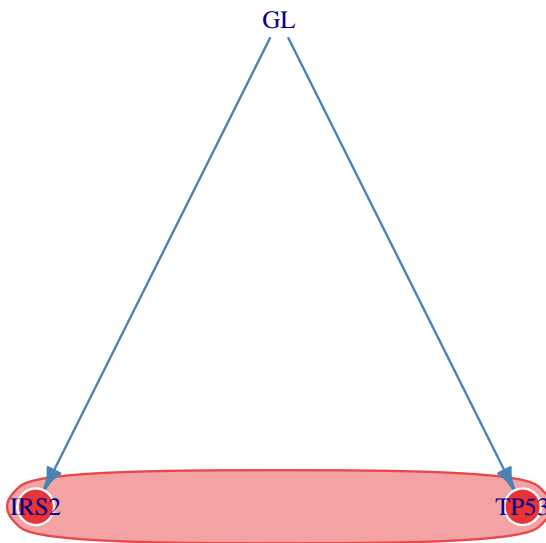
GL



1

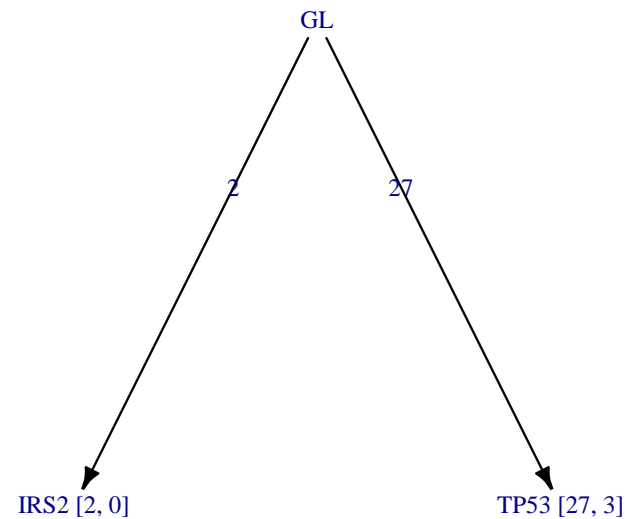
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14776

PD14776 : evolutionary trajectories

PD14776 : information transfer

Score

● $f = 2e-01$
● $g = 1$

Violations

● None

GL



2



1

Ranked 1/1

GL



TSC2

CDKN2A



TP53



GNAS



Exploded trajectories

GL

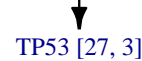


TSC2 [2, 0]

CDKN2A [0, 2]



TP53 [27, 3]



GNAS [1, 2]



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: PD14779

PD14779 : evolutionary trajectories

PD14779 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

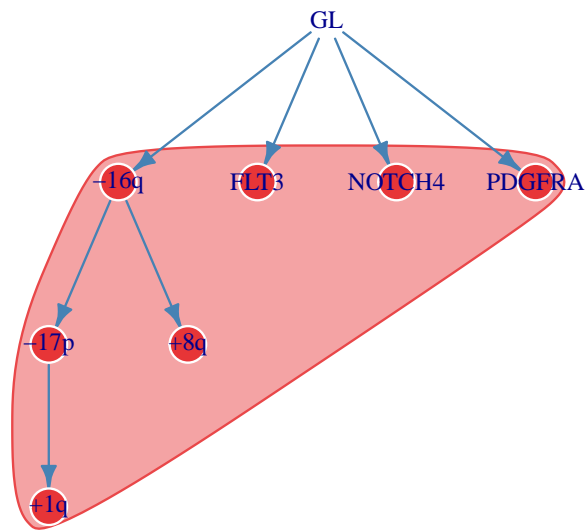
● None

GL

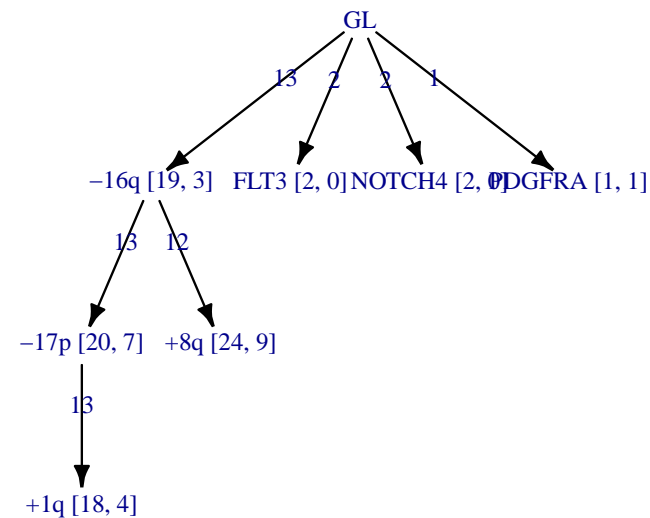


1

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients