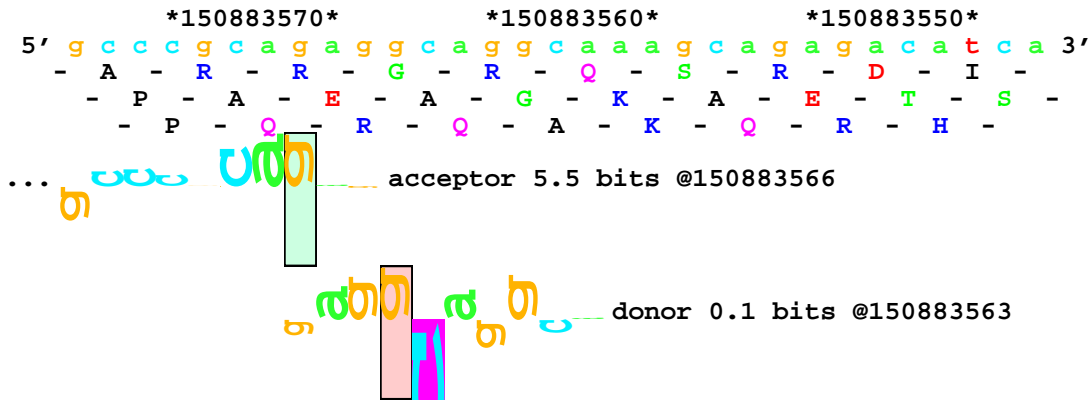
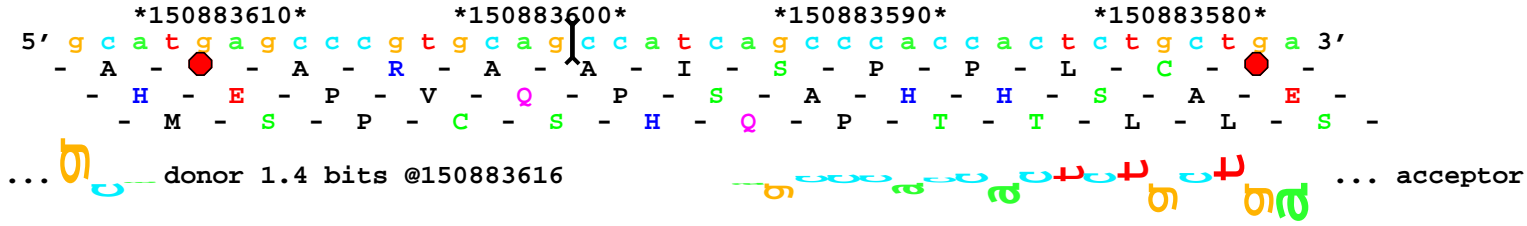
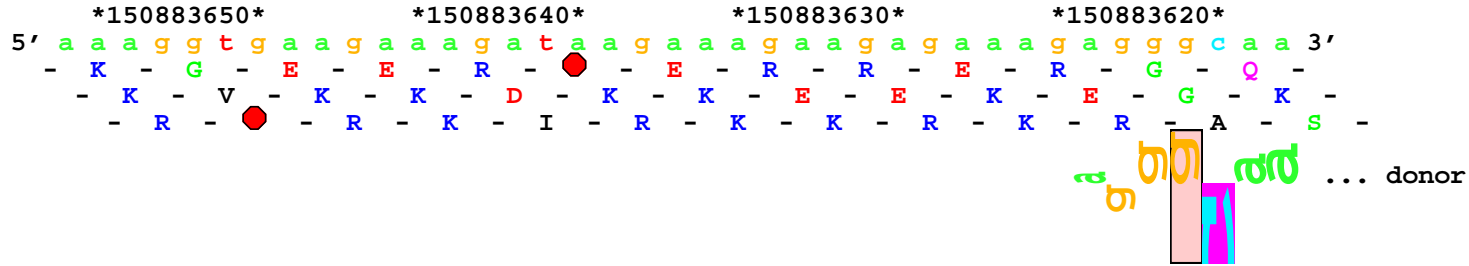
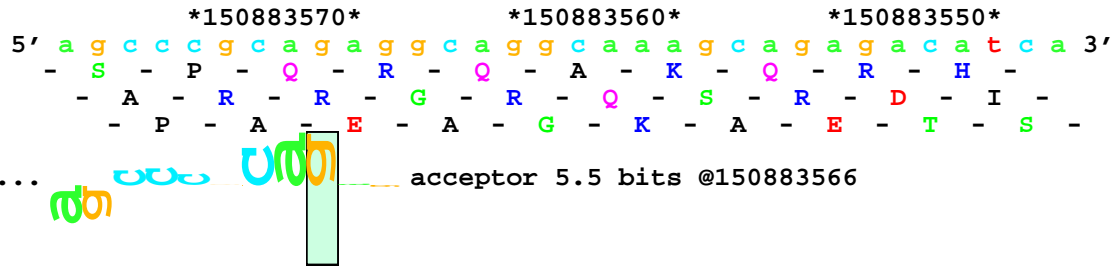
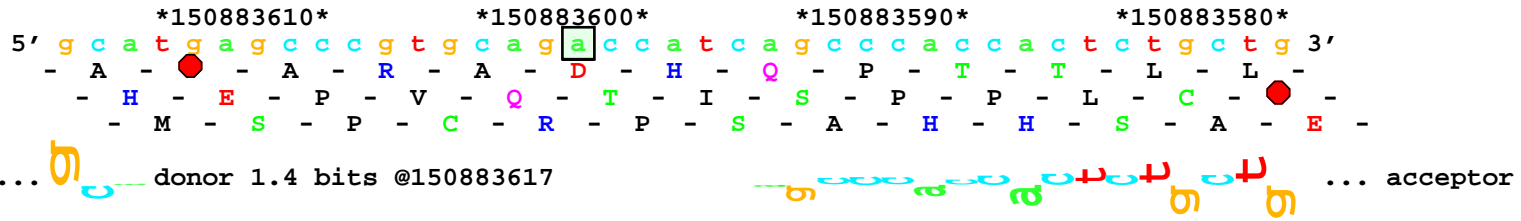
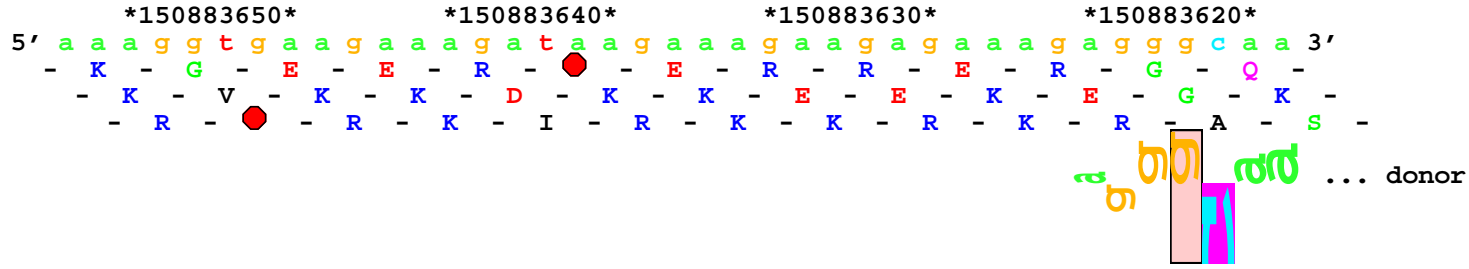
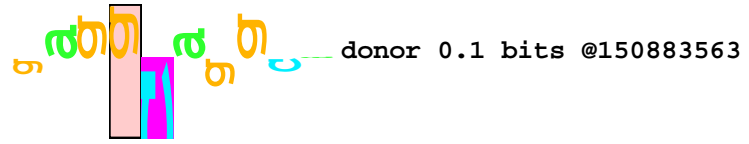


piece 1, pl, piece 1



piece 2, pl.i150883596,150883597t, 141insA i150883596,150883597t





piece 3, p1, piece 1

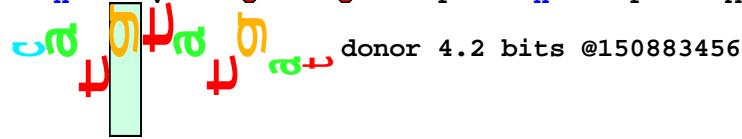
* 150883470* 150883460* 150883450* 150883440

5' a t c c g t g a c c g g g g a c c c a t g t a t g a t g a c c c c a c c c t g 3'

- I - R - D - R - G - P - M - Y - D - D - P - T - L -

- S - V - T - G - D - P - C - M - M - T - P - P - C -

- P - ● - P - G - T - H - V - ● - P - H - P - A -



* 150883430* 150883420* 150883410* 150883400

5' c c t g a a g g c t g g a c a c g g a a g c t t a a g c a a a g g a a a t c t 3'

- P - E - G - W - T - R - K - L - K - Q - R - K - S -

- L - K - A - G - H - G - S - L - S - K - G - N - L -

- ● - R - L - D - T - E - A - ● - A - K - E - I - W -



* 150883390* 150883380* 150883370

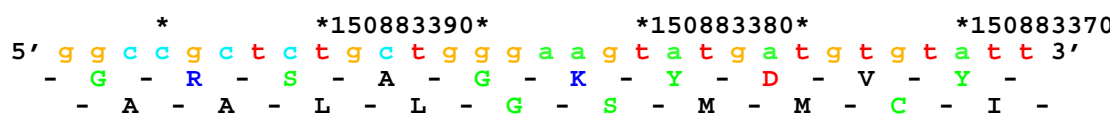
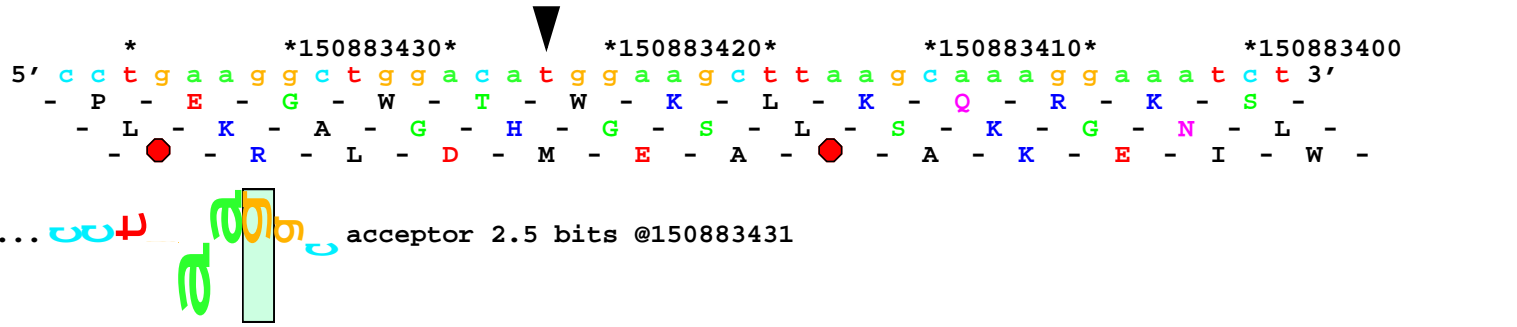
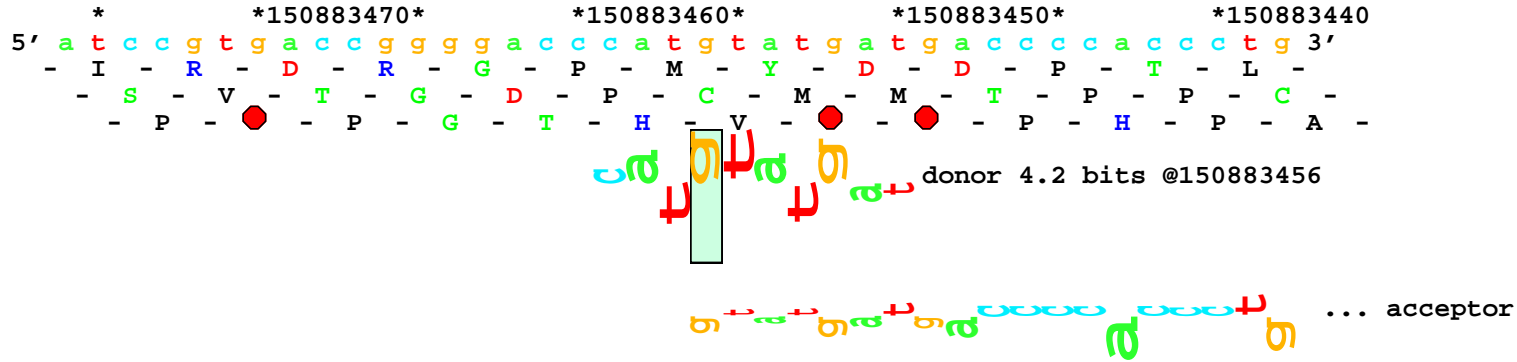
5' g g c c g c t c t g c t g g g a a g t a t g a t g t g t a t t 3'

- G - R - S - A - G - K - Y - D - V - Y -

- A - A - L - L - G - S - M - M - C - I -

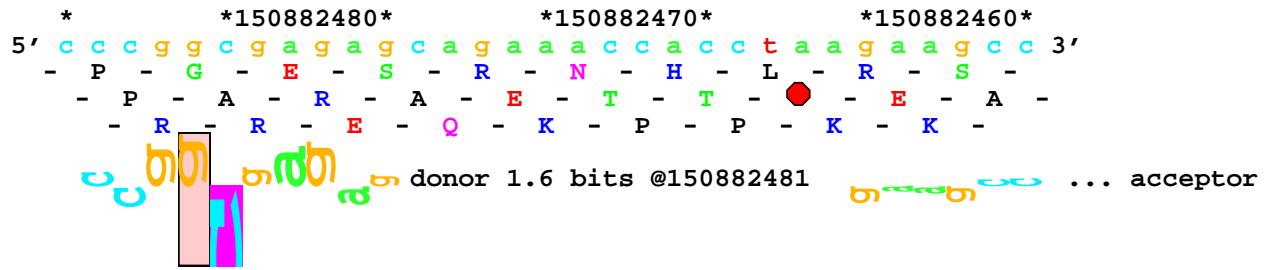
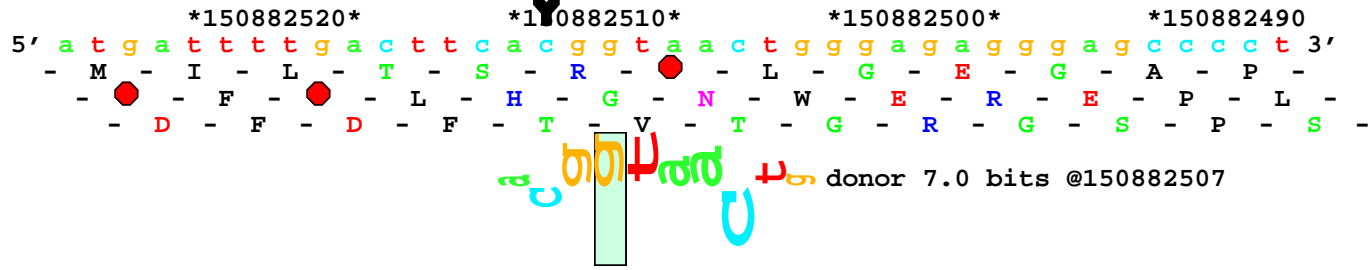
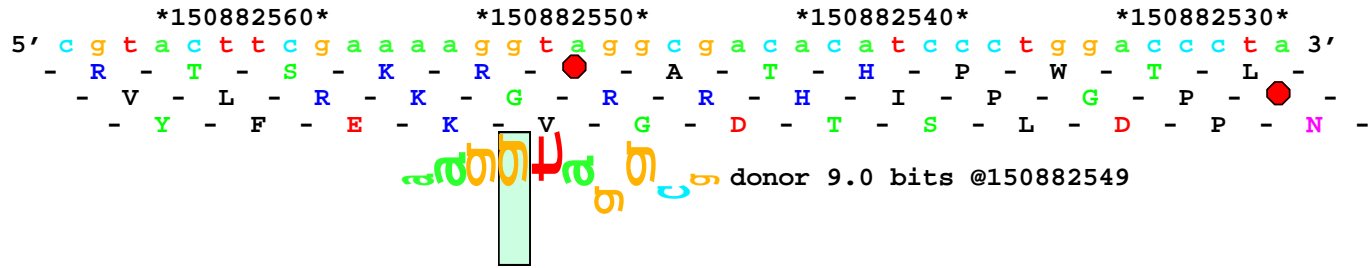
- P - L - C - W - E - V - ● - C - V -

piece 4, pl.g150883422a, 316C>T g150883422a



- P - L - C - W - E - V - ^{- 6 -} ● - C - V -

piece 5, pl, piece 1



piece 6, pl.g150882509a, 473C>T g150882509a

150882560 *150882550* *150882540* *150882530*

5' c g t a c t t c g a a a g g g t a g g c g a c a c a t c c c t g g a c c c t a 3'

- R - T - S - K - R - A - T - H - P - W - T - L -

- V - L - R - K - G - R - R - H - I - P - G - P -

- Y - F - E - K - V - G - D - T - S - L - D - P - N -

150882520 *150882510* *150882500* *150882490*

5' a t g a t t t t g a c t t c a t g g t a a c t g g g a g a g g g a g c c c c t 3'

- M - I - L - T - S - W - L - G - E - G - A - P -

- F - L - H - G - N - W - E - R - E - P - L -

- D - F - D - F - M - V - T - G - R - G - S - P - S -



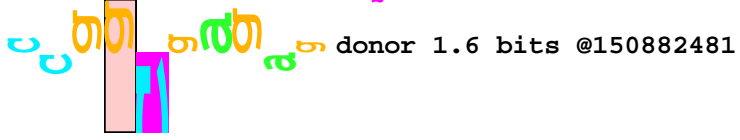
150882480 *150882470* *150882460*

5' c c c g g c g a g a g c a g a a a c c a c c t a a g a a g c c 3'

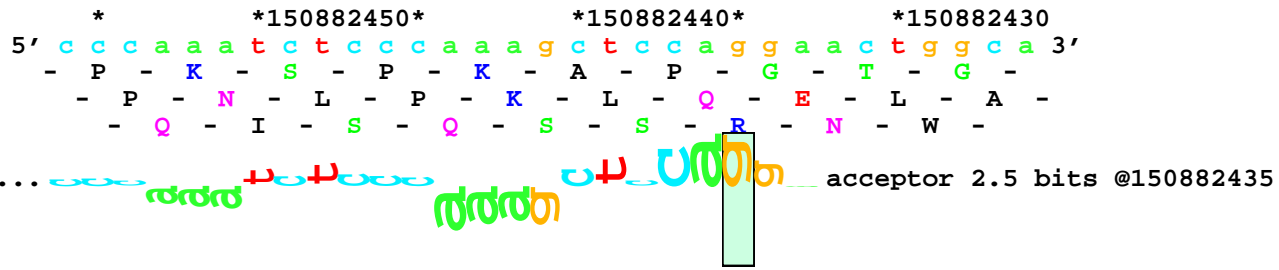
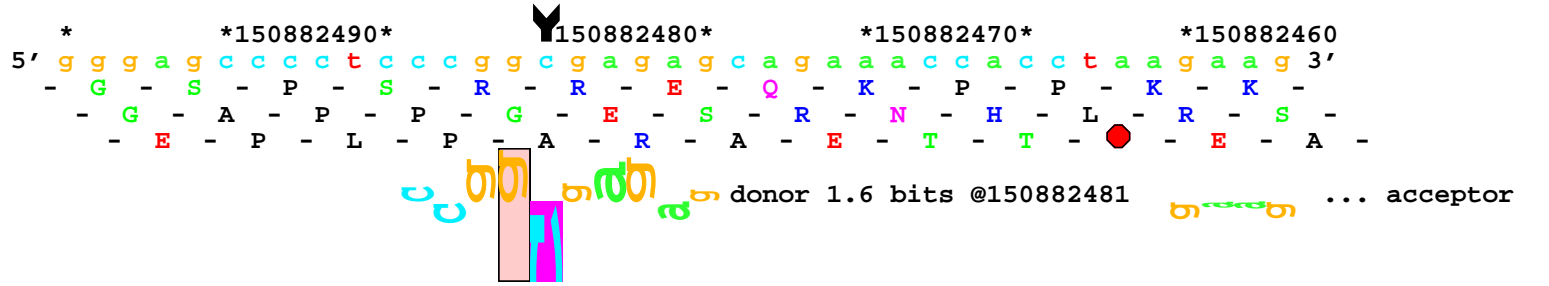
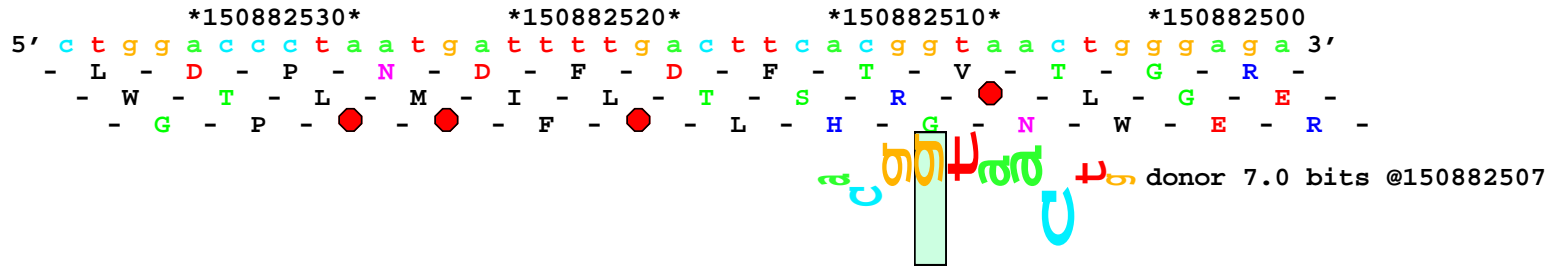
- P - G - E - S - R - N - H - L - R - S -

- P - A - R - A - E - T - T - E - A -

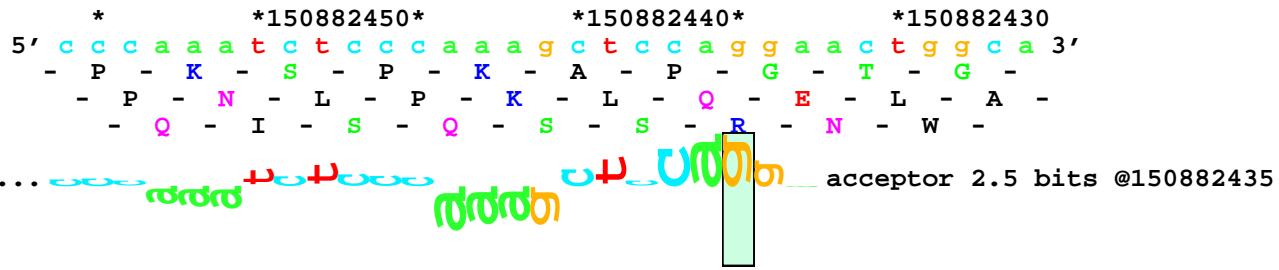
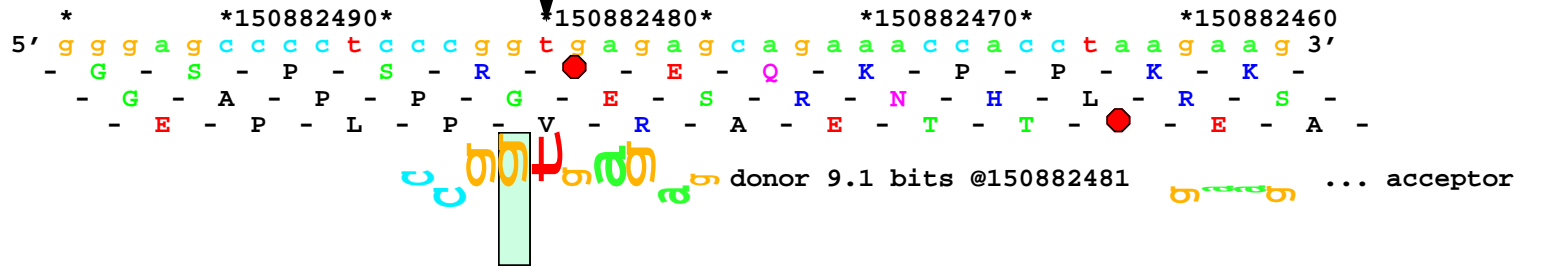
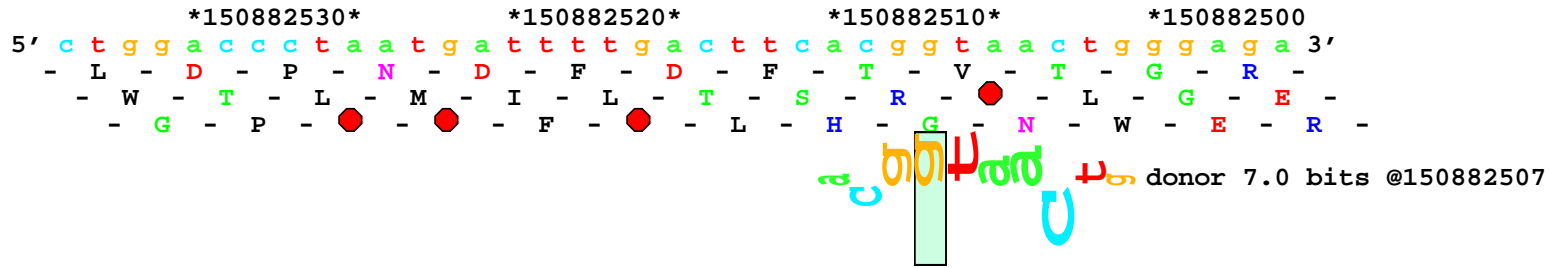
- R - R - E - Q - K - P - P - K - K -



piece 7, pl, piece 1



piece 8, pl.g150882480a, 502C>T g150882480a



piece 9, pl, piece 1

150882280 *150882270* *150882260* *150882250*

5' g c t g a g g g g g g g t g g g g c c a c c a c a t c c a c c c a g g t c a t g 3'

- A - E - G - G - G - A - T - T - S - T - Q - V - M -

- L - R - G - V - G - P - P - H - P - P - R - S - W -

- ● - G - G - W - G - H - H - I - H - P - G - H - G -

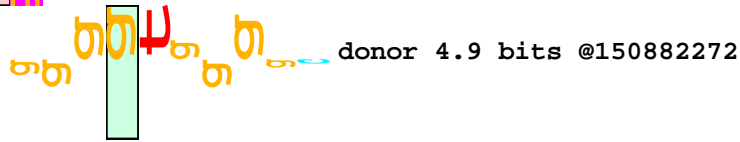
... donor 0.4 bits @150882287



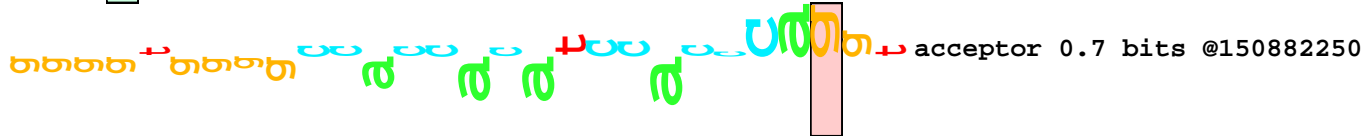
donor 0.8 bits @150882276



... donor



donor 4.9 bits @150882272



acceptor 0.7 bits @150882250

150882240 *150882230* *150882220* *150882210*

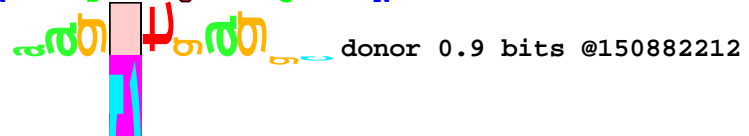
5' g t g a t c a a a c g c c c c g g c a g g a a g c g a a a a g c t g a g g c c 3'

- V - I - K - R - P - G - R - K - R - K - A - E - A -

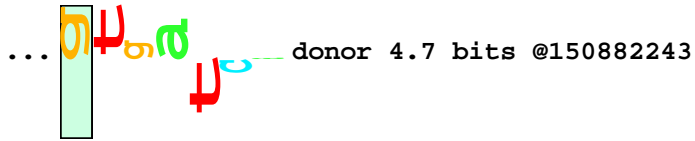
- ● - S - N - A - P - A - G - S - E - K - L - R - P -

- D - Q - T - P - R - Q - E - A - K - S - ● - G - R -

... donor 3.2 bits @150882249



donor 0.9 bits @150882212



```

*150882200*      *150882190*      *150882180*
5' g a c c c t c a g g c c a t t c c c a a g a a a c g g g g c c 3'
- D - P - Q - A - I - P - K - K - R - G -
- T - L - R - P - F - P - R - N - G - A -
- P - S - G - H - S - Q - E - T - G -

```

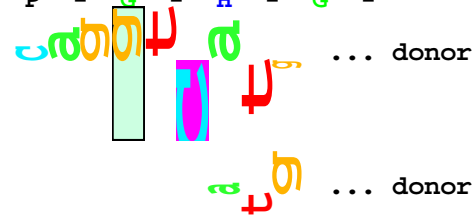


piece 10, pl.i150882227,150882228g, 754insC i150882227,150882228g

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*150882280*      *150882270*      *150882260*      *150882250*
5' g c t g a g g g g g g t g g g g c c a c c a c a t c c a c c c a g g t c a t g 3'
- A - E - G - G - G - A - T - T - S - T - Q - V - M -
- L - R - G - V - G - P - P - H - P - P - R - S - W -
- ● - G - G - W - G - H - H - I - H - P - G - H - G -

```





... acceptor

150882240 *150882230* *150882220* *150882210*

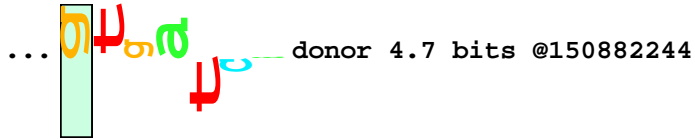
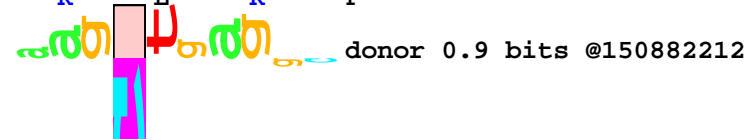
5' g t g a t c a a a c g c c c c g c g c a g g a a g c g a a a a g c t g a g g c 3'

- V - I - K - R - P - A - Q - E - A - K - S - G -

- S - N - A - P - R - R - K - R - K - A - E - A -

- D - Q - T - P - R - A - G - S - E - K - L - R - P -

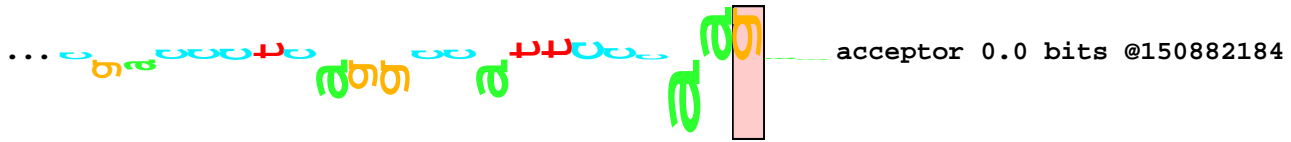
... donor 3.2 bits @150882250



... acceptor



* *150882200* *150882190* *150882180*
5' c g a c c c t c a g g c c a t t c c c a a g a a a c g g g g c c 3'
- R - P - S - G - H - S - Q - E - T - G -
- D - P - Q - A - I - P - K - K - R - G -
- T - L - R - P - F - P - R - N - G - A -



piece 11, p1, piece 1

150882270 *150882260* *150882250* *150882240*
 5' g g t g g g g c c a c c a c a t c c a c c c a g g t c a t g g t g a t c a a a 3'
 - G - G - A - T - T - S - T - Q - V - M - V - I - K -
 - V - G - P - P - H - P - P - R - S - W - ● - S - N -
 - W - G - H - H - I - H - P - G - H - G - D - Q - T -

... donor 0.8 bits @150882276 donor 3.2 bits @150882249

... donor 4.9 bits @150882272 donor 4.7 bits @150882243

... acceptor 0.7 bits @150882250

150882230 *150882220* *150882210* *150882200
 5' c g c c c c g g c a g g a a g c g a a a a g c t g a g g c c g a c c c t c a g 3'
 - R - P - G - R - K - R - K - A - E - A - D - P - Q -
 - A - P - A - G - S - E - K - L - R - P - T - L - R -
 - P - R - Q - E - A - K - S - ● - G - R - P - S - G -

donor 0.9 bits @150882212

... acceptor

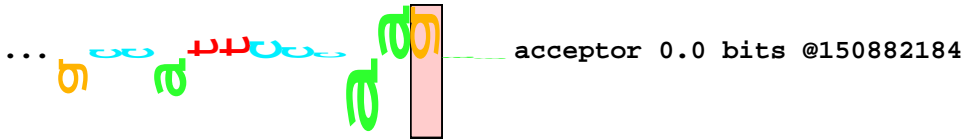
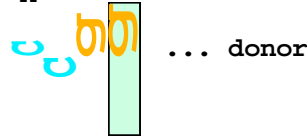
150882190 *150882180* *150882170*

5' g c c a t t c c c a a g a a a c g g g g c c g a a a g c c g g 3'

- A - I - P - K - K - R - G - R - K - P -

- P - F - P - R - N - G - A - E - S - R -

- H - S - Q - E - T - G - P - K - A -



piece 12, p1.g150882219a, 763C>T g150882219a

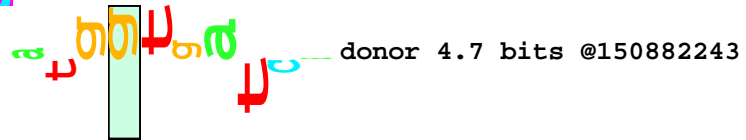
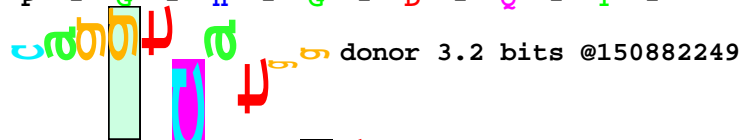
150882270 *150882260* *150882250* *150882240*

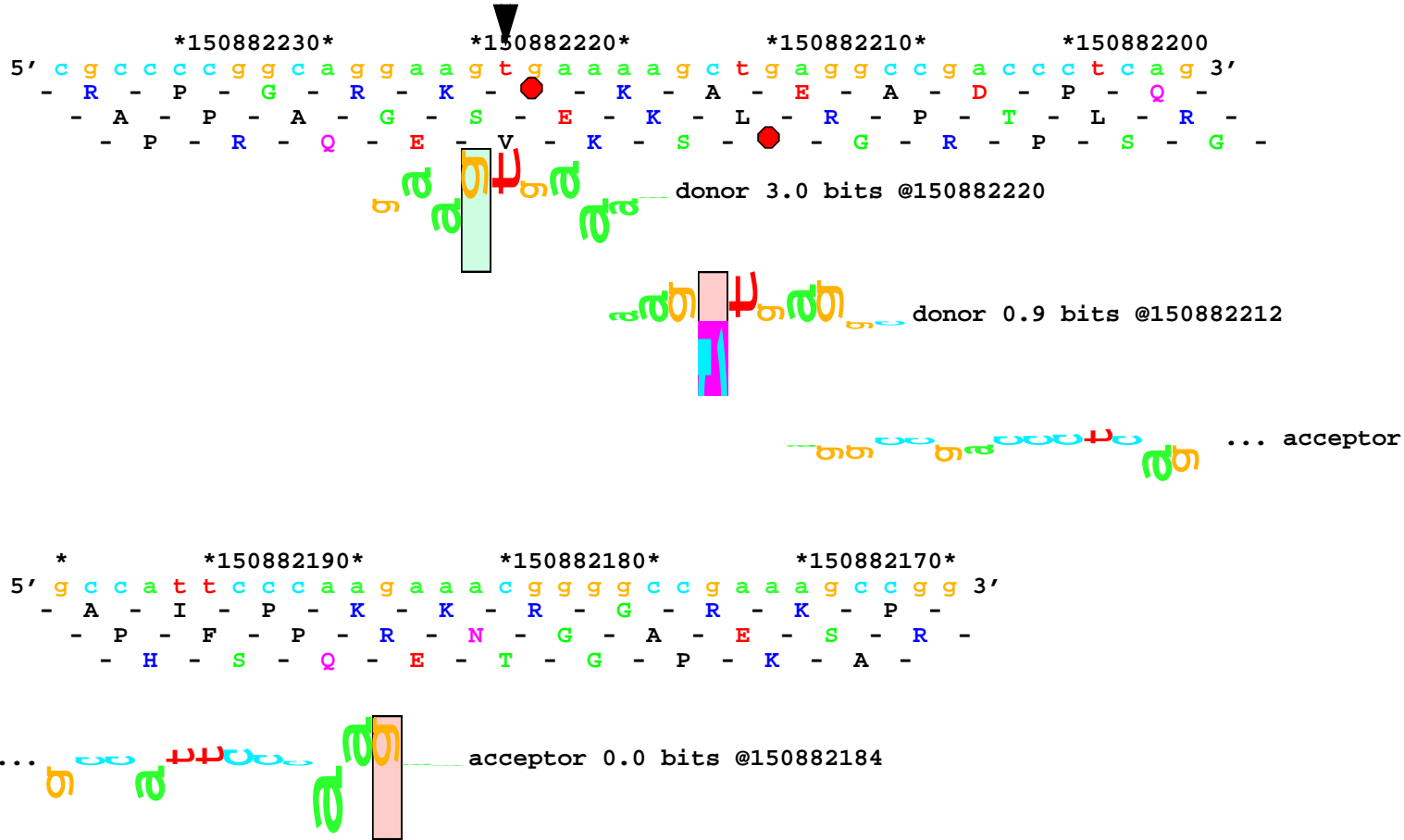
5' g g t g g g g c c a c c a c a t c c a c c c a g g t c a t g g t g a t c a a a 3'

- G - G - A - T - T - S - T - Q - V - M - V - I - K -

- V - G - P - P - H - P - P - R - S - W - S - N -

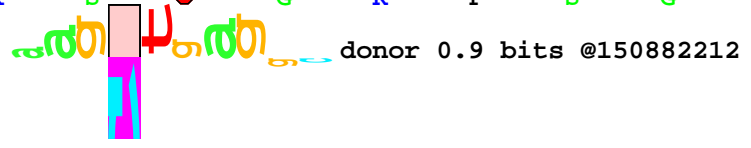
- W - G - H - H - I - H - P - G - H - G - D - Q - T -



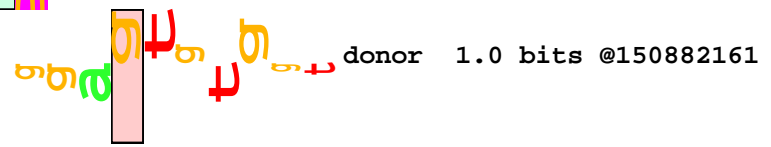
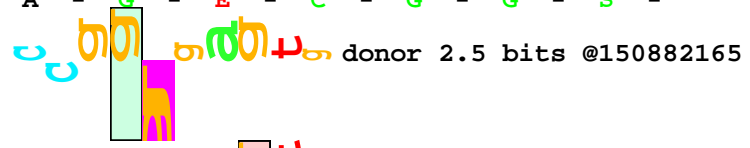


piece 13, p1, piece 1

* *150882220* *150882210* *150882200* *150882190
5' g g c a g g a a g c g a a a a g c t g a g g c c g a c c c t c a g g c c a t t 3'
- G - R - K - R - K - A - E - A - D - P - Q - A - I -
- A - G - S - E - K - L - R - P - T - L - R - P - F -
- Q - E - A - K - S - G - R - P - S - G - H - S -



* *150882180* *150882170* *150882160*
5' c c c a a g a a a c g g g g c c g a a a g c c g g g g a g t g t g g t g g c a 3'
- P - K - K - R - G - R - K - P - G - S - V - V - A -
- P - R - N - G - A - E - S - R - G - V - W - W - Q -
- Q - E - T - G - P - K - A - G - E - C - G - G - S -





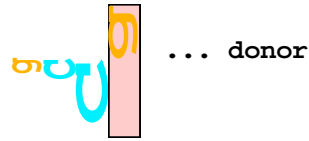
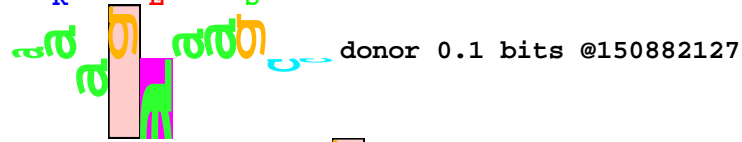
150882150 *150882140* *150882130* *150882120*

5' g c c g c t g c c g c c g a g g c c a a a a a g a a a g c c g 3'

- A - A - A - A - E - A - K - K - K - A -

- P - L - P - P - R - P - K - R - K - P -

- R - C - R - R - G - Q - K - E - S -



... donor 1.3 bits @150882156

piece 14, p1.g150882174a, 808C>T g150882174a

* *150882220* *150882210* *150882200* *150882190*

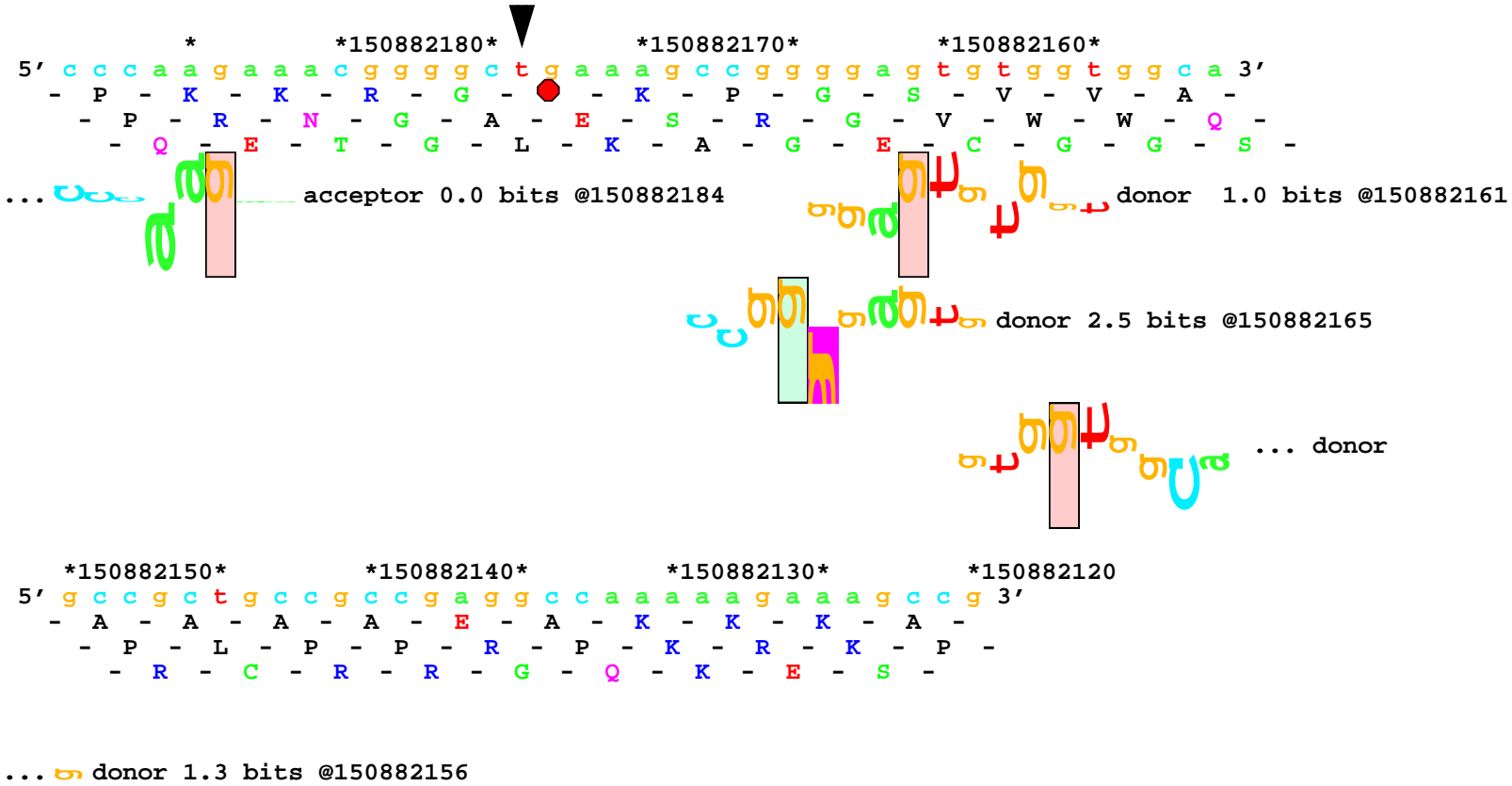
5' g g c a g g a a g c g a a a a g c t g a g g c c g a c c c t c a g g c c a t t 3'

- G - R - K - R - K - A - E - A - D - P - Q - A - I -

- A - G - S - E - K - L - R - P - T - L - R - P - F -

- Q - E - A - K - S - G - R - P - S - G - H - S -





piece 15, pl, piece 1

* *150882150* *150882140* *150882130* *150882120*

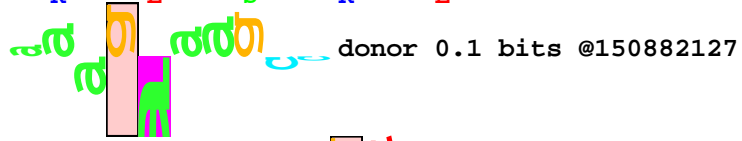
5' g t g g c a g c c g c t g c c g c c g a g g c c a a a a g a a a g c c g t g 3'

- V - A - A - A - A - A - A - E - A - K - K - K - A - V -

- W - Q - P - L - P - P - R - P - K - R - K - P -

- G - S - R - C - R - R - G - Q - K - E - S - R - E -

... donor 1.0 bits @150882161



... donor 1.3 bits @150882156

... donor

* *150882110* *150882100* *150882090* *150882080*

5' a a g g a g t c t t c t a t c c g a t c t g t g c a g g a g a c c g t a c t c 3'

- K - E - S - S - I - R - S - V - Q - E - T - V - L -

- R - S - L - L - S - D - L - C - R - R - P - Y - S -

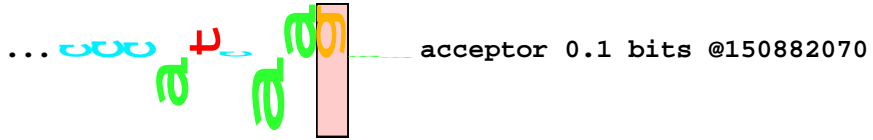
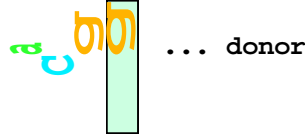
- G - V - F - Y - P - I - C - A - G - D - R - T - P -



... donor 0.8 bits @150882120

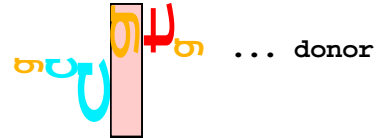
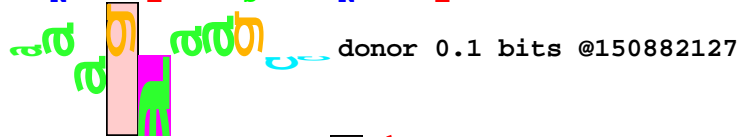
... acceptor

* *150882070* *150882060* *150882050
5' c c c a t c a a g a a g c g c a a g a c c c g g g a g a c g g 3'
- P - I - K - K - R - K - T - R - E - T -
- P - S - R - S - A - R - P - G - R - R -
- H - Q - E - A - Q - D - P - G - D -



piece 16, pl.g150882102a, 880C>T g150882102a

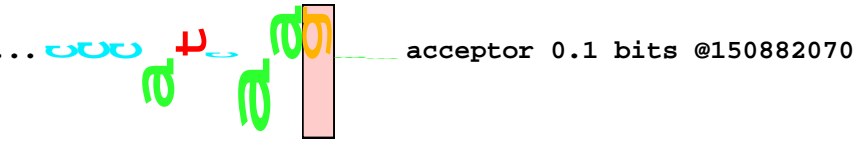
* *150882150* *150882140* *150882130* *150882120
5' g t g g c a g c c g c t g c c g c c g a g g c c a a a a a g a a a g c c g t g 3'
- V - A - A - A - A - A - A - E - A - K - K - K - A - V -
- W - Q - P - L - P - P - R - P - K - R - K - P - ● -
- G - S - R - C - R - R - G - Q - K - E - S - R - E -



* 150882110* 150882100* 150882090* 150882080
 5' a a g g a g t c t t c t a t c t g a t c t g t g c a g g a g a c c g t a c t c 3'
 - K - E - S - S - I - S - V - Q - E - T - V - L -
 - R - S - L - L - S - D - L - C - R - R - P - Y - S -
 - G - V - F - Y - L - I - C - A - G - D - R - T - P -



* 150882070* 150882060* 150882050
 5' c c c a t c a a g a a g c g c a a g a c c c g g g a g a c g g 3'
 - P - I - K - K - R - K - T - R - E - T -
 - P - S - R - S - A - R - P - G - R - R -
 - H - Q - E - A - Q - D - P - G - D -



piece 17, pl, piece 1

150882650 *150882640* *150882630* *150882620*

5' g g a g a g c c t c t a a t t g t t c c t t g t g t c t t t c t g t t t g t c 3'

- G - E - P - L - I - V - P - C - V - F - L - F - V -

- E - S - L - L - L - F - L - V - S - F - C - L - S -

- R - A - S - N - C - S - L - C - L - S - V - C - P -



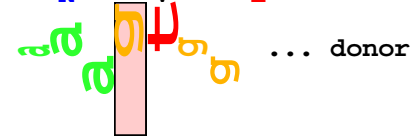
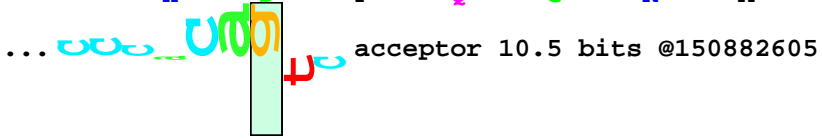
150882610 *150882600* *150882590* *150882580*

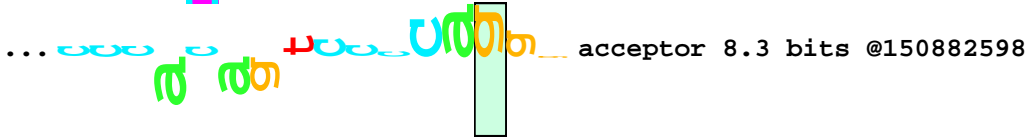
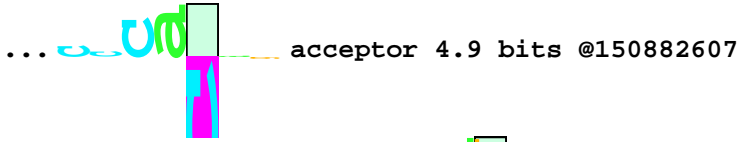
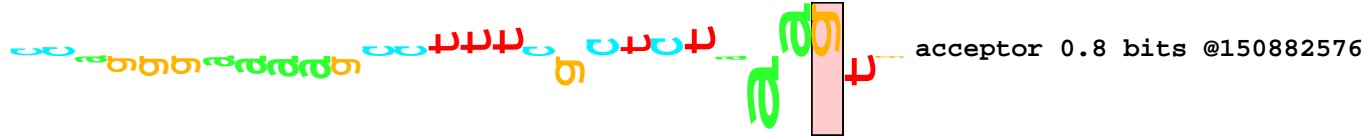
5' c c c a c a g t c c c c a g g g a a a a g c c t t t c g c t c t a a a g t g g 3'

- P - T - V - P - R - E - K - P - F - A - L - K - W -

- P - Q - S - P - G - K - S - L - S - L - S - G -

- H - S - P - Q - G - K - A - F - R - S - K - V - E -





150882570 *150882560* *150882550* *150882540*
 5' a g t t g a t t g c g t a c t t c g a a a a g g t a g g c g a c a c a t c c c 3'
 - S - L - R - T - S - K - R - A - T - H - P -
 - V - D - C - V - L - R - K - G - R - R - H - I - P -
 - L - I - A - Y - F - E - K - V - G - D - T - S - L -



150882530 *150882520* *150882510* *150882500*
 5' t g g a c c c t a a t g a t t t t g a c t t c a c g g t a a c t g g g a g a g 3'
 - W - T - L - M - I - L - T - S - R - L - G - E -
 - G - P - F - L - H - G - N - W - E - R -
 - D - P - N - D - F - D - F - T - V - T - G - R - G -



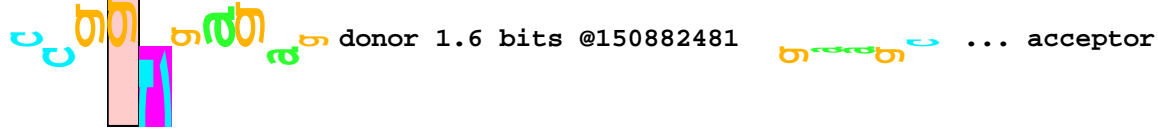
150882490 *150882480* *150882470* *150882460

5' g g a g c c c c t c c c g g c g a g a g c a g a a a c c a c c t a a g a a g c 3'

- G - A - P - P - G - E - S - R - N - H - L - R - S -

- E - P - L - P - A - R - A - E - T - T - ● - E - A -

- S - P - S - R - R - E - Q - K - P - P - K - K - P -



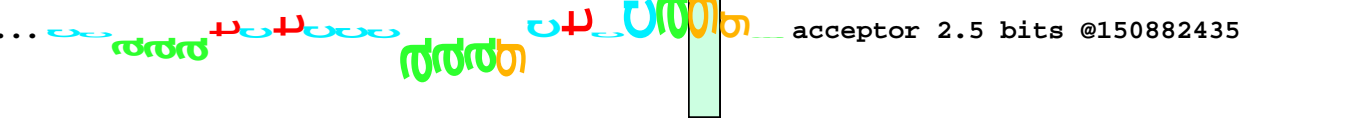
* *150882450* *150882440* *150882430* *150882420

5' c c a a a t c t c c c a a a g c t c c a g g a a c t g g c a g a g g c c g g g 3'

- P - N - L - P - K - L - Q - E - L - A - E - A - G -

- Q - I - S - Q - S - S - R - N - W - Q - R - P - G -

- K - S - P - K - A - P - G - T - G - R - G - R - G -



* *150882410* *150882400* *150882390* *150882380

5' g a c g c c c c a a a g g g a g c g g c a c c a c g a g a c c c a a g g c g g g 3'

- D - A - P - K - G - A - A - P - R - D - P - R - R -

- T - P - Q - R - E - R - H - H - E - T - Q - G - G -

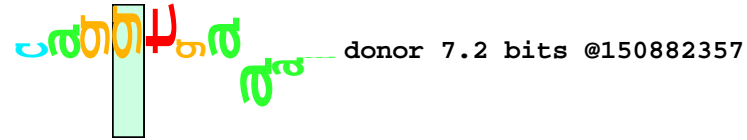
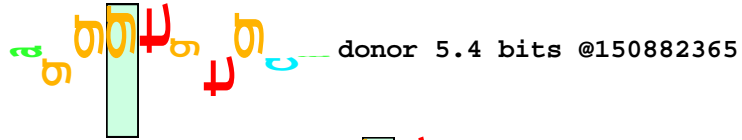
- R - P - K - G - S - G - T - T - R - P - K - A - A -

* *150882370* *150882360* *150882350* *150882340

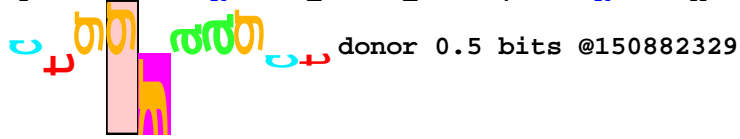
5' c c a c g t c a g a g g g t g t g c a g g t g a a a a g g g t c c t g g a g a 3'

- P - R - Q - R - V - C - R - ● - K - G - S - W - R -

- H - V - R - G - C - A - G - E - K - G - P - G - E -
- T - S - E - G - V - Q - V - K - R - V - L - E - K -

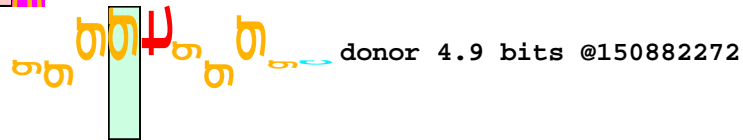
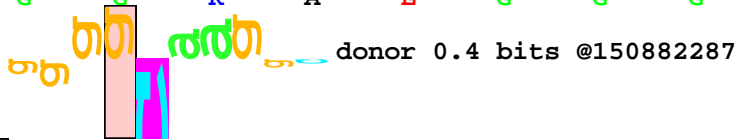


* 150882330* 150882320* 150882310* 150882300
5' a a a g t c c t g g g a a g c t c c t t g t c a a g a t g c c t t t t c a a a 3'
- K - V - L - G - S - S - L - S - R - C - L - F - K -
- K - S - W - E - A - P - C - Q - D - A - F - S - N -
- S - P - G - K - L - L - V - K - M - P - F - Q - T -

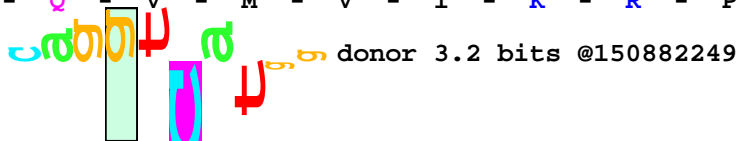


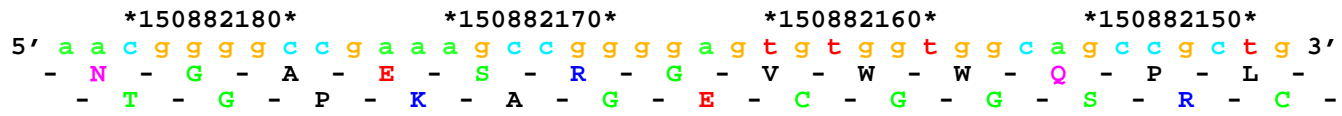
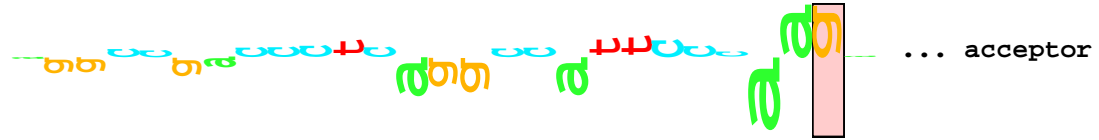
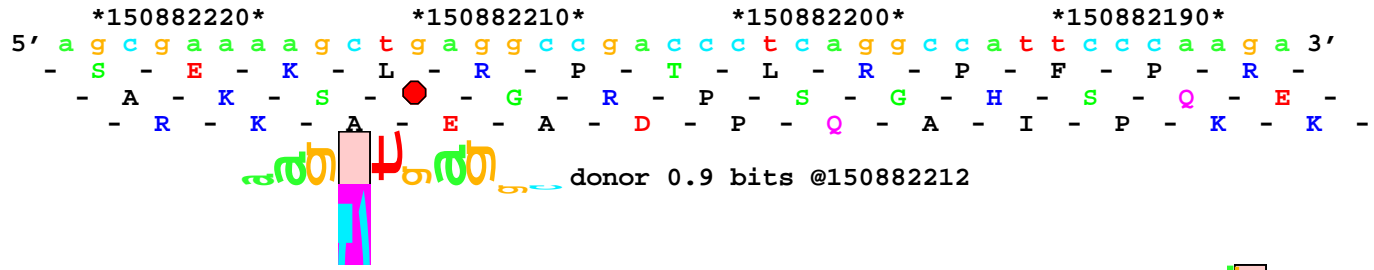
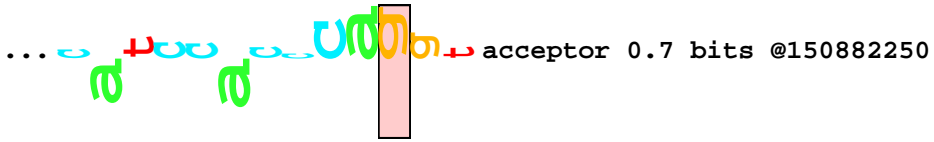
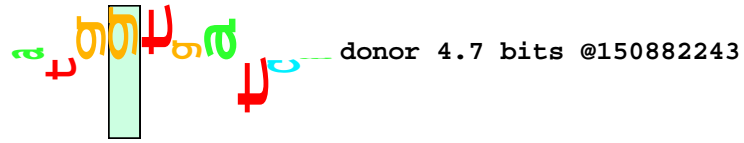
* 150882290* 150882280* 150882270*
5' c t t c g c c a g g g g g c a a g g c t g a g g g g g g t g g g g c c a c c a 3'

- L - R - Q - G - A - R - L - R - G - V - G - P - P -
 - F - A - R - G - Q - G - G - G - W - G - H - H -
 - S - P - G - G - K - A - E - G - G - G - A - T - T -

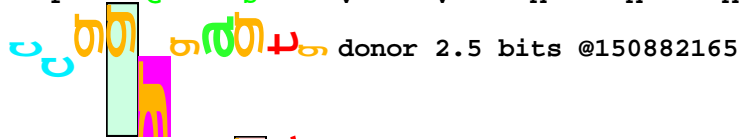


150882260 *150882250* *150882240* *150882230*
 5' c a t c c a c c c a g g t c a t g g t g a t c a a a c g c c c c g g c a g g a 3'
 - H - P - P - R - S - W - S - N - A - P - A - G -
 - I - H - P - G - H - G - D - Q - T - P - R - Q - E -
 - S - T - Q - V - M - V - I - K - R - P - G - R - K -

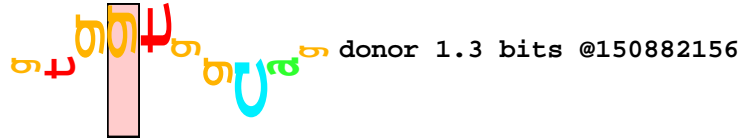
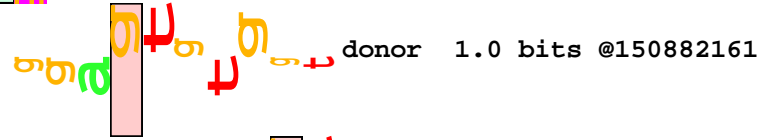




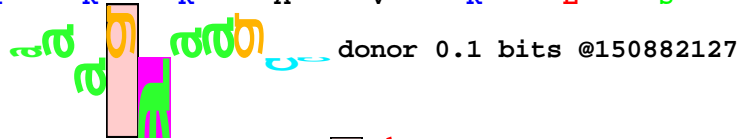
- 31 -
- R - G - R - K - P - G - S - V - V - A - A - A - A -



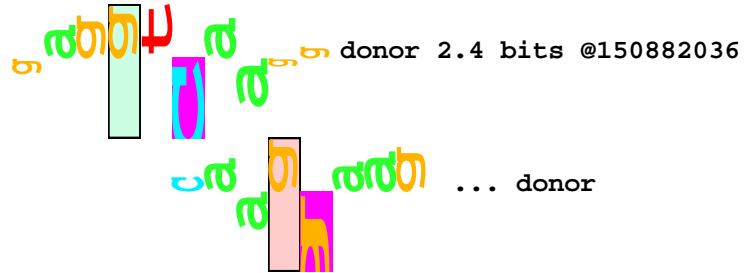
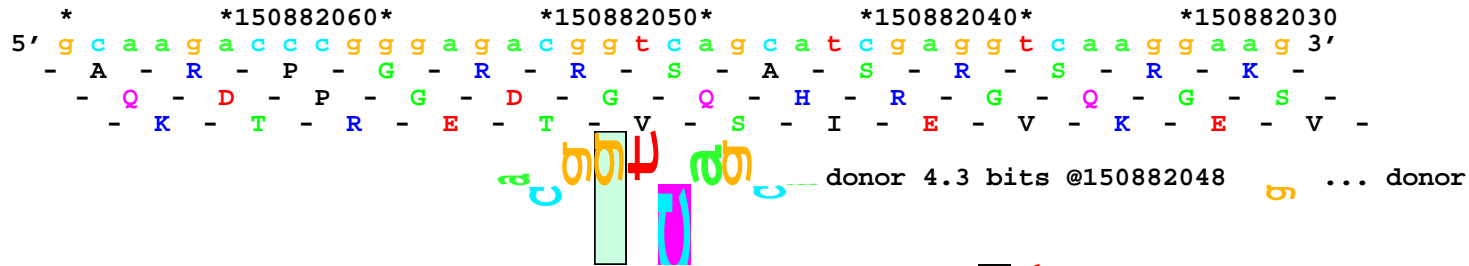
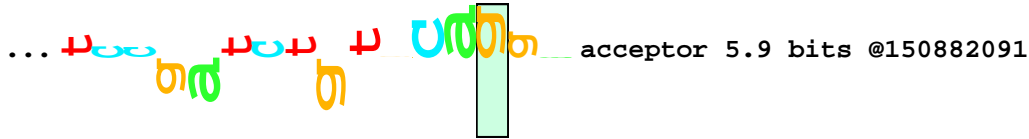
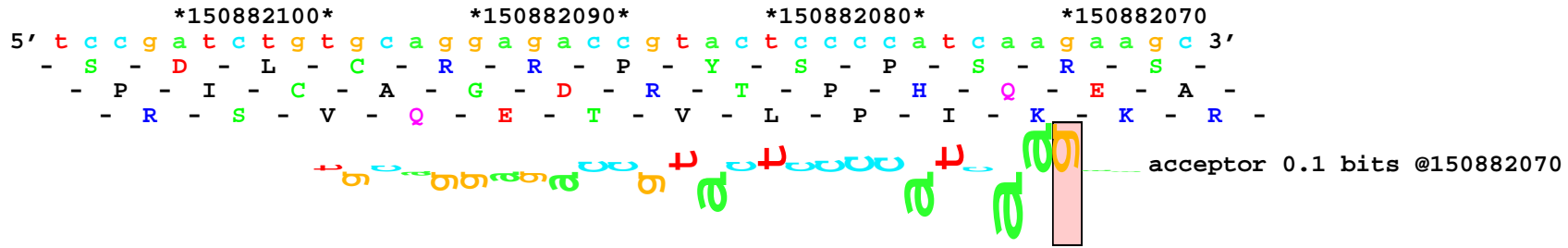
... acceptor 0.0 bits @150882184

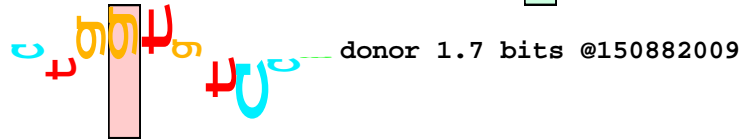
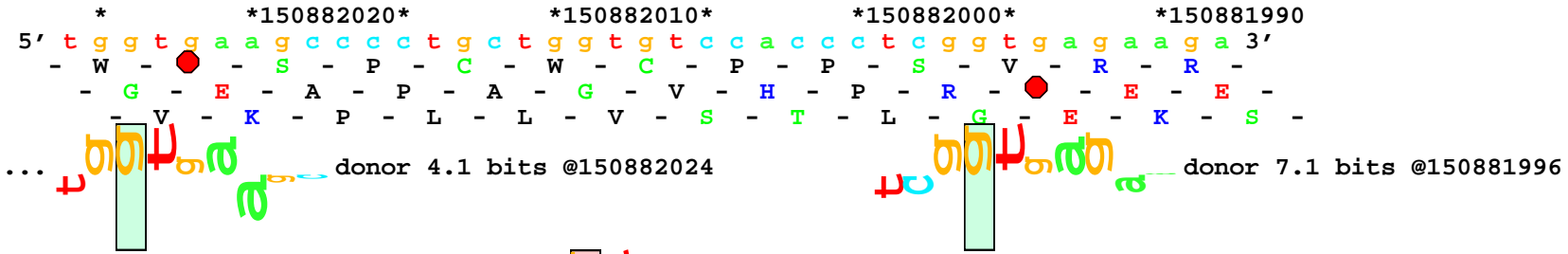
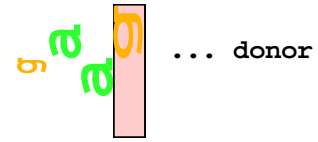


150882140 *150882130* *150882120* *150882110*
5' c c g c c g a g g c c a a a a a g a a a g c c g t g a a g g a g t c t t c t a 3'
- P - P - R - P - K - R - K - P - R - S - L - L -
- R - R - G - Q - K - E - S - R - E - G - V - F - Y -
- A - E - A - K - K - K - A - V - K - E - S - S - I -



... acceptor

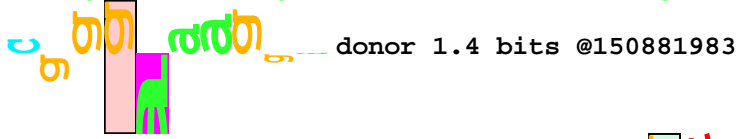




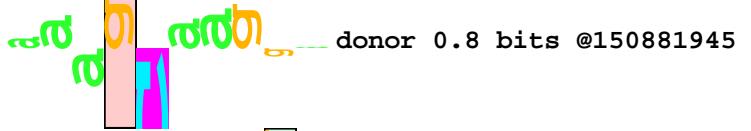
... donor 1.9 bits @150882031

... donor 0.4 bits @150882027

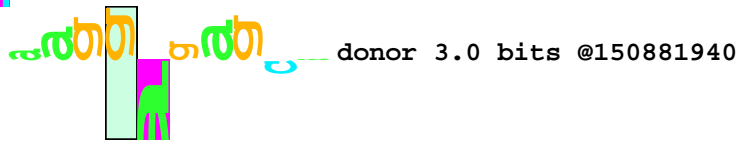
* *150881980* *150881970* *150881960* *150881950
5' g c g g g a a a g g a c t g a a g a c c t g t a a g a g c c c t g g g c g g a 3'
- A - G - K - D - R - P - V - R - A - L - G - G -
- R - E - R - T - E - D - L - E - P - W - A - E -
- G - K - G - L - K - T - C - K - S - P - G - R - K -



* *150881940* *150881930* *150881920* *150881910
5' a a a g c a a g g a g a g c a g c c c c a a g g g g c g c a g c a g c a g c g 3'
- K - A - R - R - A - A - P - R - G - A - A - A - A -
- K - Q - G - E - Q - P - Q - G - A - Q - Q - Q - R -
- S - K - E - S - S - P - K - G - R - S - S - S - A -

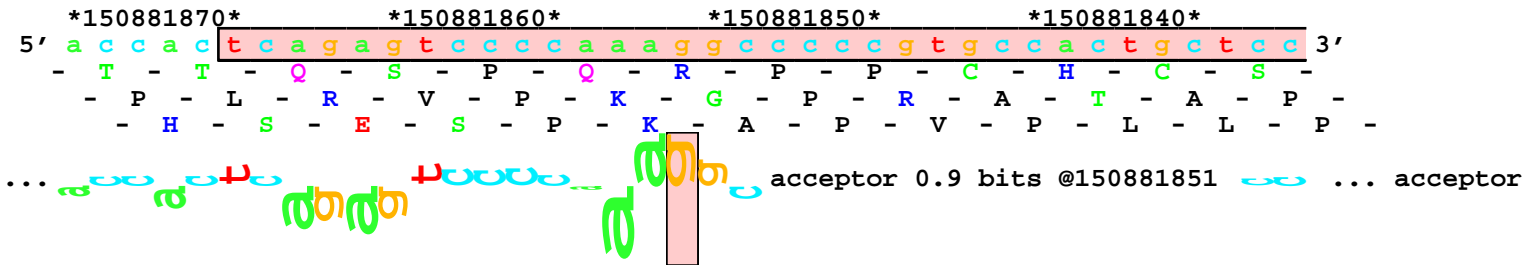
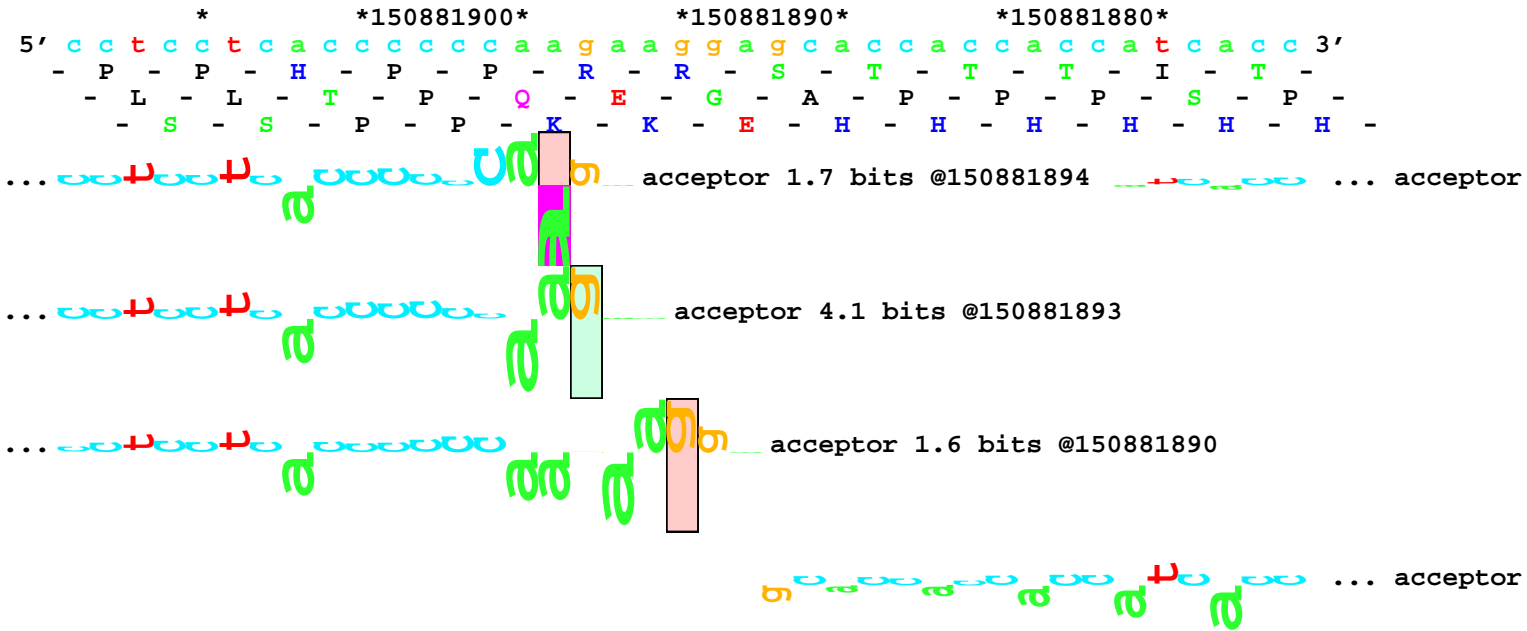


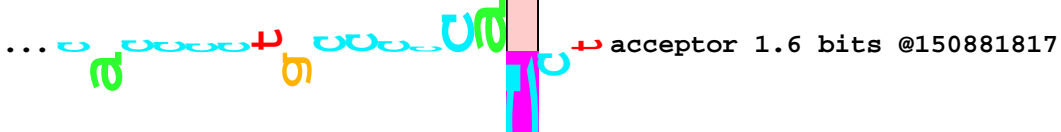
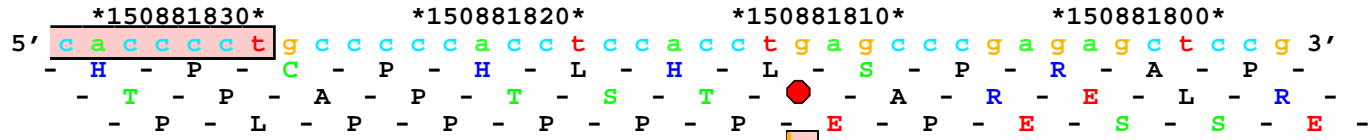
... acceptor



... acceptor

... acceptor







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*150881790*           *150881780*
5' a g g a c c c c a c c a g c c c c c c t g a 3'
  - R - T - P - P - A - P - L -
  - G - P - H - Q - P - P - ● -
  - D - P - T - S - P - P -

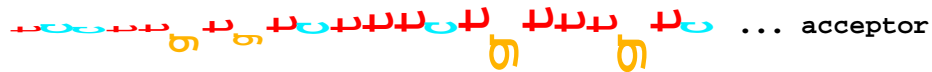
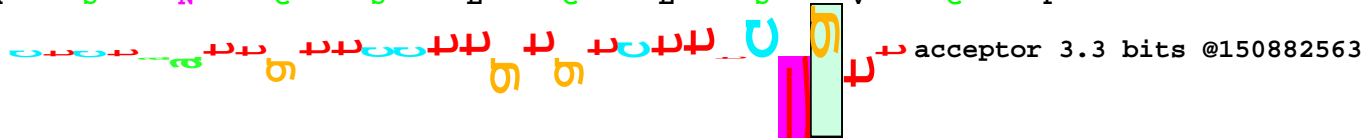
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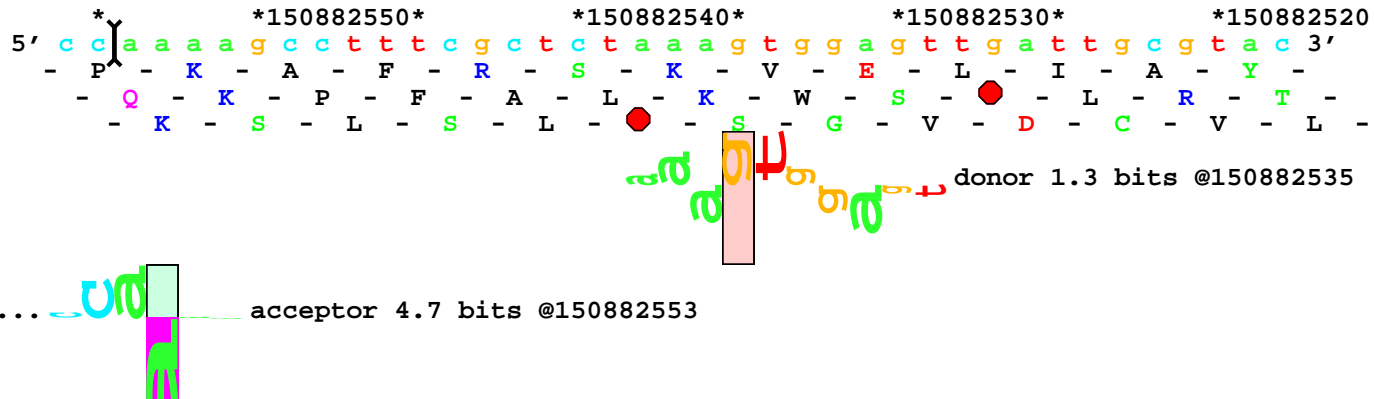
piece 18, p1.d150881825,150881865.d150882596,150882609, 1157del141@386del114 d150881825,150881865.d150882596,150882609

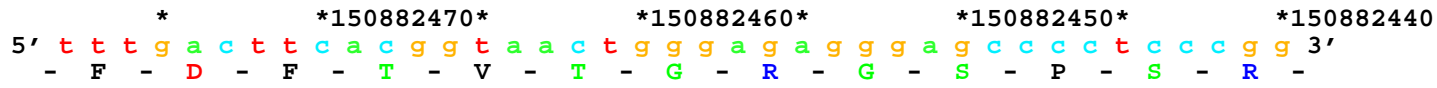
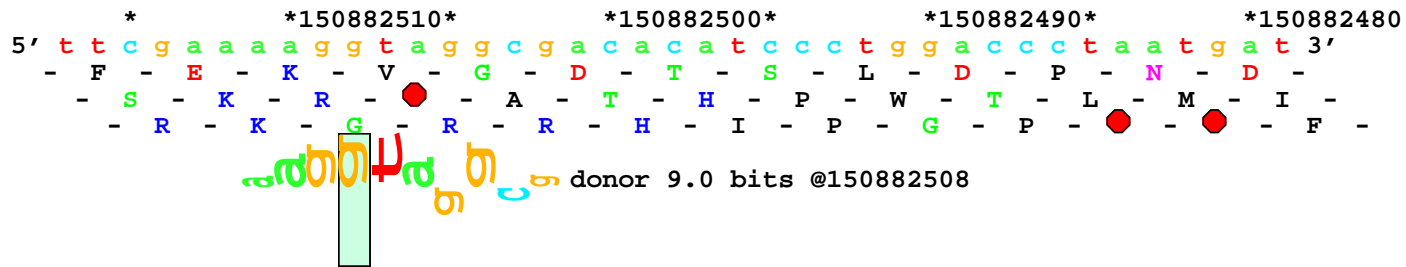
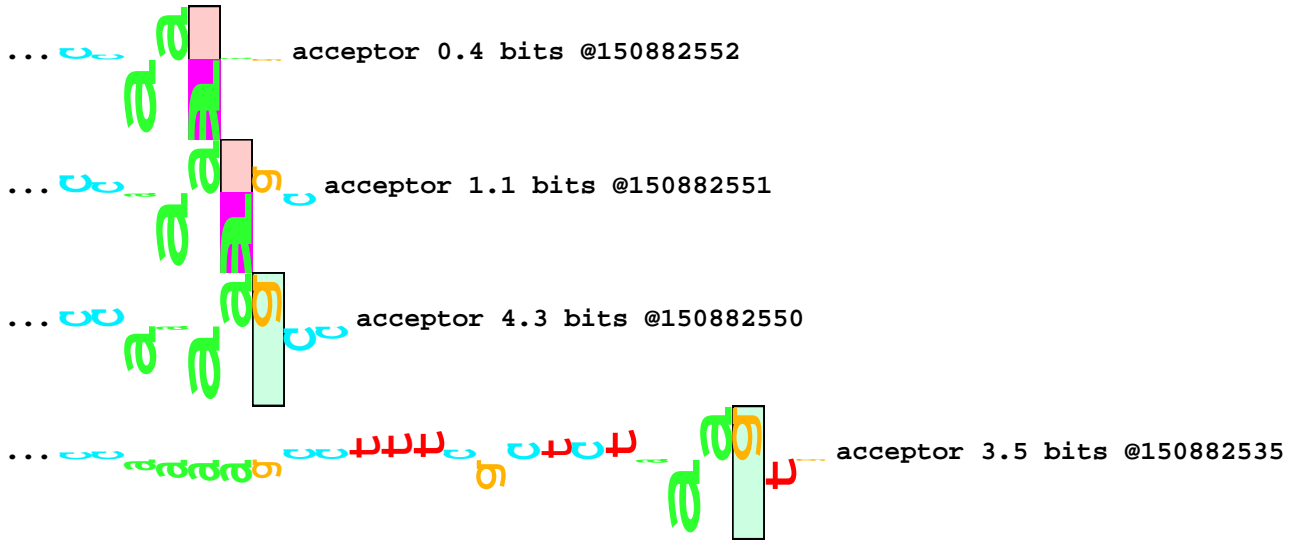
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*           *150882590*           *150882580*           *150882570*           *150882560
5' g g a g a g c c t c t a a t t g t t c c t t g t g t c t t t c t g t t t g t c 3'
  - G - E - P - L - I - V - P - C - V - F - L - F - V -
  - E - S - L - ● - L - F - L - V - S - F - C - L - S -
  - R - A - S - N - C - S - L - C - L - S - V - C - P -

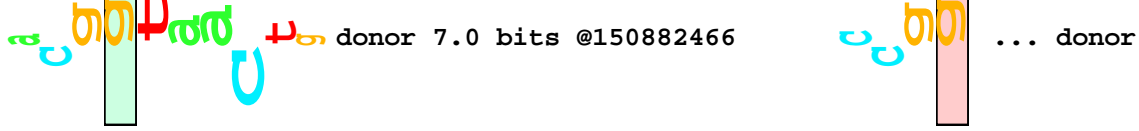
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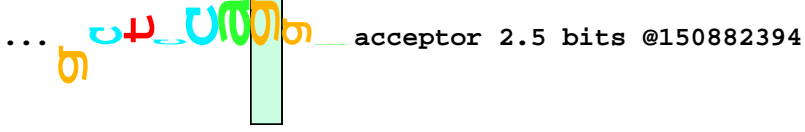
- L - T - S - R - L - G - E - G - A - P - P - G -
- L - H - N - W - E - R - E - P - L - P - A -



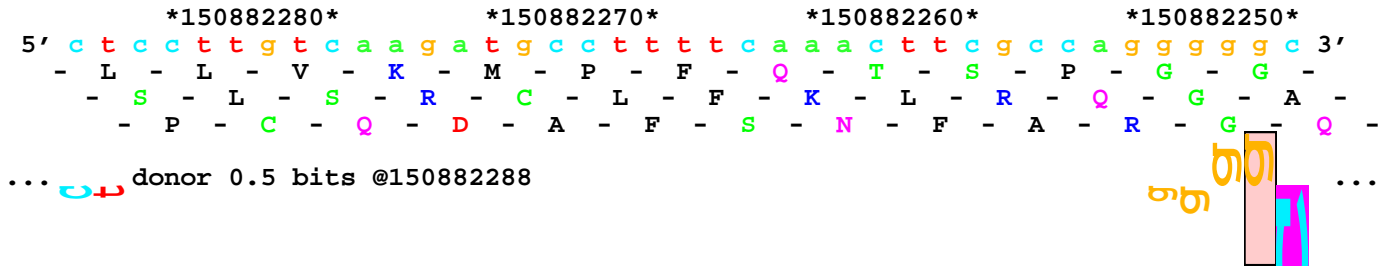
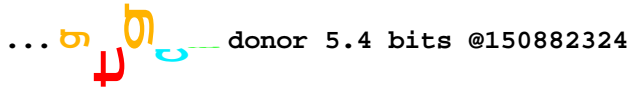
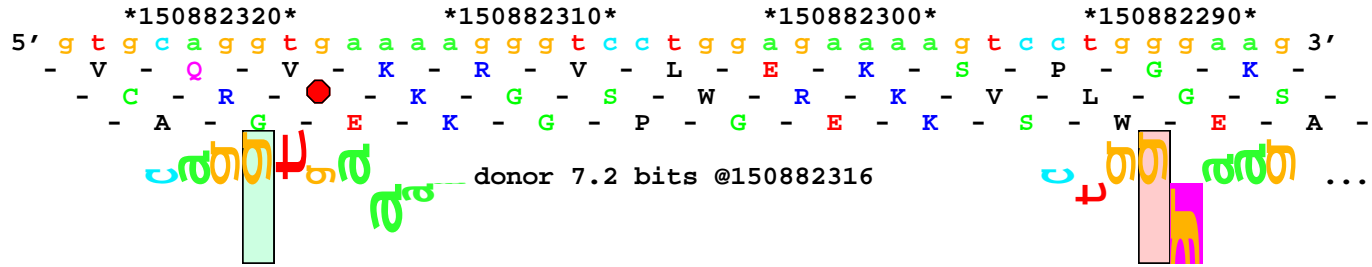
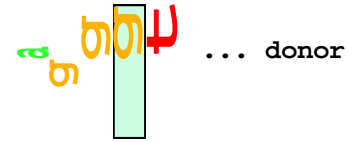
150882430 *150882420* *150882410*
5' c g a g a g c a g a a a c c a c c t a a g a a g c c c a a a t c t c c c a a a 3'
- R - E - Q - K - P - P - K - K - P - K - S - P - K -
- E - S - R - N - H - L - R - S - P - N - L - P - K -
- R - A - E - T - T - E - A - Q - I - S - Q - S -



150882400 *150882390* *150882380* *150882370*
5' g c t c c a g g a a c t g g c a g a g g c c g g g g a c g c c c c a a a g g g 3'
- A - P - G - T - G - R - G - R - G - R - P - K - G -
- L - Q - E - L - A - E - A - G - D - A - P - K - G -
- S - R - N - W - Q - R - P - G - T - P - Q - R - E -



150882360 *150882350* *150882340* *150882330*
5' a g c g g c a c c a c g a g a c c c a a g g c g g c c a c g t c a g a g g g t 3'
- S - G - T - T - R - P - K - A - A - T - S - E - G -
- A - A - P - R - D - P - R - R - P - R - Q - R - V -
- R - H - H - E - T - Q - G - G - H - V - R - G - C -





150882240 *150882230* *150882220* *150882210*

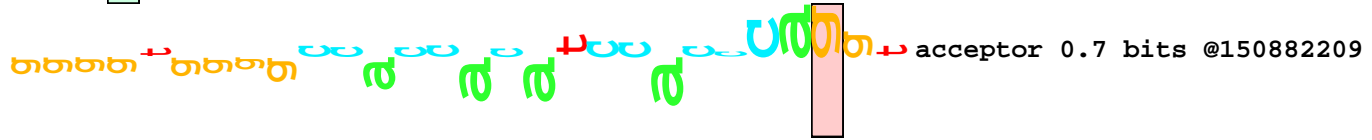
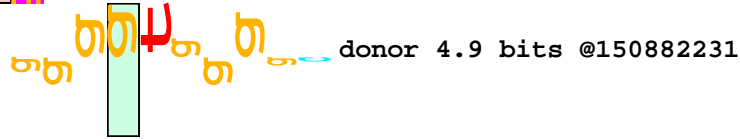
5' a a g g c t g a g g g g g g t g g g g c c a c c a c a t c c a c c c a g g t c 3'

- K - A - E - G - G - G - A - T - T - S - T - Q - V -

- R - L - R - G - V - G - P - P - H - P - P - R - S -

- G - ● - G - G - W - G - H - H - I - H - P - G - H -

... donor 0.4 bits @150882246 ... donor



* *150882200* *150882190* *150882180* *150882170*

5' a t g g t g a t c a a a c g c c c c g g c a g g a a g c g a a a a g c t g a g 3'

- M - V - I - K - R - P - G - R - K - R - K - A - E -

- W - ● - S - N - A - P - A - G - S - E - K - L - R -

... donor 3.2 bits @150882208 ... donor

- G - D - Q - T - P - R - Q - E - A - K - S - G -

... donor 4.7 bits @150882202 ... acceptor

* 150882160* 150882150* 150882140* 150882130*

5' g c c g a c c c t c a g g c c a t t c c c a a g a a a c g g g g c c g a a a g 3'

- A - D - P - Q - A - I - P - K - K - R - G - R - K -

- P - T - L - R - P - F - P - R - N - G - A - E - S -

- R - P - S - G - H - S - Q - E - T - G - P - K - A -

... donor 0.9 bits @150882171

... acceptor 0.0 bits @150882143

* 150882120* 150882110* 150882100* 150882090*

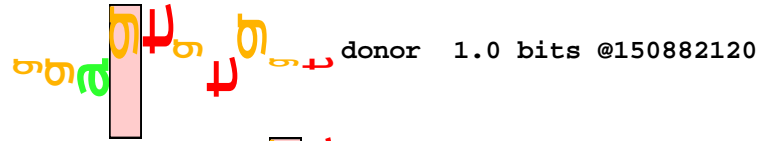
5' c c g g g g a g t g t g g t g g c a g c c g c t g c c g c c g a g g c c a a a 3'

- P - G - S - V - V - A - A - A - A - A - E - A - K -

- R - G - V - W - W - Q - P - L - P - P - R - P - K -

- G - E - C - G - G - S - R - C - R - R - G - Q - K -

... donor 2.5 bits @150882124 ... donor



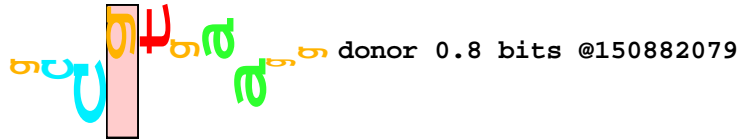
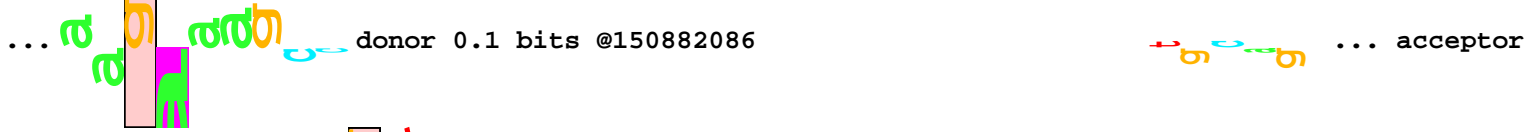
* 150882080* 150882070* 150882060* 150882050*

5' a a g a a a g c c g t g a a g g a g t c t t c t a t c c g a t c t g t g c a g 3'

- K - K - A - V - K - E - S - S - I - R - S - V - Q -

- R - K - P - R - S - L - L - S - D - L - C - R -

- E - S - R - E - G - V - F - Y - P - I - C - A - G -



* 150882040* 150882030* 150882020*

5' g a g a c c g t a c t c c c c a t c a a g a a g c g c a a g a c c c g g g a g 3'

- E - T - V - L - P - I - K - K - R - K - T - R - E -
 - R - P - Y - S - P - S - R - S - A - R - P - G - R -
 - D - R - T - P - H - Q - E - A - Q - D - P - G - D -

... acceptor 0.1 bits @150882029

... acceptor 5.9 bits @150882050

150882010 *150882000* *150881990* *150881980*

5' a c g g t c a g c a t c g a g g t c a a g g a a g t g g t g a a g c c c c t g 3'

- T - V - S - I - E - V - K - E - V - V - K - P - L -
 - R - S - A - S - R - S - R - K - W - - S - P - C -
 - G - Q - H - R - G - Q - G - S - G - E - A - P - A -

donor 4.3 bits @150882007 donor 4.1 bits @150881983

donor 2.4 bits @150881995

donor 1.9 bits @150881990

donor 0.4 bits @150881986

150881970 *150881960* *150881950* *150881940*
5' ctgggtgtccaccctcgggtgagaaagagcgggaaaggactg 3'
- L - V - S - T - L - G - E - K - S - G - K - G - L -
- W - C - P - P - S - V - R - R - A - G - K - D -
- G - V - H - P - R - E - E - R - E - R - T - E -

donor 1.7 bits @150881968

donor 1.4 bits @150881942

donor 7.1 bits @150881955

150881930 *150881920* *150881910* *150881900*
5' aagacctgt aagagccctcgggcgggaaaaagcaaggagagc 3'
- K - T - C - K - S - P - G - R - K - S - K - E - S -
- R - P - V - R - A - L - G - G - K - A - R - R - A -
- D - L - E - P - W - A - E - K - Q - G - E - Q -

donor 6.2 bits @150881925

... donor

donor 0.8 bits @150881904

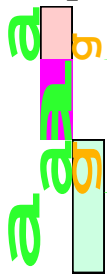

150881890 *150881880* *150881870* *150881860*
5' a g c c c c a a g g g g c g c a g c a g c a g c g c c t c c t c a c c c c c c 3'
- S - P - K - G - R - S - S - S - A - S - S - P - P -
- A - P - R - G - A - A - A - A - P - P - H - P - P -
- P - Q - G - A - Q - Q - Q - R - L - L - T - P - Q -

... donor 3.0 bits @150881899  ... acceptor

 ... acceptor

 ... acceptor

150881850 *150881840* *150881830* *150881820*
5' a a g a a g g a g c a c c a c c a c c c a t c a c c a c c a c g c c c c c a c c 3'
- K - K - E - H - H - H - H - H - H - H - A - P - T -
- R - R - S - T - T - T - I - T - T - T - P - P - P -
- E - G - A - P - P - P - S - P - P - R - P - H - L -


...  acceptor 1.7 bits @150881853  ... acceptor

...  acceptor 4.1 bits @150881852  ... acceptor

...  acceptor 1.6 bits @150881849

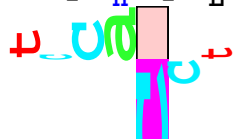
* *150881810* *150881800* *150881790* *150881780*

5' t c c a c c t g a g c c c g a g a g c t c c g a g g a c c c c a c c a g c c c 3'


- S - T -  - A - R - E - L - R - G - P - H - Q - P -

- P - P - E - P - E - S - S - E - D - P - T - S - P -

- H - L - S - P - R - A - P - R - T - P - P - A - P -

...  acceptor 1.0 bits @150881811

...  acceptor 1.4 bits @150881806

*
5' c c c t g a 3'
- P -  -
- P -
- L -

piece 19, p1, piece 1

* 150881580* 150881570* 150881560* 150881550*

5' t g c c a a g g c c a a a c a g a g a g g a g c c t g t g g a c a g c c g g a 3'

- C - Q - G - Q - T - E - R - S - L - W - T - A - G -

- A - K - A - K - Q - R - G - A - C - G - Q - P - D -

- P - R - P - N - R - E - E - P - V - D - S - R - T -

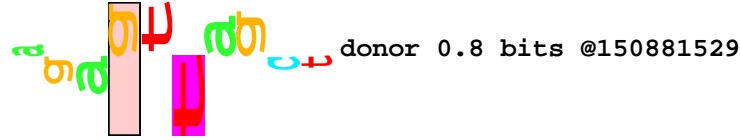
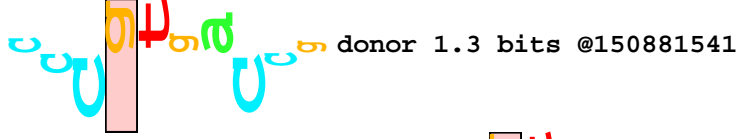
* 150881540* 150881530* 150881520* 150881510*

5' c g c c c g t g a c c g a g a g a g t t a g c t g a c t t t a c a c g g a g c 3'

- R - P - P - R - E - L - A - D - F - T - R - S -

- A - R - D - R - E - S - L - T - L - H - G - A -

- P - V - T - E - R - V - S - L - Y - T - E - R -



* 150881500* 150881490* 150881480*

5' g g a t t g c a a a g c a a a c c a a c a a g a a t a a a g g 3'

- G - L - Q - S - K - P - T - R - I - K -

- D - C - K - A - N - Q - Q - E - R -

- I - A - K - Q - T - N - K - N - K -

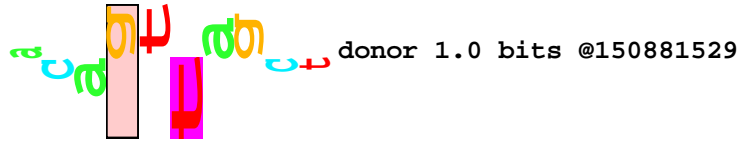
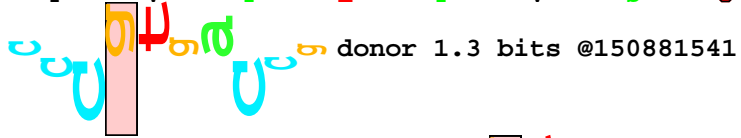
piece 20, p1.c150881531g, 1451G>C c150881531g

* 150881580* 150881570* 150881560* 150881550*

5' t g c c a a g g c c a a a c a g a g a g g a g c c t g t g g a c a g c c g g a 3'

- C - Q - G - Q - T - E - R - S - L - W - T - A - G -
 - A - K - A - K - Q - R - G - A - C - G - Q - P - D -
 - P - R - P - N - R - E - E - P - V - D - S - R - T -

* *150881540* *150881530* *150881520* *150881510
 5' c g c c c g t g a c c g a g a c a g t t a g c t g a c t t t a c a c g g a g c 3'
 - R - P - P - R - Q - L - A - D - F - T - R - S -
 - A - R - D - R - D - S - L - T - L - H - G - A -
 - P - V - T - E - T - V - S - L - Y - T - E - R -



* *150881500* *150881490* *150881480
 5' g g a t t g c a a a g c a a a c c a a c a a g a a t a a a g g 3'
 - G - L - Q - S - K - P - T - R - I - K -
 - D - C - K - A - N - Q - Q - E - R -
 - I - A - K - Q - T - N - K - N - K -