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# Compendium of overhangs

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There are **136** overhangs in this report. The restriction enzyme used in this compendium is **Bsal**.

Please see the Appendix on the last page for an explanation of details.



AAAA

TTTT

Extreme GC content: 0 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

K[NISRKMT]

[PAVISGRKLEQT\*]K

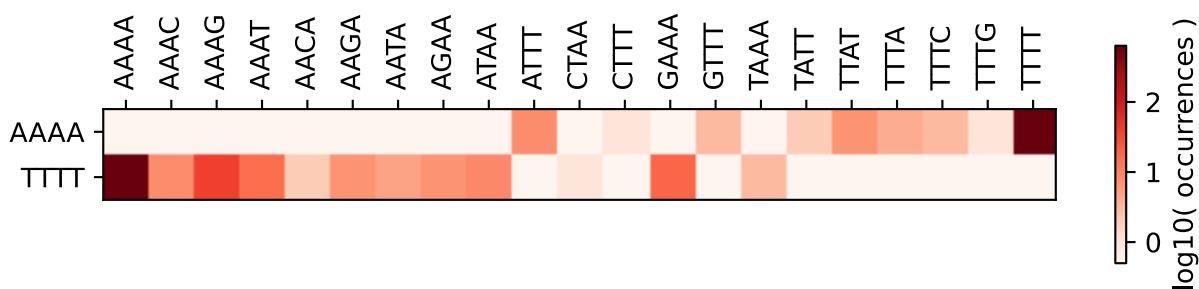
[EQK\*][NK]

F[YSWCLF\*]

[PDANVYSIGRCLHFT]F

[LIFV][LF]

Misannealing overhangs:





# AAAG

# CTTT

GC content: 25 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

K[ADVGE]

[PAVISGRKLEQT\*]K

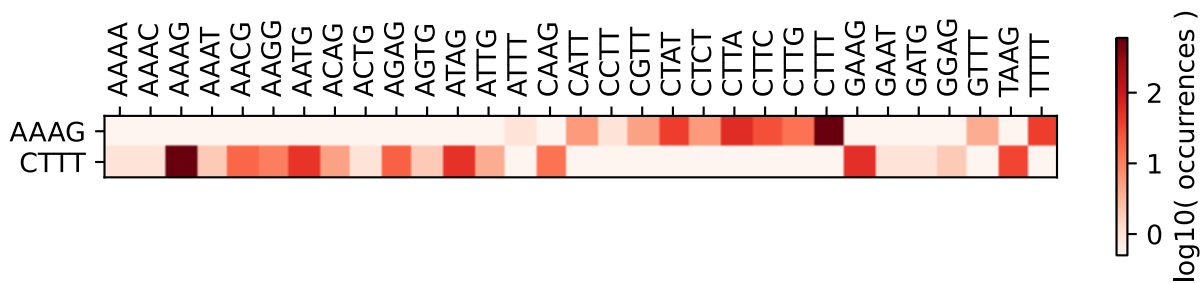
[EQK\*][SR]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]F

[PSAT][LF]

Misannealing overhangs:





# AAAT

# ATTT

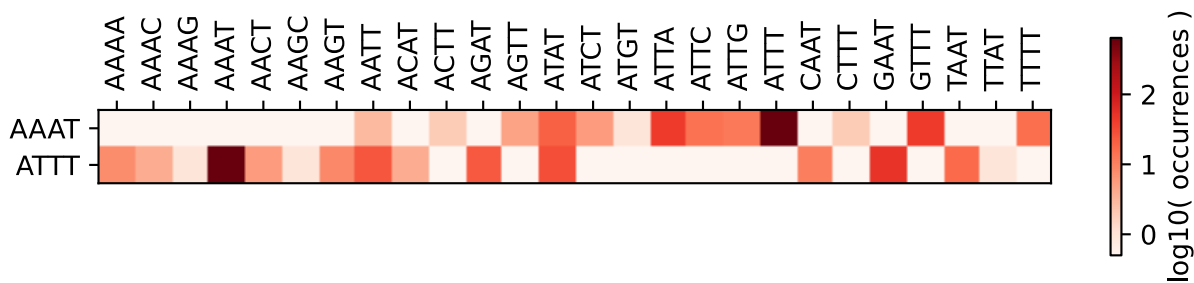
Extreme GC content: 0 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

K[YSWCLF\*]  
[PAVISGRKLEQT\*]N  
[EQK\*][IM]  
I[YSWCLF\*]  
[PAVISGRKLEQT\*]F  
[YDHN][LF]

Misannealing overhangs:





# AAGA

# TCTT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

K[NISRKMT]

[PAVISGRKLEQT\*]R

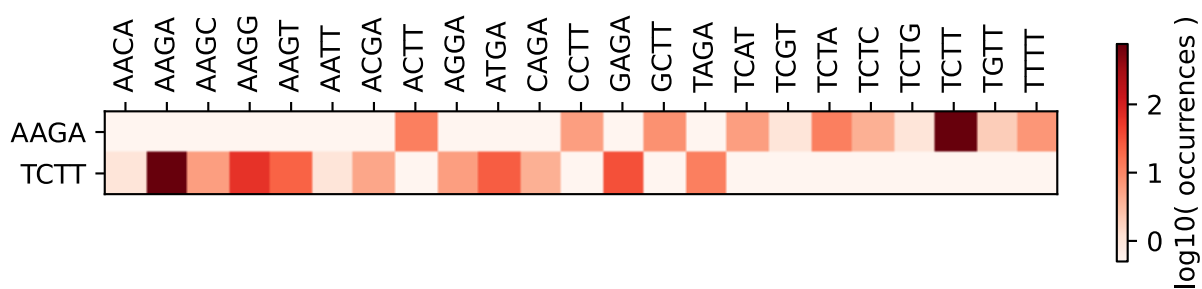
[EQK\*][ED]

S[YSWCLF\*]

[PDANVYSIGRCLHFT]L

[LIFV][LF]

Misannealing overhangs:





# AAGT

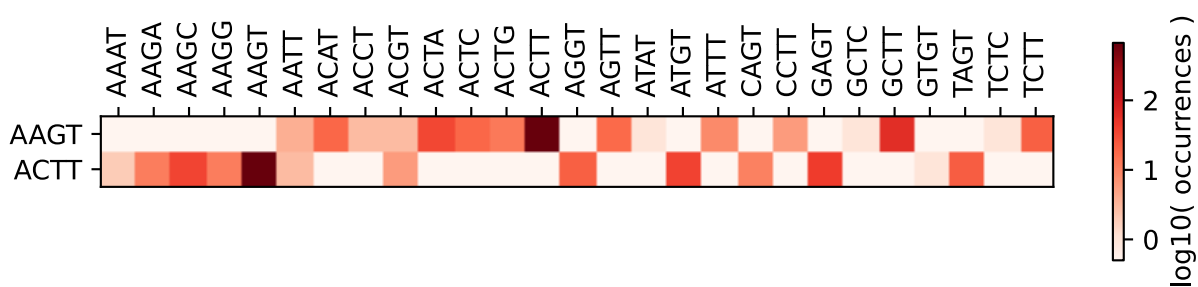
# ACTT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

K[YSWCLF\*]  
[PAVISGRKLEQT\*]S  
[EQK\*][V]  
T[YSWCLF\*]  
[PAVISGRKLEQT\*]L  
[YDHN][LF]

Misannealing overhangs:





# AATC

# GATT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

N[PRLHQ]

[PAVISGRKLEQT\*]I

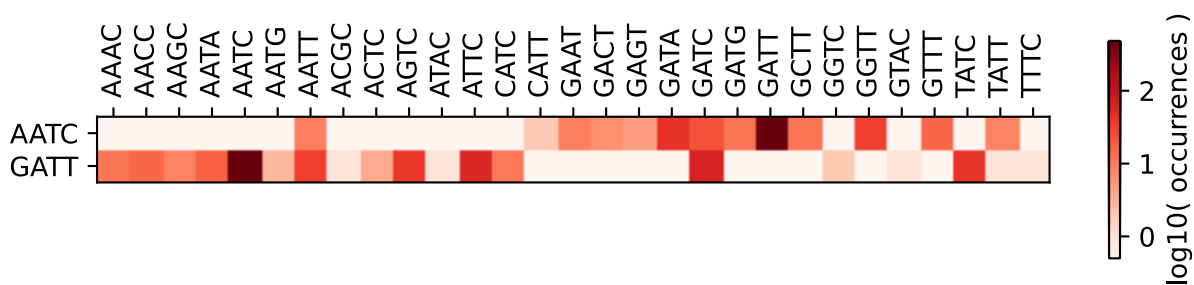
[EQK\*][S]

D[YSWCLF\*]

[PAVSGWRKLMEQT\*]I

[GR\*][LF]

Misannealing overhangs:





# AATT

# AATT

Extreme GC content: 0 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

N[YSWCLF\*]

[PAVISGRKLEQT\*]I

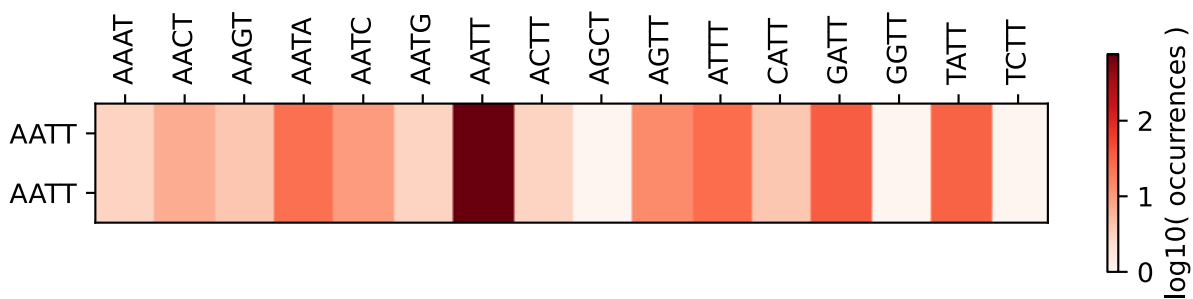
[EQK\*][LF]

N[YSWCLF\*]

[PAVISGRKLEQT\*]I

[EQK\*][LF]

Misannealing overhangs:







# ACAA

# TTGT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

T[NISRKMT]

[PAVISGRKLEQT\*]Q

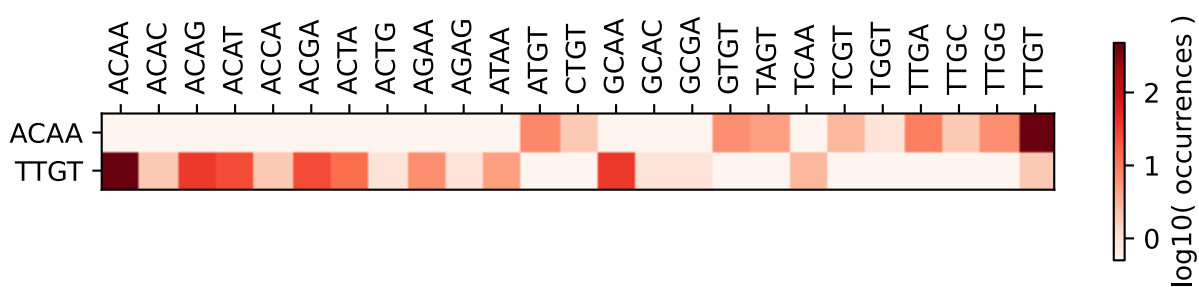
[YDHN][NK]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]C

[LIFV][V]

Misannealing overhangs:





# ACAC

# GTGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[PRLHQ]

[PAVISGRKLEQT\*]H

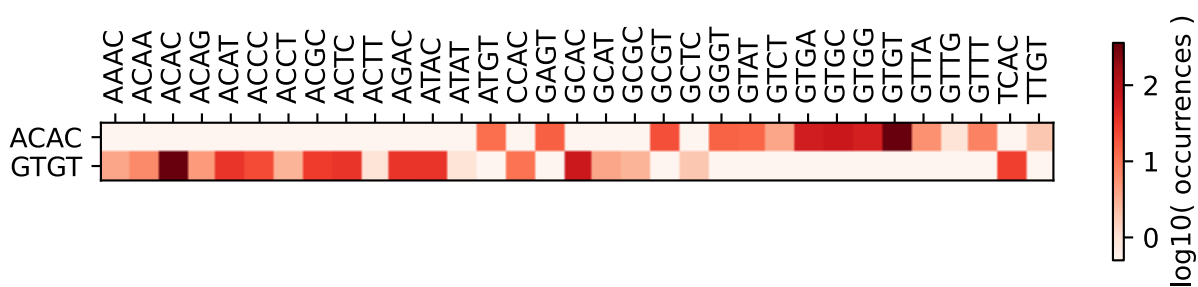
[YDHN][T]

V[YSWCLF\*]

[PAVSGWRKLMEQT\*]C

[CSGR][V]

Misannealing overhangs:





# ACAG

# CTGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[ADVGE]

[PAVISGRKLEQT\*]Q

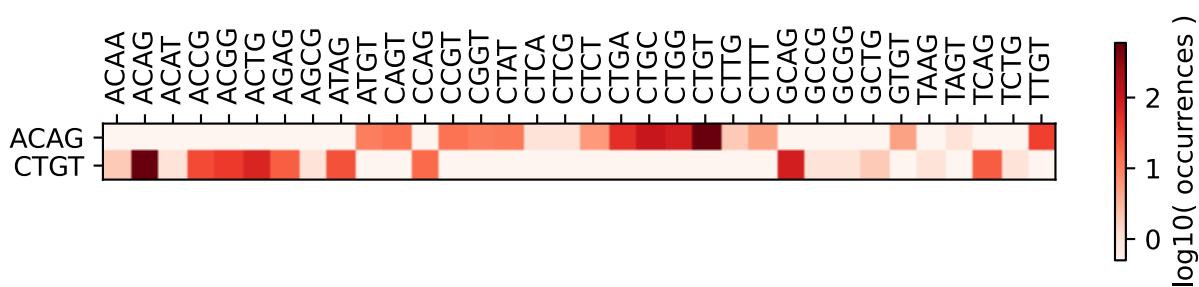
[YDHN][SR]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]C

[PSAT][V]

Misannealing overhangs:





# ACCG

# CGGT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

T[ADVGE]

[PAVISGRKLEQT\*]P

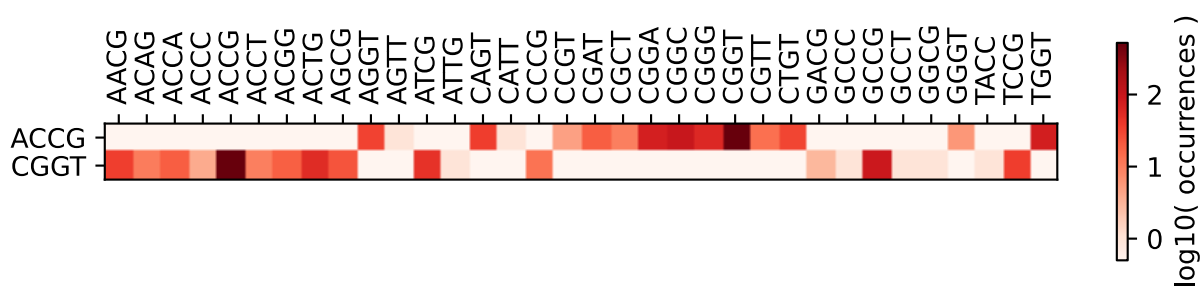
[YDHN][R]

R[YSWCLF\*]

[PDANVYSIGRCLHFT]G

[PSAT][V]

Misannealing overhangs:





# ACGA

# TCGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[NISRKMT]

[PAVISGRKLEQT\*]R

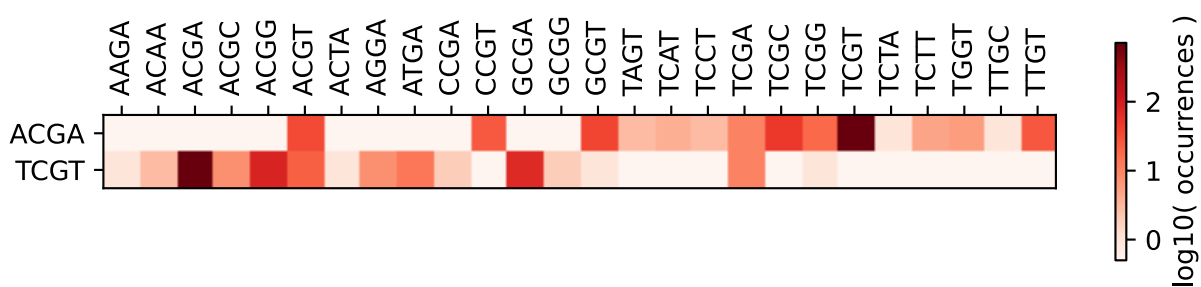
[YDHN][ED]

S[YSWCLF\*]

[PDANVYSIGRCLHFT]R

[LIFV][V]

Misannealing overhangs:





# ACGT

# ACGT

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

T[YSWCLF\*]

[PAVISGRKLEQT\*]R

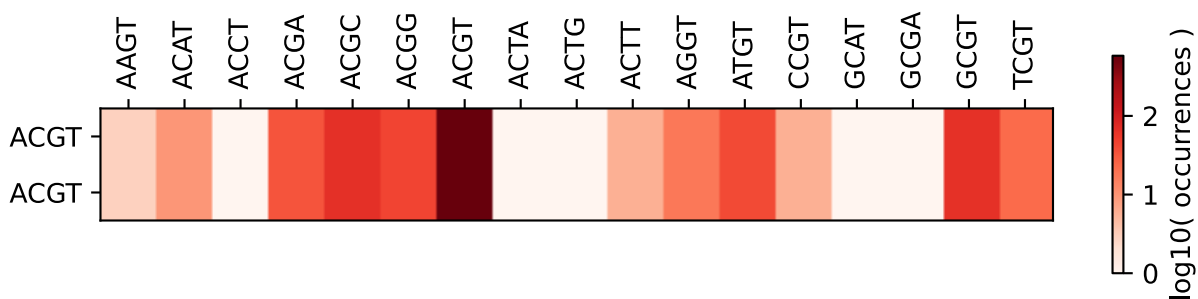
[YDHN][V]

T[YSWCLF\*]

[PAVISGRKLEQT\*]R

[YDHN][V]

Misannealing overhangs:





# ACTA

# TAGT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

T[NISRKMT]

[PAVISGRKLEQT\*]L

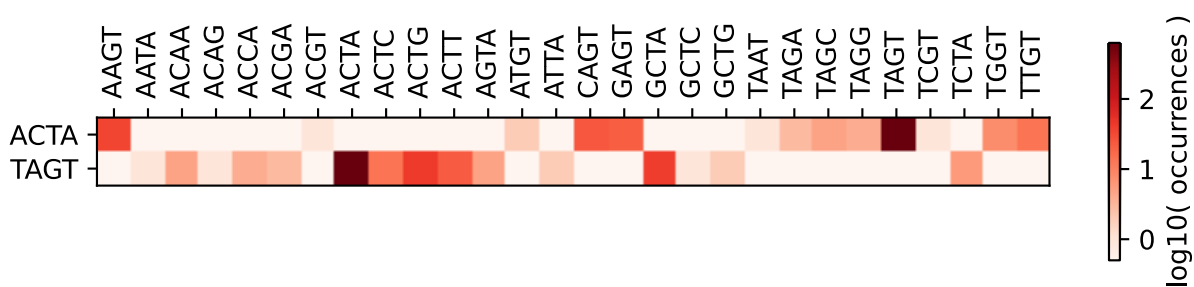
[YDHN][Y\*]

\*[YSWCLF\*]

[PDANVYSIGRCLHFT]S

[LIV][V]

Misannealing overhangs:





# AGAA

# TTCT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]

[PAVISGRKLEQT\*]E

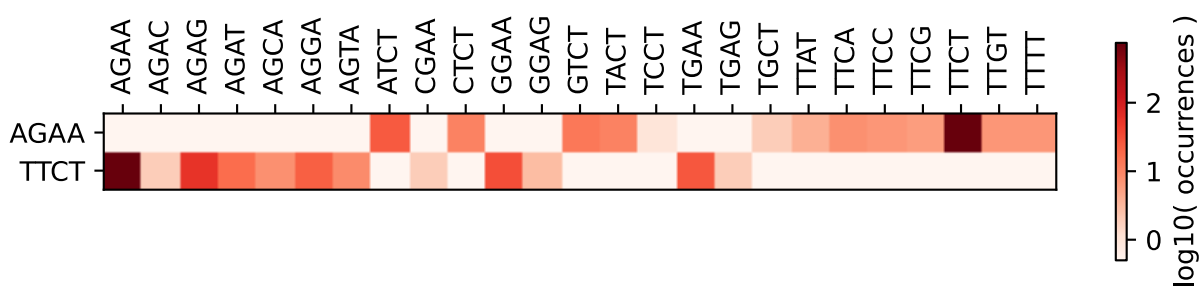
[EQK\*][NK]

F[YSWCLF\*]

[PDANVYSIGRCLHFT]S

[LIFV][L]

Misannealing overhangs:







# AGAT

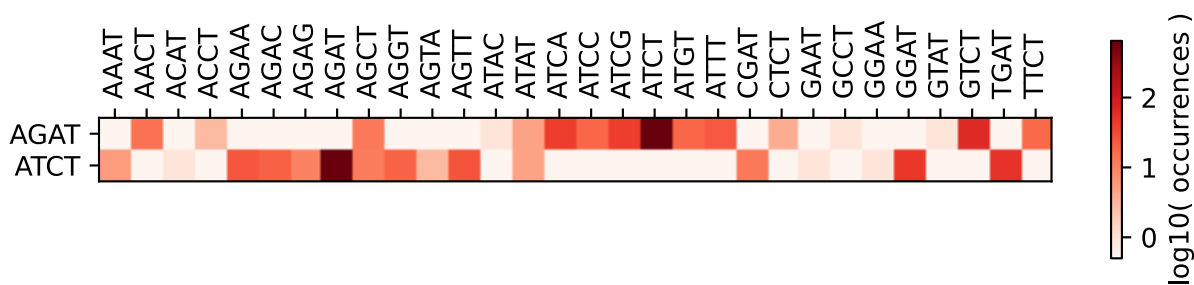
# ATCT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

R[YSWCLF\*]  
[PAVISGRKLEQT\*]D  
[EQK\*][IM]  
I[YSWCLF\*]  
[PAVISGRKLEQT\*]S  
[YDHN][L]

Misannealing overhangs:





# AGCA

# TGCT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

S[NISRKMT]

[PAVISGRKLEQT\*]A

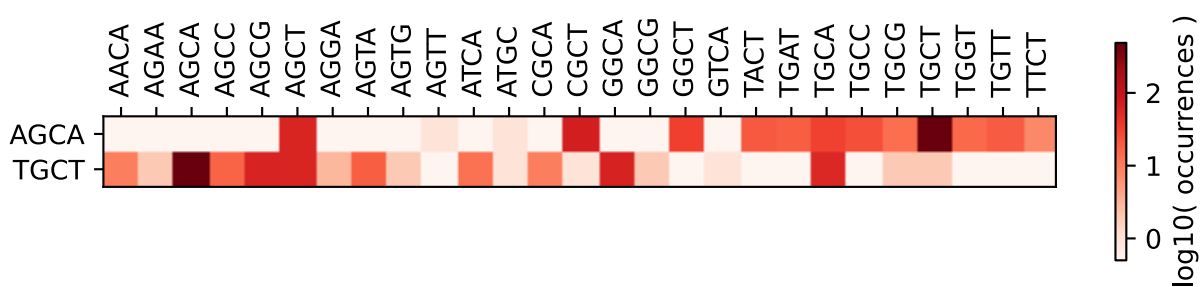
[EQK\*][HQ]

C[YSWCLF\*]

[PDANVYSIGRCLHFT]A

[LMV][L]

Misannealing overhangs:





# AGCC

# GGCT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

S[PRLHQ]

[PAVISGRKLEQT\*]A

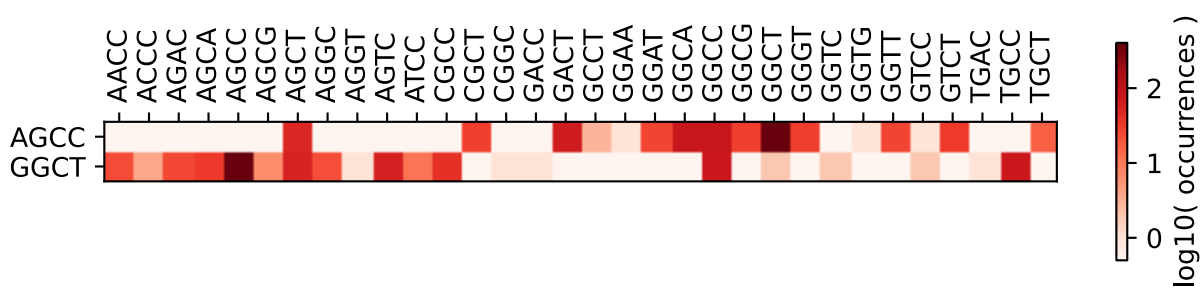
[EQK\*][P]

G[YSWCLF\*]

[PAVSGWRKLMEQT\*]A

[GWR][L]

Misannealing overhangs:





# AGCT

# AGCT

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

S[YSWCLF\*]

[PAVISGRKLEQT\*]A

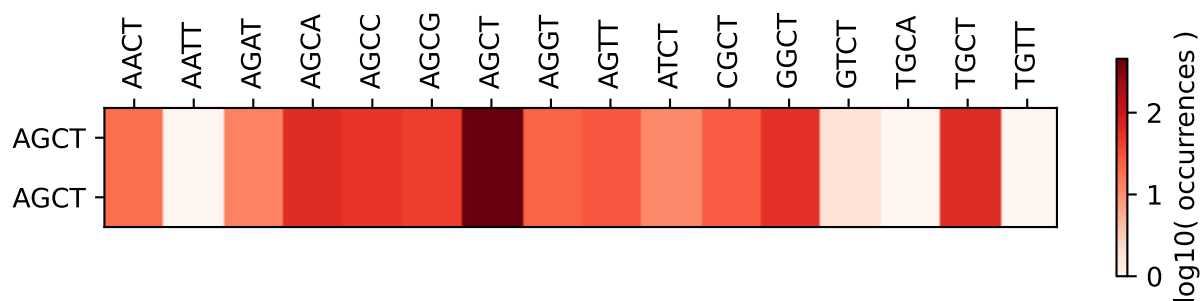
[EQK\*][L]

S[YSWCLF\*]

[PAVISGRKLEQT\*]A

[EQK\*][L]

Misannealing overhangs:





# AGGA

# TCCT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]

[PAVISGRKLEQT\*]G

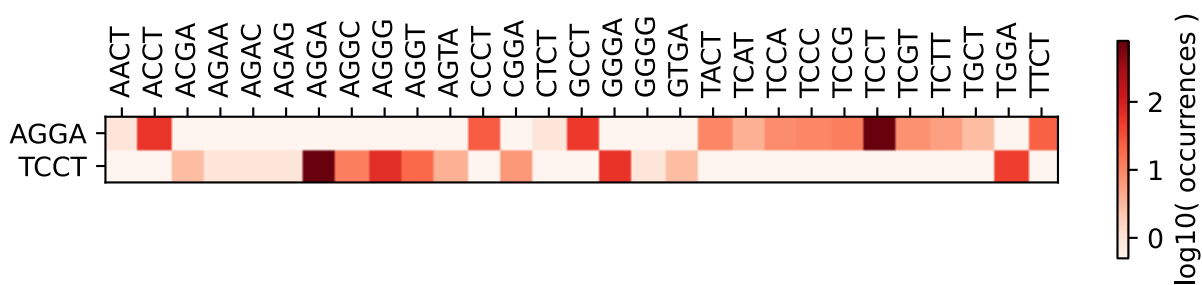
[EQK\*][ED]

S[YSWCLF\*]

[PDANVYSIGRCLHFT]P

[LIFV][L]

Misannealing overhangs:





# AGGC

# GCCT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[PRLHQ]

[PAVISGRKLEQT\*]G

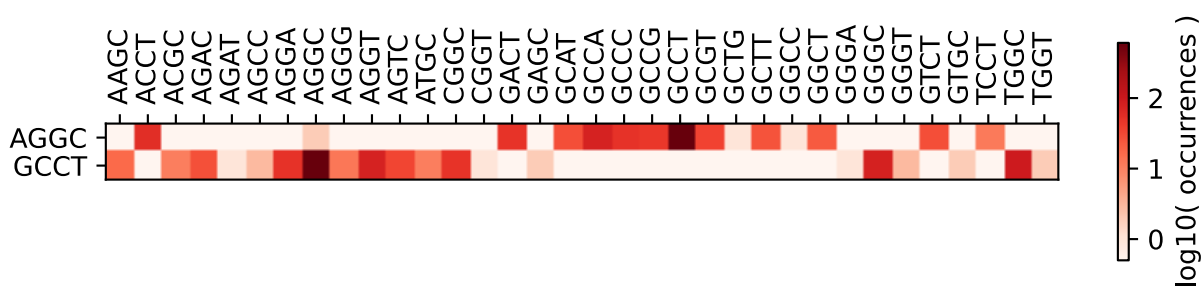
[EQK\*][A]

A[YSWCLF\*]

[PAVSGWRKLMEQT\*]P

[CSGR][L]

Misannealing overhangs:





# AGGG

# CCCT

GC content: **75 %**.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

R[ADVGE]

[PAVISGRKLEQT\*]G

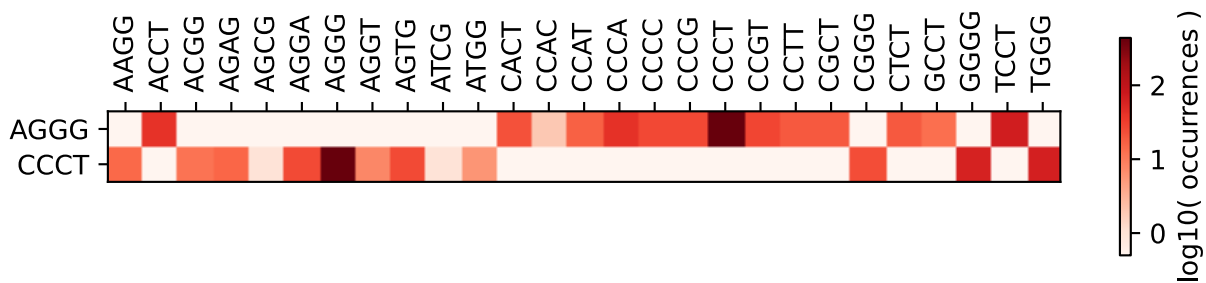
[EQK\*][G]

P[YSWCLF\*]

[PDANVYSIGRCLHFT]P

[PSAT][L]

Misannealing overhangs:





# ACCT

# AGGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[YSWCLF\*]

[PAVISGRKLEQT\*]P

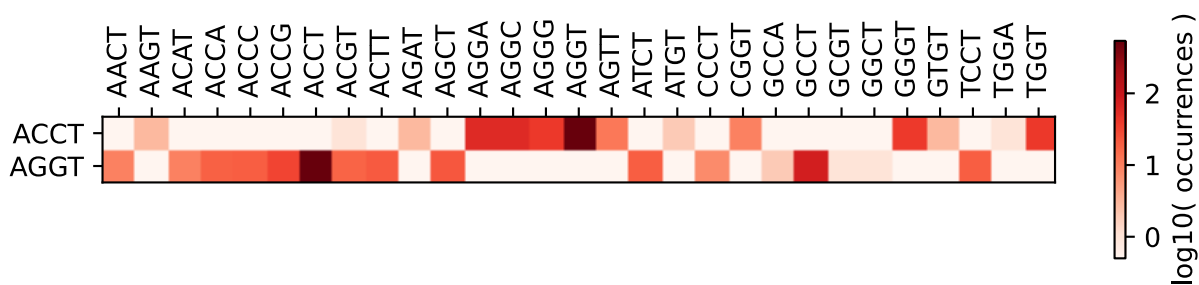
[YDHN][L]

R[YSWCLF\*]

[PAVISGRKLEQT\*]G

[EQK\*][V]

Misannealing overhangs:







# AACT

# AGTT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

N[YSWCLF\*]

[PAVISGRKLEQT\*]T

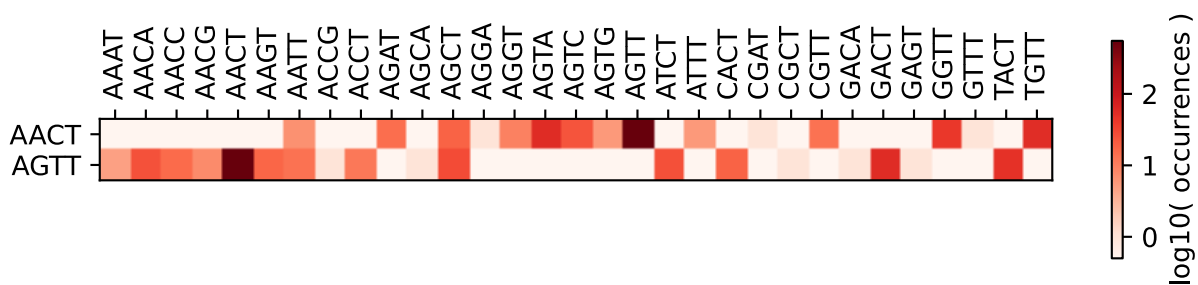
[EQK\*][L]

S[YSWCLF\*]

[PAVISGRKLEQT\*]V

[EQK\*][LF]

Misannealing overhangs:





# ATAT

# ATAT

Extreme GC content: 0 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

I[YSWCLF\*]

[PAVISGRKLEQT\*]Y

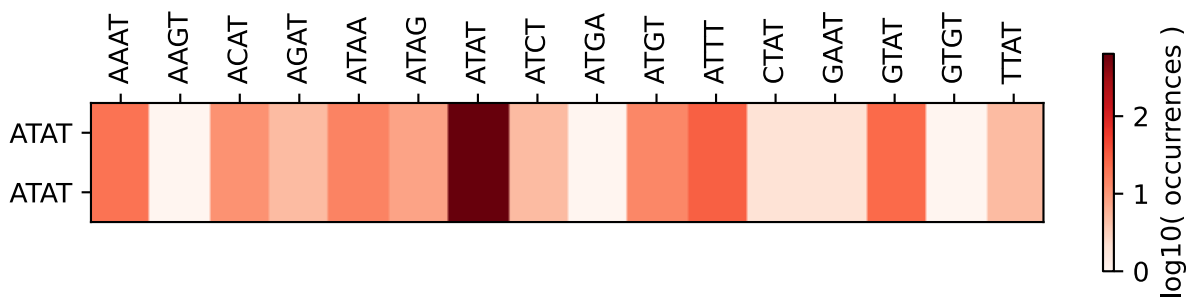
[YDHN][IM]

I[YSWCLF\*]

[PAVISGRKLEQT\*]Y

[YDHN][IM]

Misannealing overhangs:





# ATGC

# GCAT

GC content: **50 %**.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

M[PRLHQ]

[PAVISGRKLEQT\*]C

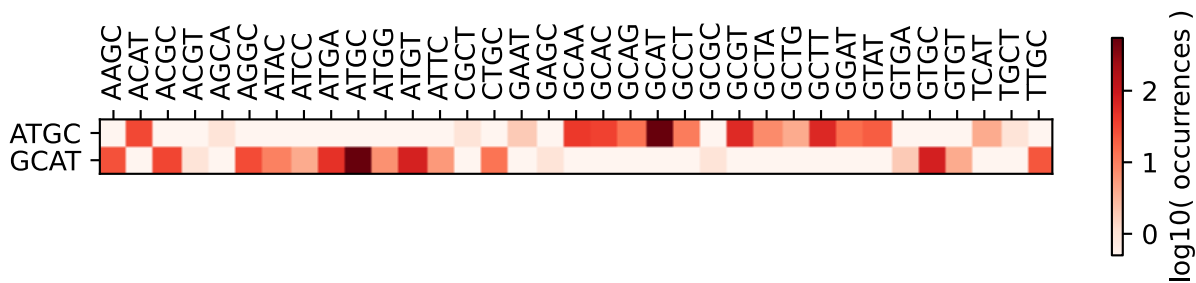
[YDHN][A]

A[YSWCLF\*]

[PAVSGWRKLMEQT\*]H

[CSGR][IM]

Misannealing overhangs:





# ACAT

# ATGT

GC content: **25 %**.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

T[YSWCLF\*]

[PAVISGRKLEQT\*]H

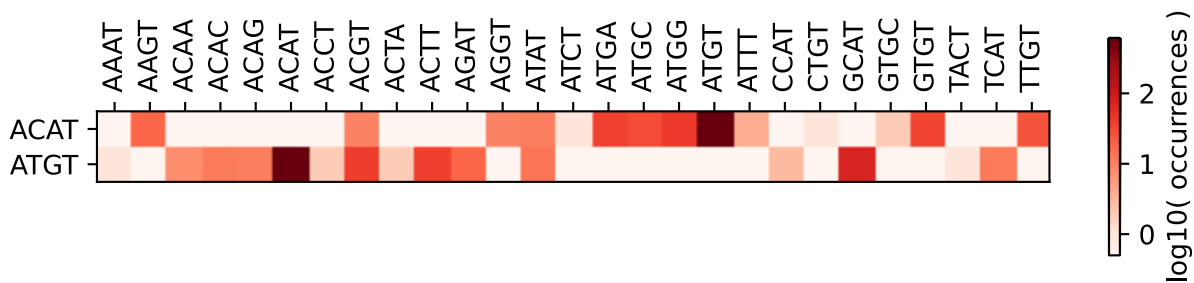
[YDHN][IM]

M[YSWCLF\*]

[PAVISGRKLEQT\*]C

[YDHN][V]

Misannealing overhangs:





# ATTG

# CAAT

GC content: 25 %.

Can form the following amino acids in 6 translation frames:

I[ADVGE]

[PAVISGRKLEQT\*]L

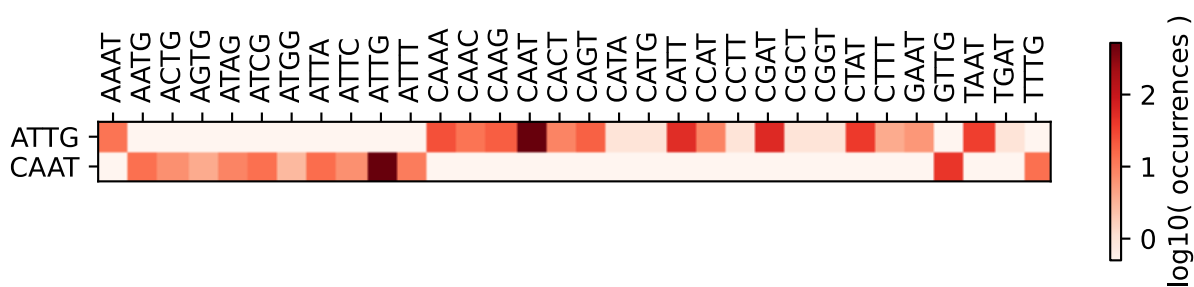
[YDHN][CW\*]

Q[YSWCLF\*]

[PDANVYSIGRCLHFT]N

[PSAT][IM]

Misannealing overhangs:





# CAAC

# GTTG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

Q[PRLHQ]

[PDANVYSIGRCLHFT]N

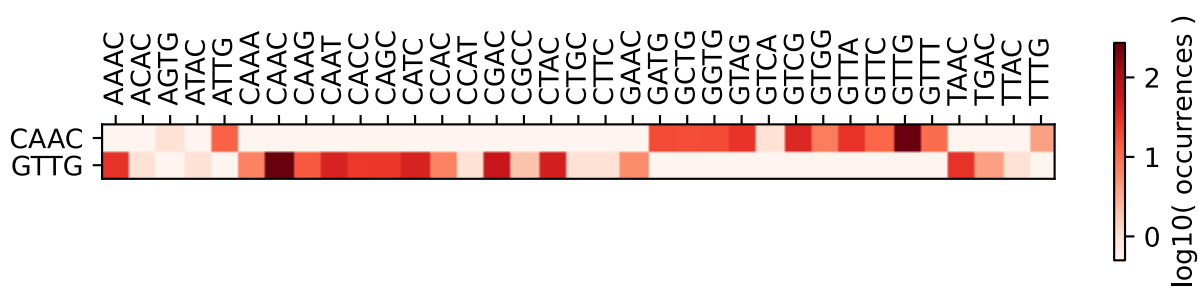
[PSAT][T]

V[ADVGE]

[PAVSGWRKLMEQT\*]L

[CSGR][CW\*]

Misannealing overhangs:





# CACA

# TGTG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

H[NISRKMT]

[PDANVYSIGRCLHFT]T

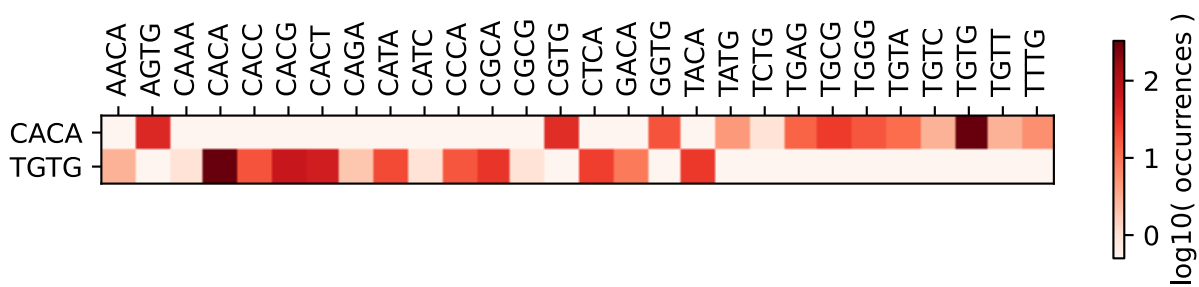
[PSAT][HQ]

C[ADVGE]

[PDANVYSIGRCLHFT]V

[LMV][CW\*]

Misannealing overhangs:





# AGTG

# CACT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

S[ADVGE]

[PAVISGRKLEQT\*]V

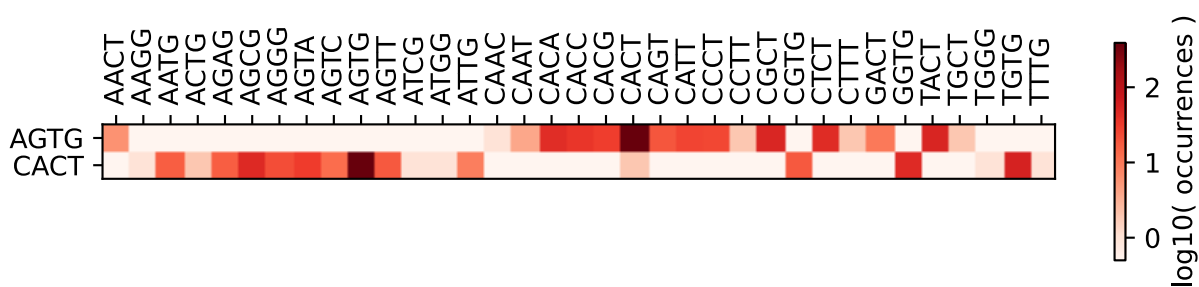
[EQK\*][CW\*]

H[YSWCLF\*]

[PDANVYSIGRCLHFT]T

[PSAT][L]

Misannealing overhangs:







# CAGA

# TCTG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

Q[NISRKMT]

[PDANVYSIGRCLHFT]R

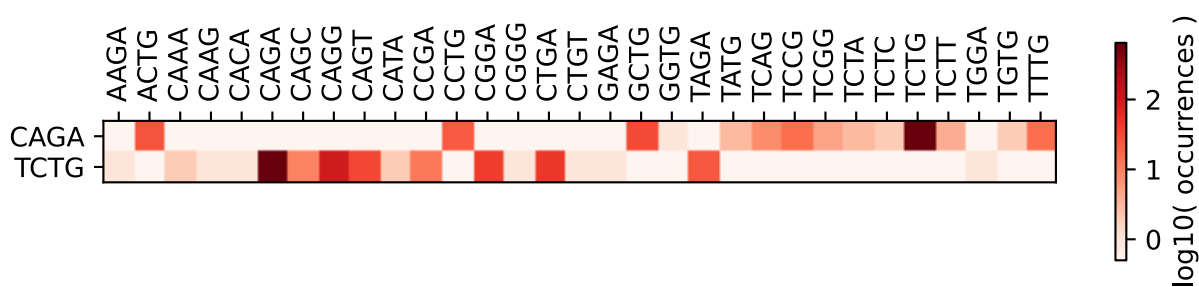
[PSAT][ED]

S[ADVGE]

[PDANVYSIGRCLHFT]L

[LIFV][CW\*]

Misannealing overhangs:





# CAGG

# CCTG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

Q[ADVGE]

[PDANVYSIGRCLHFT]R

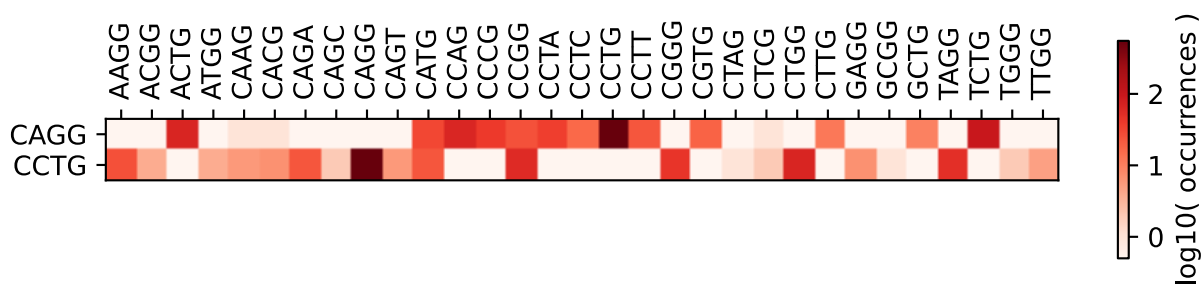
[PSAT][G]

P[ADVGE]

[PDANVYSIGRCLHFT]L

[PSAT][CW\*]

Misannealing overhangs:





# ACTG

# CAGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[ADVGE]

[PAVISGRKLEQT\*]L

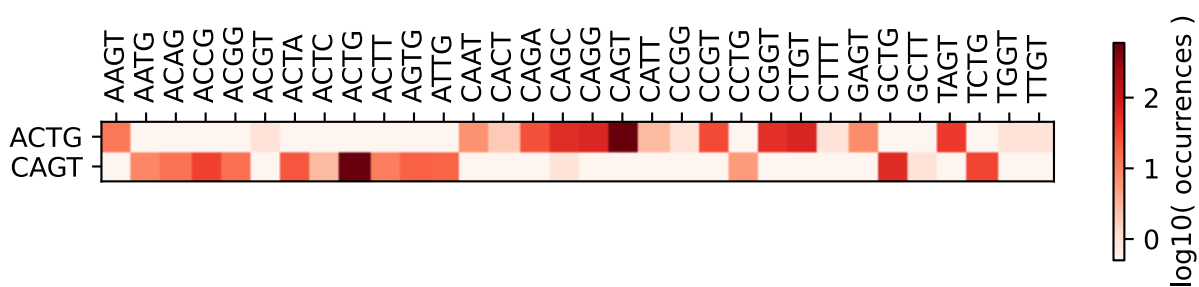
[YDHN][CW\*]

Q[YSWCLF\*]

[PDANVYSIGRCLHFT]S

[PSAT][V]

Misannealing overhangs:





# CATG

# CATG

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

H[ADVGE]

[PDANVYSIGRCLHFT]M

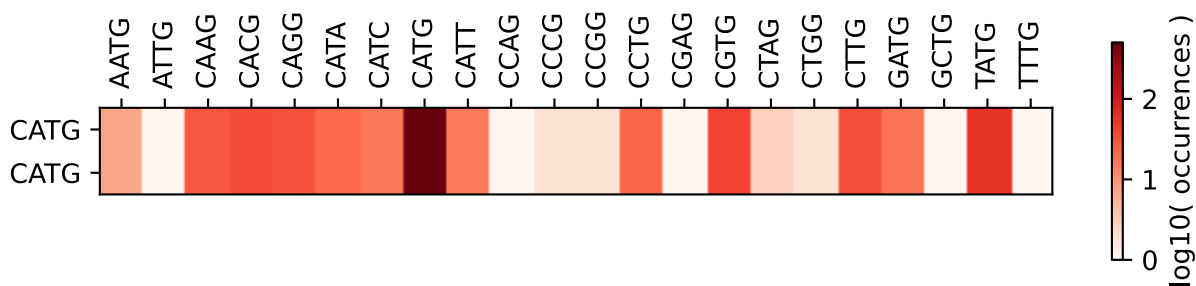
[PSAT][CW\*]

H[ADVGE]

[PDANVYSIGRCLHFT]M

[PSAT][CW\*]

Misannealing overhangs:





# AATG

# CATT

GC content: **25 %**.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

N[ADVGE]

[PAVISGRKLEQT\*]M

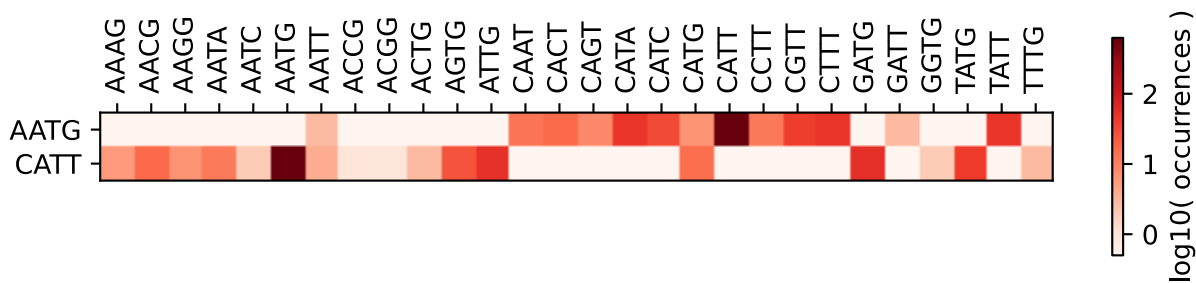
[EQK\*][CW\*]

H[YSWCLF\*]

[PDANVYSIGRCLHFT]I

[PSAT][LF]

Misannealing overhangs:





# CCAC

# GTGG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

P[PRLHQ]

[PDANVYSIGRCLHFT]H

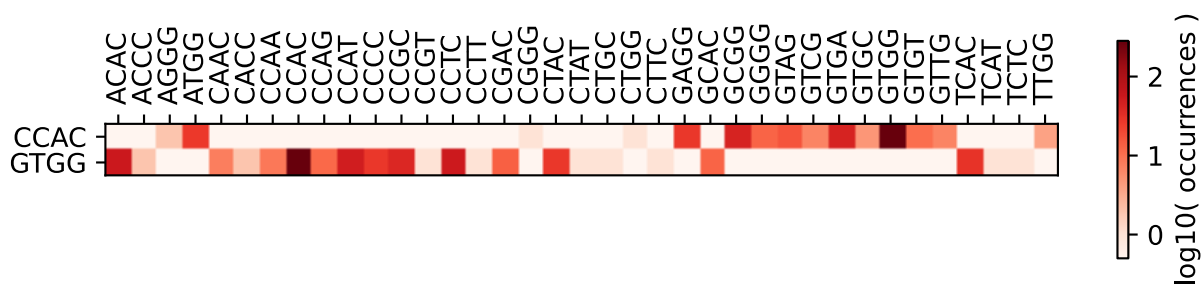
[PSAT][T]

V[ADVGE]

[PAVSGWRKLMEQT\*]W

[CSGR][G]

Misannealing overhangs:





# CCAG

# CTGG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

P[ADVGE]

[PDANVYSIGRCLHFT]Q

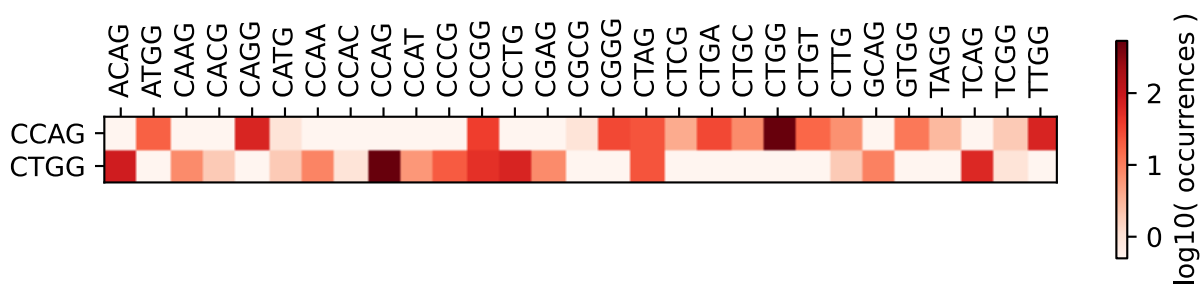
[PSAT][SR]

L[ADVGE]

[PDANVYSIGRCLHFT]W

[PSAT][G]

Misannealing overhangs:





# ATGG

# CCAT

GC content: **50 %**.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

M[ADVGE]

[PAVISGRKLEQT\*]W

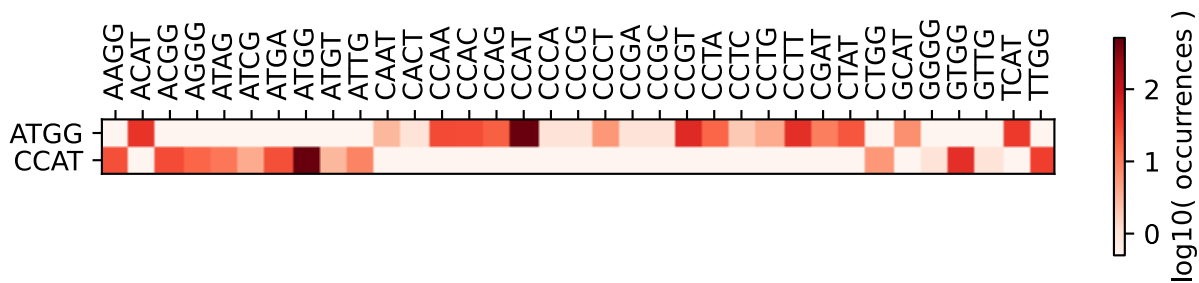
[YDHN][G]

P[YSWCLF\*]

[PDANVYSIGRCLHFT]H

[PSAT][IM]

Misannealing overhangs:







# CCCA

# TGGG

GC content: **75 %**.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

P[NISRKMT]

[PDANVYSIGRCLHFT]P

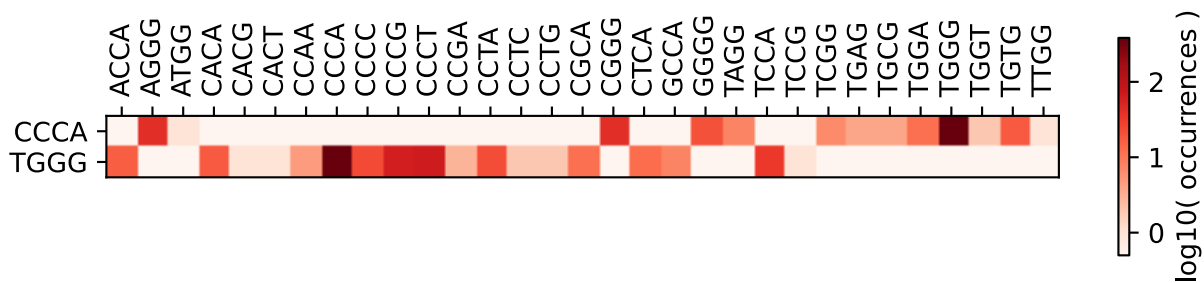
[PSAT][HQ]

W[ADVGE]

[PDANVYSIGRCLHFT]G

[LMV][G]

Misannealing overhangs:





# CCCC

# GGGG

Extreme GC content: 100 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

P[PRLHQ]

[PDANVYSIGRCLHFT]P

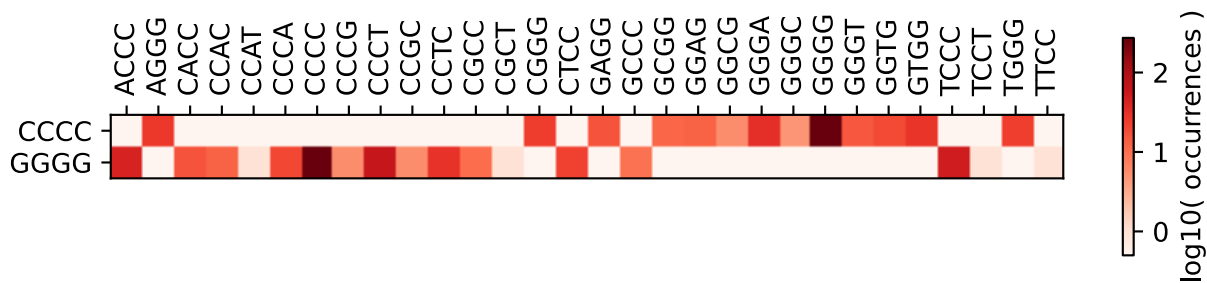
[PSAT][P]

G[ADVGE]

[PAVSGWRKLMEQT\*]G

[GWR][G]

Misannealing overhangs:





# CCCG

# CGGG

Extreme GC content: 100 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

P[ADVGE]

[PDANVYSIGRCLHFT]P

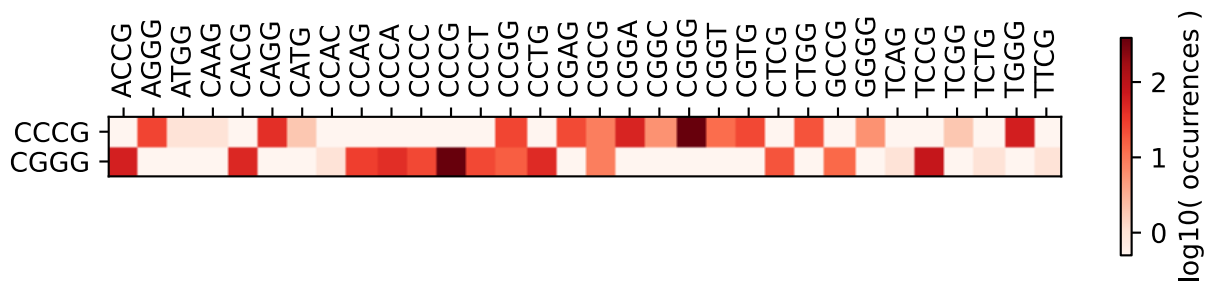
[PSAT][R]

R[ADVGE]

[PDANVYSIGRCLHFT]G

[PSAT][G]

Misannealing overhangs:





CCGG

CCGG

Extreme GC content: 100 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

P[ADVGE]

[PDANVYSIGRCLHFT]R

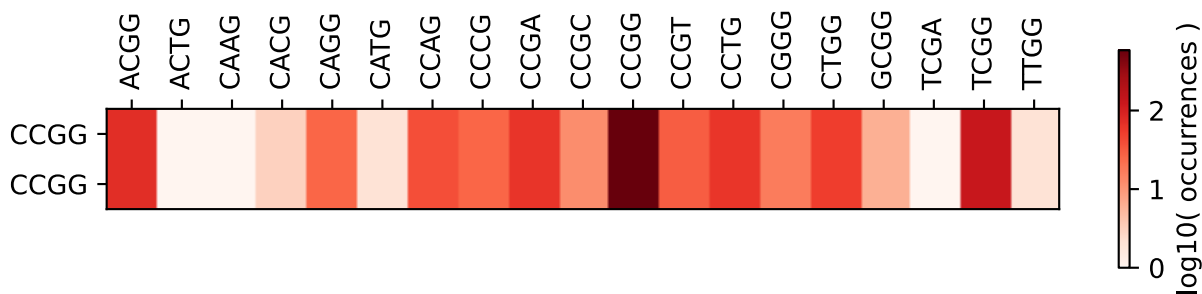
[PSAT][G]

P[ADVGE]

[PDANVYSIGRCLHFT]R

[PSAT][G]

Misannealing overhangs:





# ACGG

# CCGT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

T[ADVGE]

[PAVISGRKLEQT\*]R

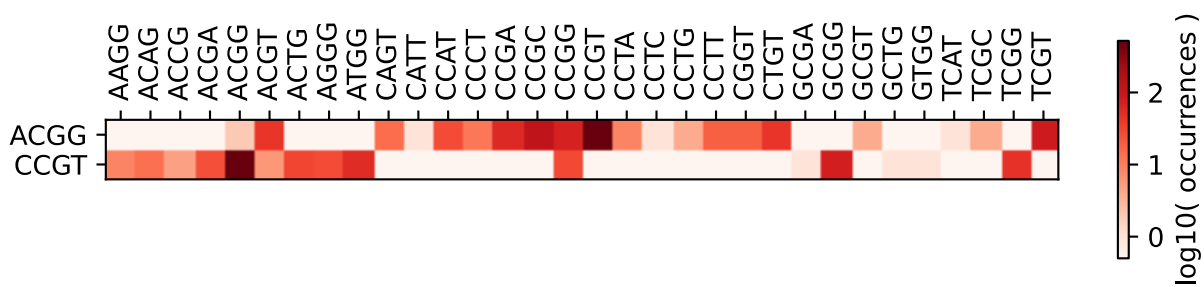
[YDHN][G]

P[YSWCLF\*]

[PDANVYSIGRCLHFT]R

[PSAT][V]

Misannealing overhangs:





# CCTA

# TAGG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

P[NISRKMT]

[PDANVYSIGRCLHFT]L

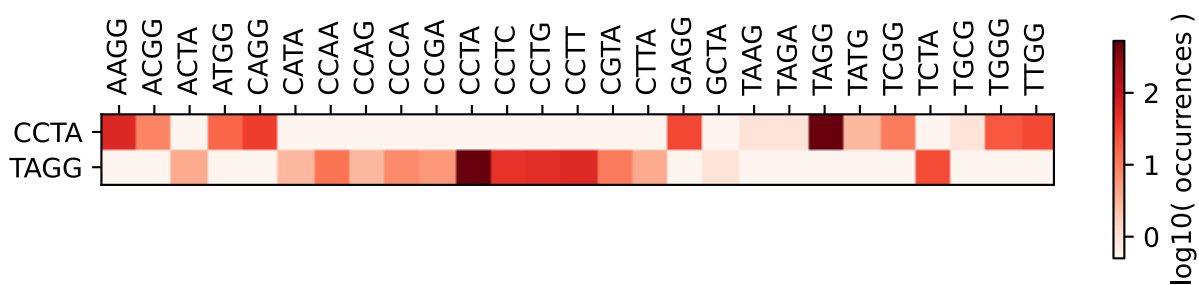
[PSAT][Y\*]

\*[ADVGE]

[PDANVYSIGRCLHFT]R

[LIV][G]

Misannealing overhangs:





# CCTC

# GAGG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

P[PRLHQ]

[PDANVYSIGRCLHFT]L

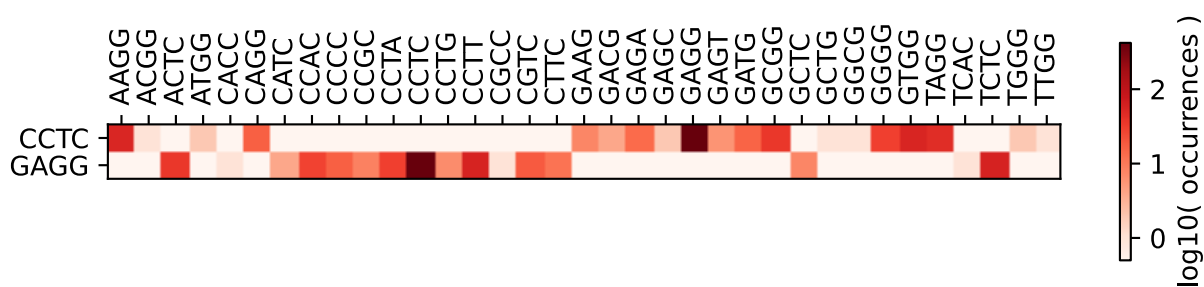
[PSAT][S]

E[ADVGE]

[PAVSGWRKLMEQT\*]R

[GR\*][G]

Misannealing overhangs:





# AAGG

# CCTT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

K[ADVGE]

[PAVISGRKLEQT\*]R

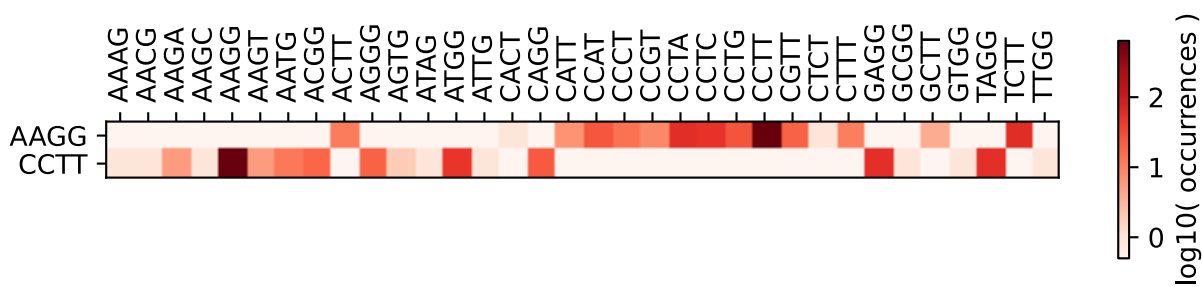
[EQK\*][G]

P[YSWCLF\*]

[PDANVYSIGRCLHFT]L

[PSAT][LF]

Misannealing overhangs:







# CGAA

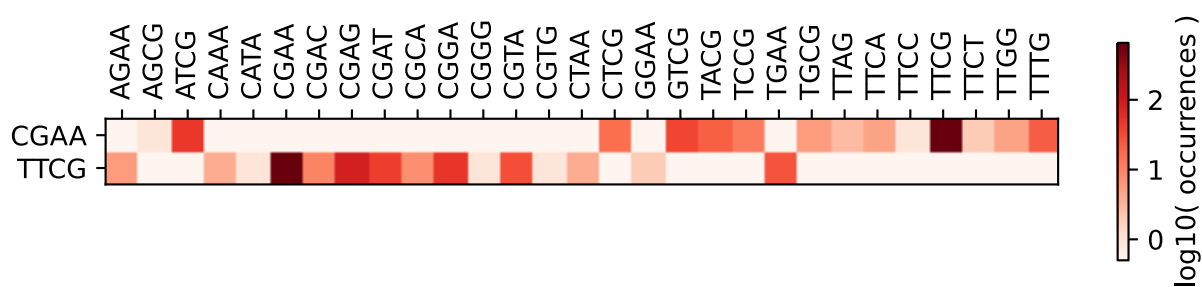
# TTCG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]  
[PDANVYSIGRCLHFT]E  
[PSAT][NK]  
F[ADVGE]  
[PDANVYSIGRCLHFT]S  
[LIFV][R]

Misannealing overhangs:





# CGAC

# GTCG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[PRLHQ]

[PDANVYSIGRCLHFT]D

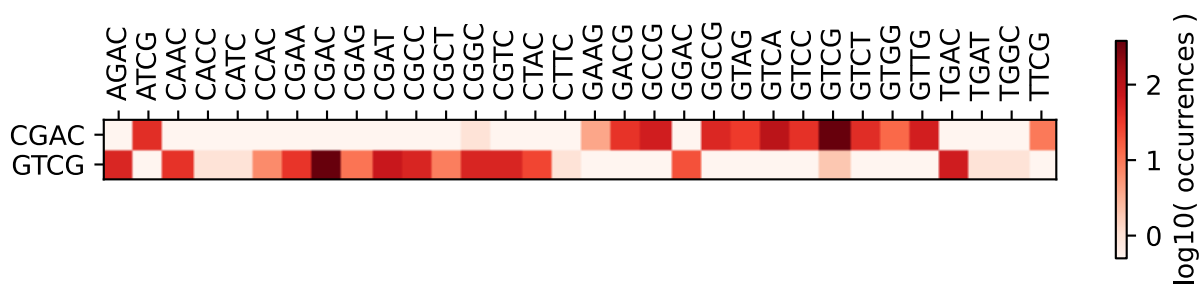
[PSAT][T]

V[ADVGE]

[PAVSGWRKLMEQT\*]S

[CSGR][R]

Misannealing overhangs:





# CGAG

# CTCG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[ADVGE]

[PDANVYSIGRCLHFT]E

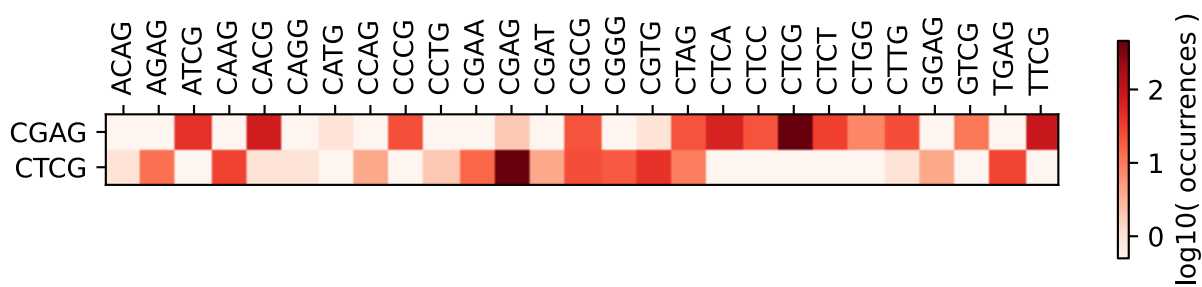
[PSAT][SR]

L[ADVGE]

[PDANVYSIGRCLHFT]S

[PSAT][R]

Misannealing overhangs:





# ATCG

# CGAT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

I[ADVGE]

[PAVISGRKLEQT\*]S

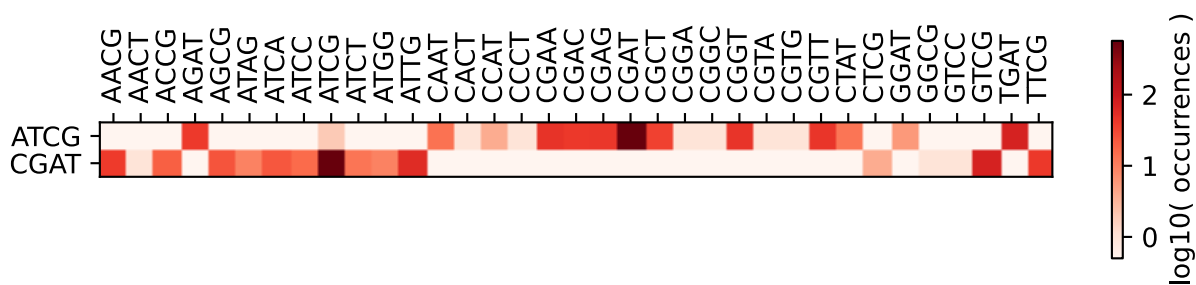
[YDHN][R]

R[YSWCLF\*]

[PDANVYSIGRCLHFT]D

[PSAT][IM]

Misannealing overhangs:





# CGCA

# TGCG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]

[PDANVYSIGRCLHFT]A

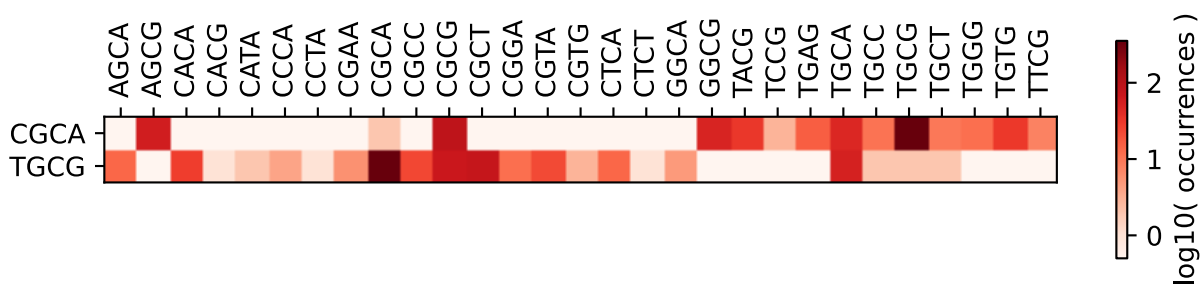
[PSAT][HQ]

C[ADVGE]

[PDANVYSIGRCLHFT]A

[LMV][R]

Misannealing overhangs:





GGCG

Can form the following amino acids in 6 translation frames:

[PDANVYSIGRCLHFT]A

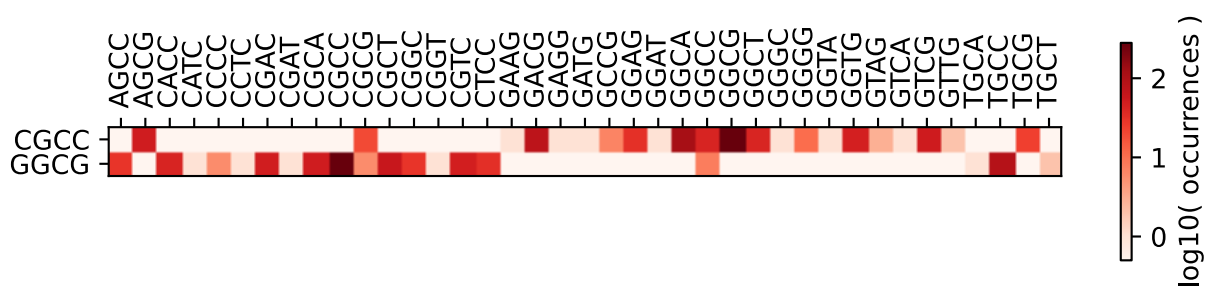
[PSAT][P]

G[ADVGE]

[PAVSGWRKLMEQT\*]A

[GWR][R]

Misannealing overhangs:





CGCG

CGCG

Extreme GC content: 100 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

R[ADVGE]

[PDANVYSIGRCLHFT]A

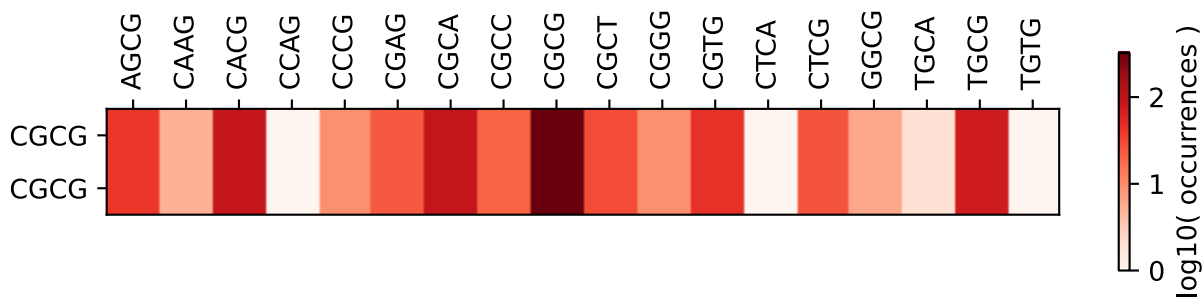
[PSAT][R]

R[ADVGE]

[PDANVYSIGRCLHFT]A

[PSAT][R]

Misannealing overhangs:





# AGCG

# CGCT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

S[ADVGE]

[PAVISGRKLEQT\*]A

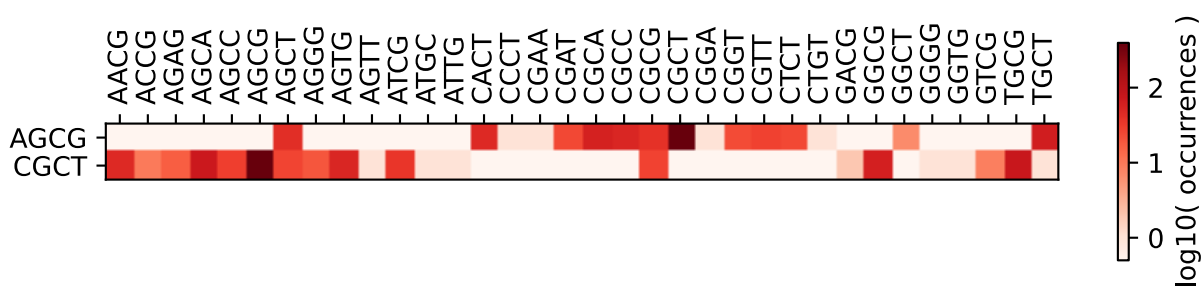
[EQK\*][R]

R[YSWCLF\*]

[PDANVYSIGRCLHFT]A

[PSAT][L]

Misannealing overhangs:







# CGGA

# TCCG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]

[PDANVYSIGRCLHFT]G

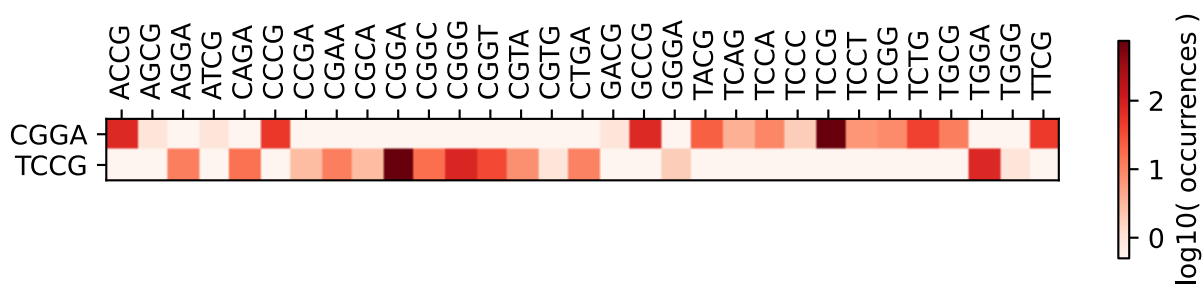
[PSAT][ED]

S[ADVGE]

[PDANVYSIGRCLHFT]P

[LIFV][R]

Misannealing overhangs:





# CGGC

# GCCG

Extreme GC content: 100 %.

Can form the following amino acids in 6 translation frames:

R[PRLHQ]

[PDANVYSIGRCLHFT]G

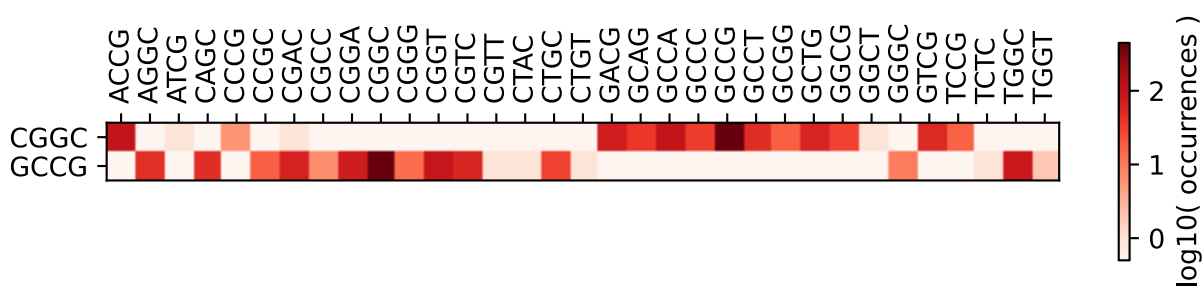
[PSAT][A]

A[ADVGE]

[PAVSGWRKLMEQT\*]P

[CSGR][R]

Misannealing overhangs:





# CGTA

# TACG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

R[NISRKMT]

[PDANVYSIGRCLHFT]V

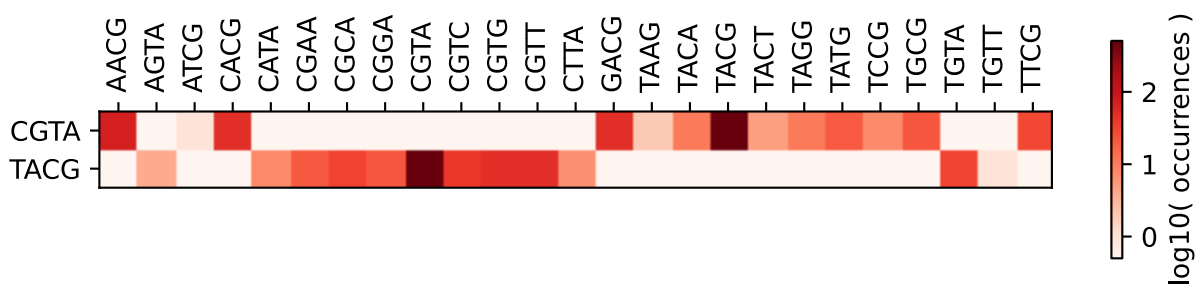
[PSAT][Y\*]

Y[ADVGE]

[PDANVYSIGRCLHFT]T

[LIV][R]

Misannealing overhangs:





# CACG

# CGTG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

H[ADVGE]

[PDANVYSIGRCLHFT]T

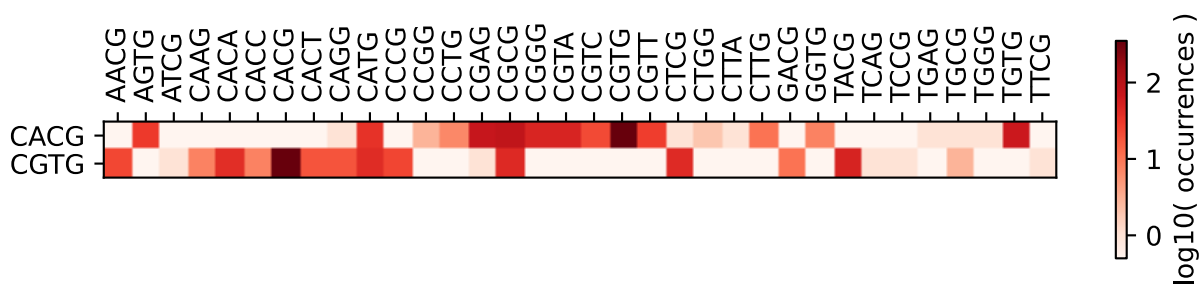
[PSAT][R]

R[ADVGE]

[PDANVYSIGRCLHFT]V

[PSAT][CW\*]

Misannealing overhangs:





# AACG

# CGTT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

N[ADVGE]

[PAVISGRKLEQT\*]T

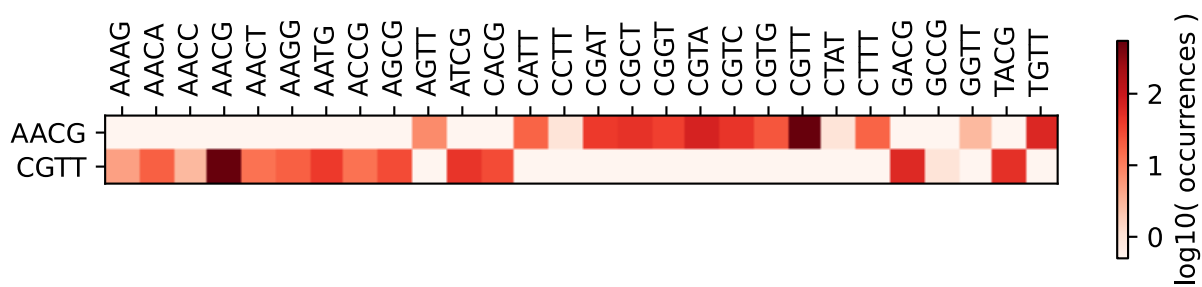
[EQK\*][R]

R[YSWCLF\*]

[PDANVYSIGRCLHFT]V

[PSAT][LF]

Misannealing overhangs:





# CTAA

# TTAG

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

L[NISRKMT]

[PDANVYSIGRCLHFT]\*

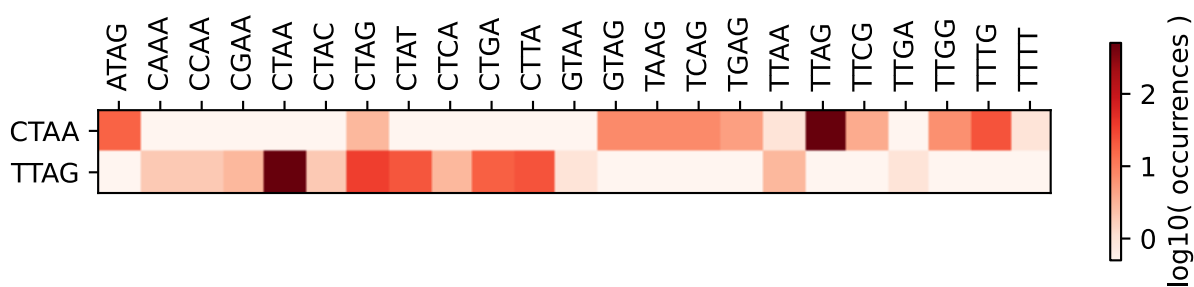
[PSAT][NK]

L[ADVGE]

[PDANVYSIGRCLHFT]\*

[LIFV][SR]

Misannealing overhangs:





# CTAC

# GTAG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

L[PRLHQ]

[PDANVYSIGRCLHFT]Y

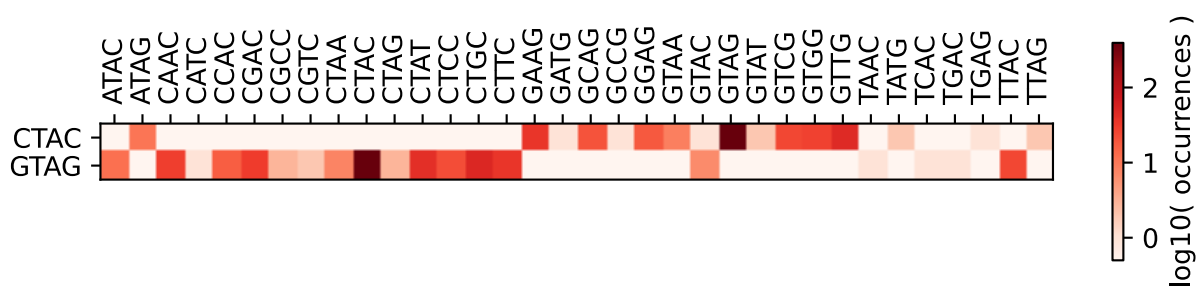
[PSAT][T]

V[ADVGE]

[PAVSGWRKLMEQT\*]\*

[CSGR][SR]

Misannealing overhangs:





# CTAG

# CTAG

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

L[ADVGE]

[PDANVYSIGRCLHFT]\*

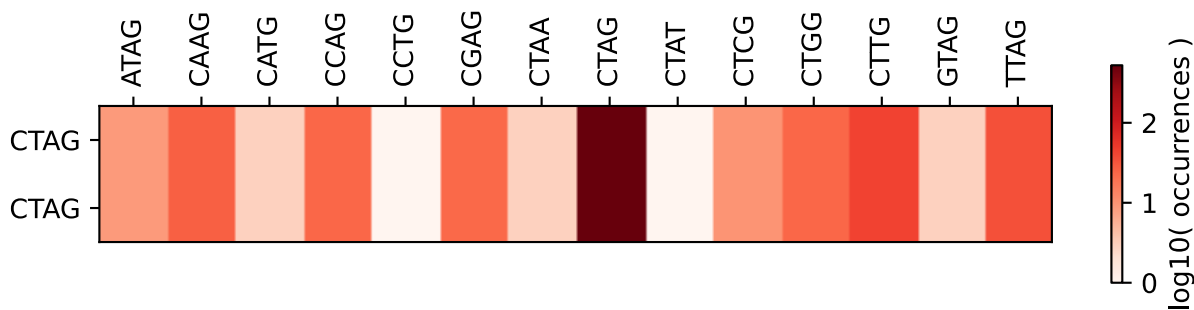
[PSAT][SR]

L[ADVGE]

[PDANVYSIGRCLHFT]\*

[PSAT][SR]

Misannealing overhangs:







# ATAG

# CTAT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

I[ADVGE]

[PAVISGRKLEQT\*]\*

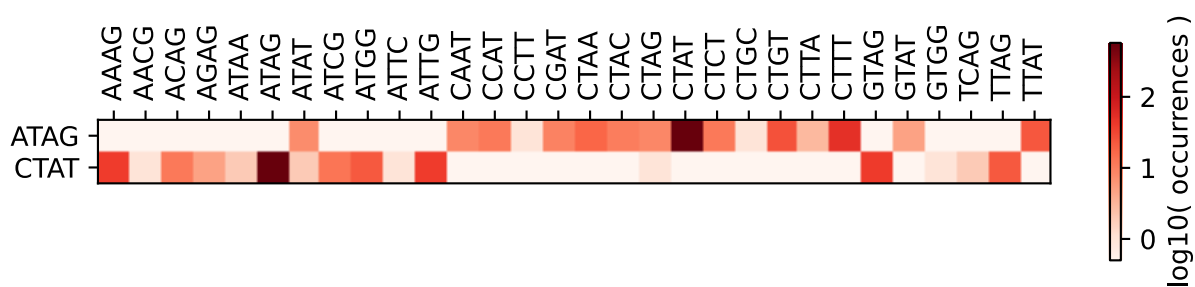
[YDHN][SR]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]Y

[PSAT][IM]

Misannealing overhangs:





# CTCC

# GGAG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

L[PRLHQ]

[PDANVYSIGRCLHFT]S

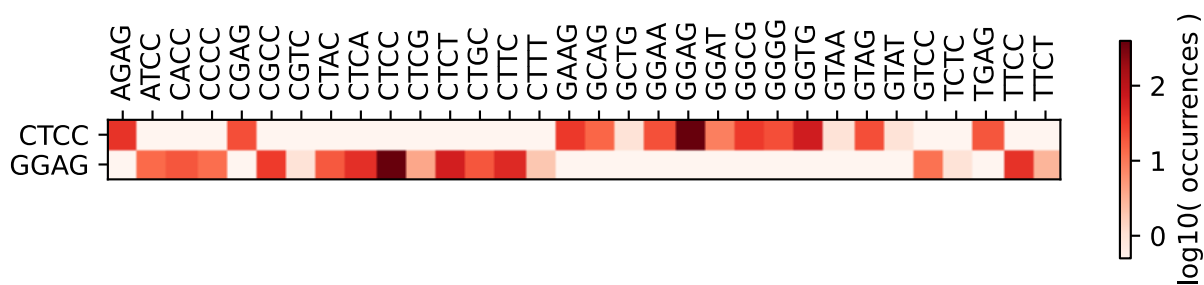
[PSAT][P]

G[ADVGE]

[PAVSGWRKLMEQT\*]E

[GWR][SR]

Misannealing overhangs:





# AGAG

# CTCT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

R[ADVGE]

[PAVISGRKLEQT\*]E

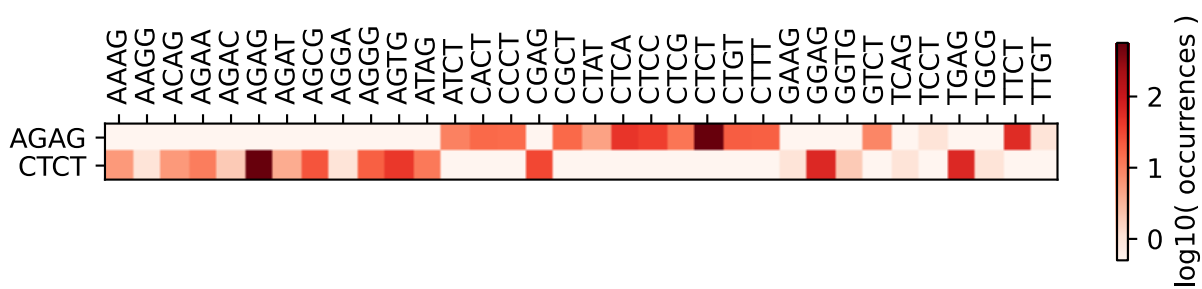
[EQK\*][SR]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]S

[PSAT][L]

Misannealing overhangs:





# CTTA

# TAAG

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

L[NISRKMT]

[PDANVYSIGRCLHFT]L

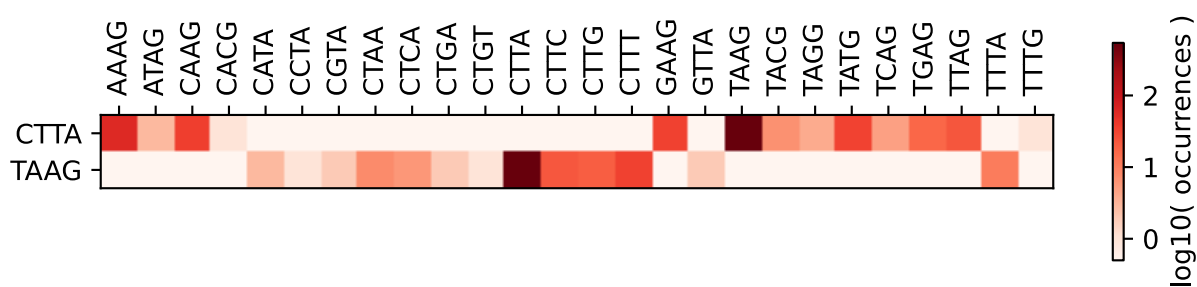
[PSAT][Y\*]

\*[ADVGE]

[PDANVYSIGRCLHFT]K

[LIV][SR]

Misannealing overhangs:





# CAAG

# CTTG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

Q[ADVGE]

[PDANVYSIGRCLHFT]K

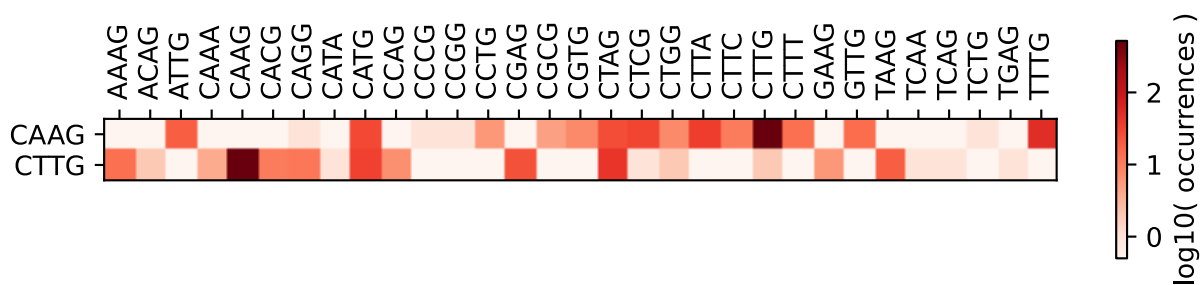
[PSAT][SR]

L[ADVGE]

[PDANVYSIGRCLHFT]L

[PSAT][CW\*]

Misannealing overhangs:





# GAAC

# GTTC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

E[PRLHQ]

[PAVSGWRKLMEQT\*]N

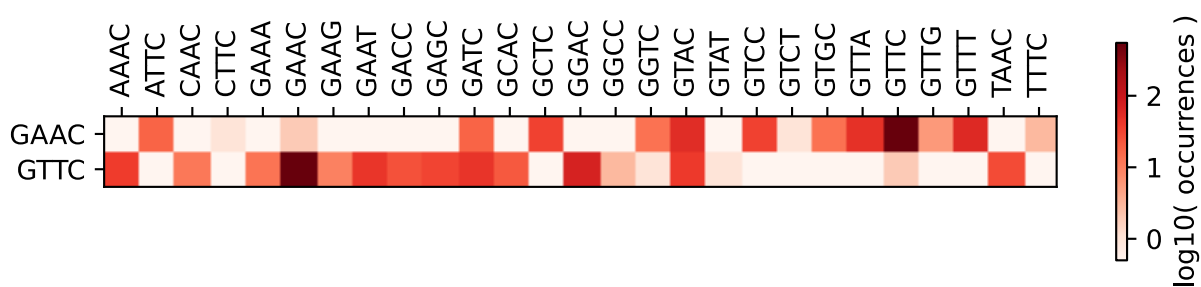
[GR\*][T]

V[PRLHQ]

[PAVSGWRKLMEQT\*]F

[CSGR][S]

Misannealing overhangs:





# CTTC

# GAAG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

L[PRLHQ]

[PDANVYSIGRCLHFT]F

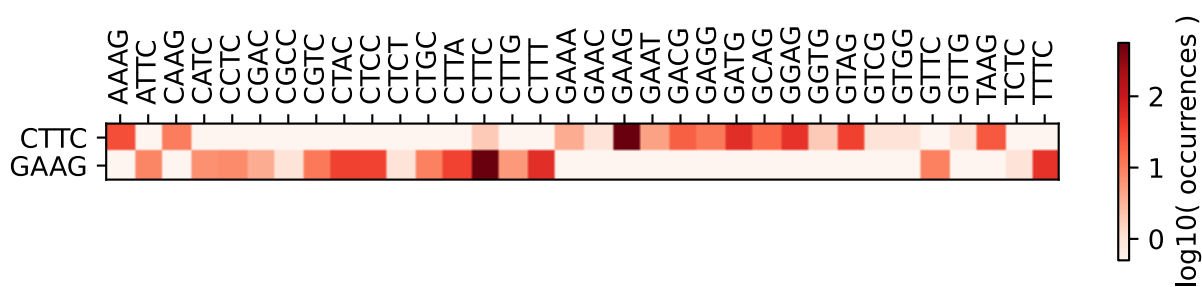
[PSAT][S]

E[ADVGE]

[PAVSGWRKLMEQT\*]K

[GR\*][SR]

Misannealing overhangs:





# ATTC

# GAAT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

I[PRLHQ]

[PAVISGRKLEQT\*]F

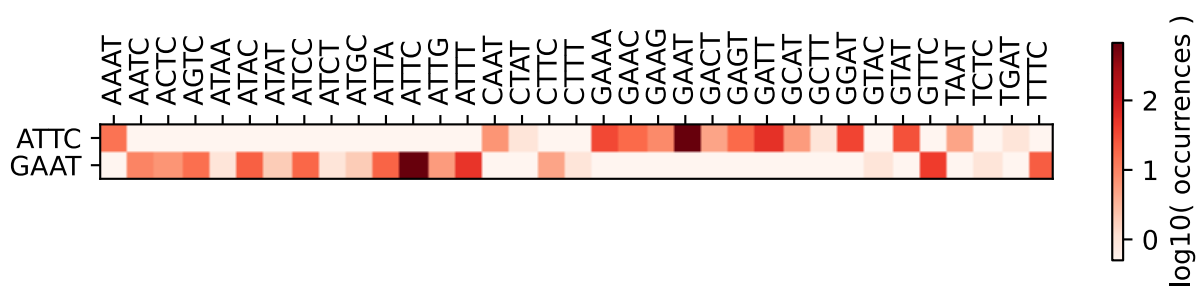
[YDHN][S]

E[YSWCLF\*]

[PAVSGWRKLMEQT\*]N

[GR\*][IM]

Misannealing overhangs:







# GACC

# GGTC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

D[PRLHQ]

[PAVSGWRKLMEQT\*]T

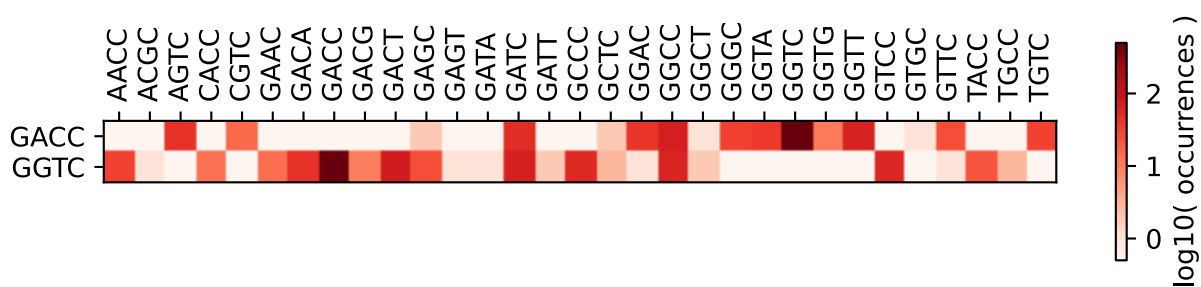
[GR\*][P]

G[PRLHQ]

[PAVSGWRKLMEQT\*]V

[GWR][S]

Misannealing overhangs:





# CGTC

# GACG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

R[PRLHQ]

[PDANVYSIGRCLHFT]V

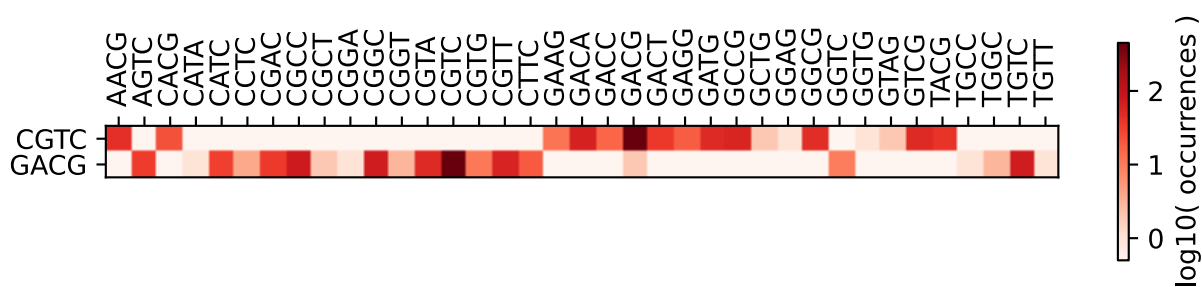
[PSAT][S]

D[ADVGE]

[PAVSGWRKLMEQT\*]T

[GR\*][R]

Misannealing overhangs:





# AGTC

# GACT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

S[PRLHQ]

[PAVISGRKLEQT\*]V

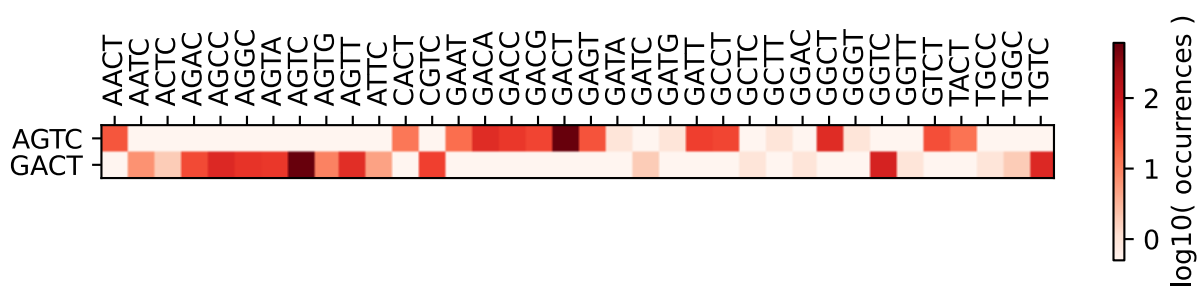
[EQK\*][S]

D[YSWCLF\*]

[PAVSGWRKLMEQT\*]T

[GR\*][L]

Misannealing overhangs:





# GAGC

# GCTC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

E[PRLHQ]

[PAVSGWRKLMEQT\*]S

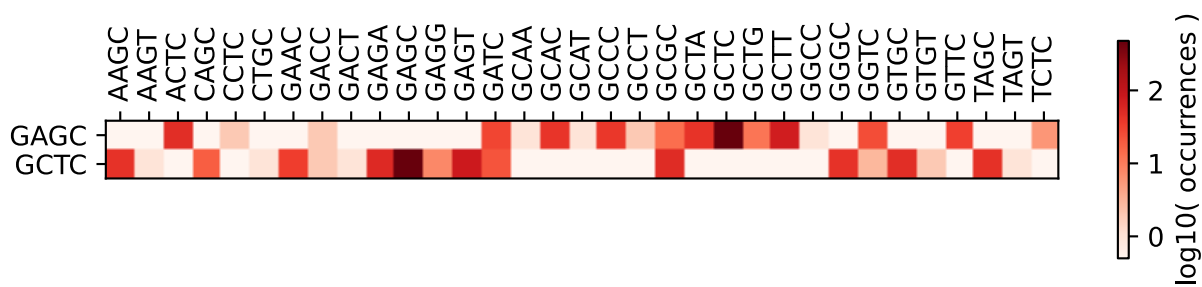
[GR\*][A]

A[PRLHQ]

[PAVSGWRKLMEQT\*]L

[CSGR][S]

Misannealing overhangs:





# ACTC

# GAGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[PRLHQ]

[PAVISGRKLEQT\*]L

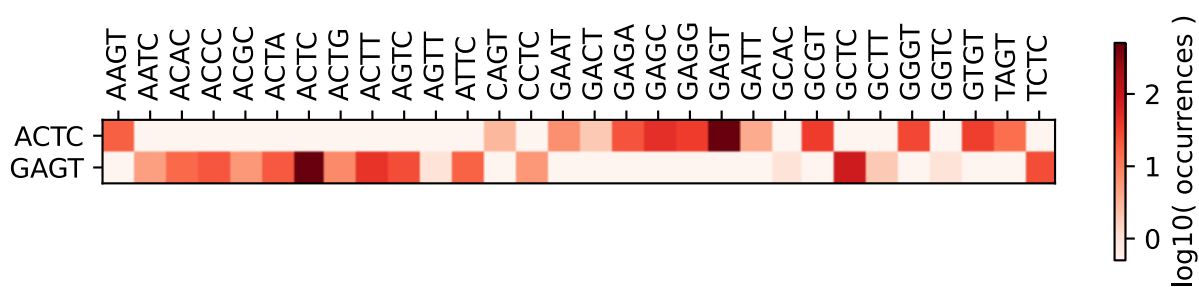
[YDHN][S]

E[YSWCLF\*]

[PAVSGWRKLMEQT\*]S

[GR\*][V]

Misannealing overhangs:





# GATA

# TATC

GC content: 25 %.

Can form the following amino acids in 6 translation frames:

D[NISRKMT]

[PAVSGWRKLMEQT\*]I

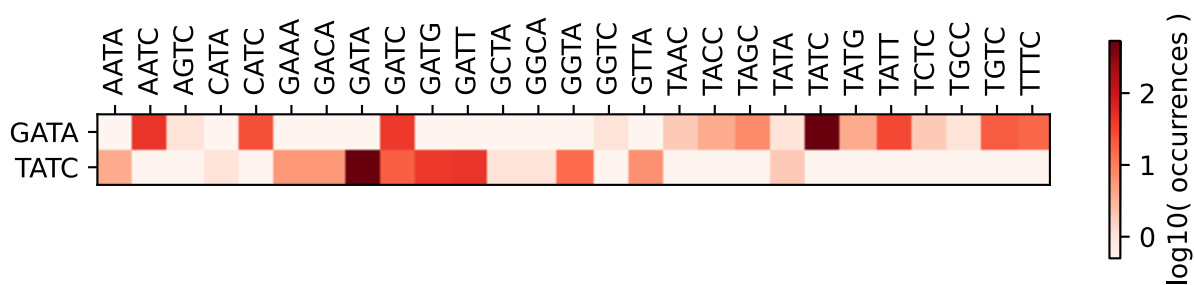
[GR\*][Y\*]

Y[PRLHQ]

[PDANVYSIGRCLHFT]I

[LIV][S]

Misannealing overhangs:





# GATC

# GATC

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

D[PRLHQ]

[PAVSGWRKLMEQT\*]I

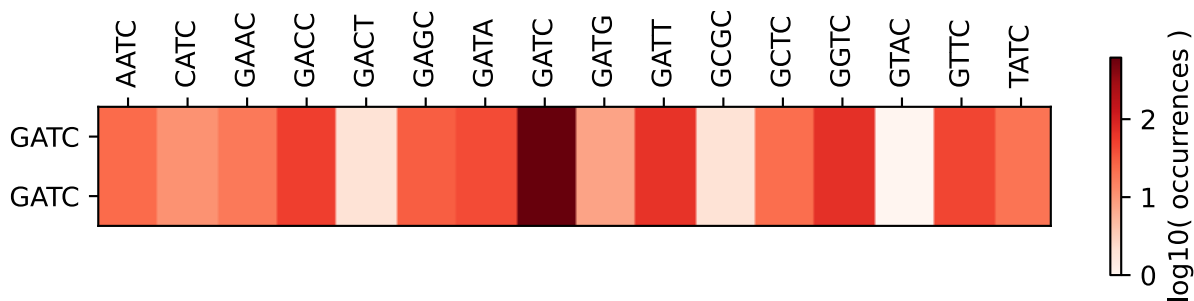
[GR\*][S]

D[PRLHQ]

[PAVSGWRKLMEQT\*]I

[GR\*][S]

Misannealing overhangs:





# CATC

# GATG

GC content: **50 %**.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

H[PRLHQ]

[PDANVYSIGRCLHFT]I

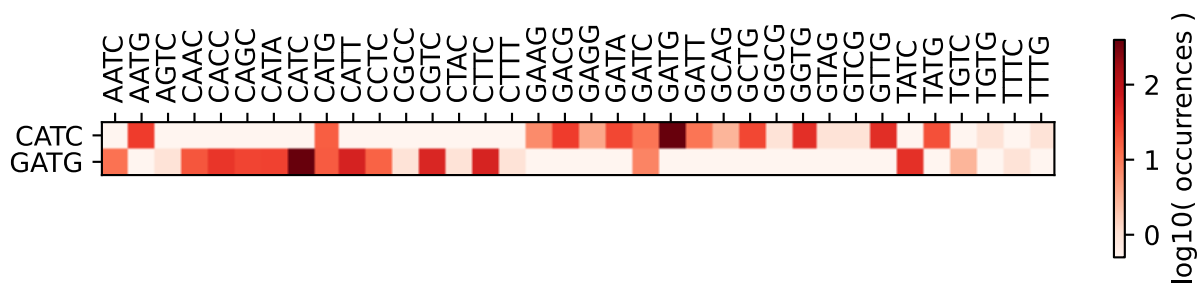
[PSAT][S]

D[ADVGE]

[PAVSGWRKLMEQT\*]M

[GR\*][CW\*]

Misannealing overhangs:







# CTGC

# GCAG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

L[PRLHQ]

[PDANVYSIGRCLHFT]C

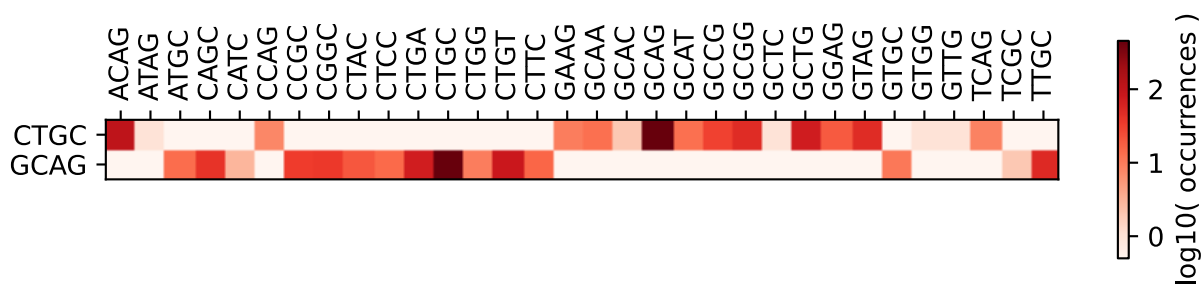
[PSAT][A]

A[ADVGE]

[PAVSGWRKLMEQT\*]Q

[CSGR][SR]

Misannealing overhangs:





# GCCC

# GGGC

Extreme GC content: 100 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

A[PRLHQ]

[PAVSGWRKLMEQT\*]P

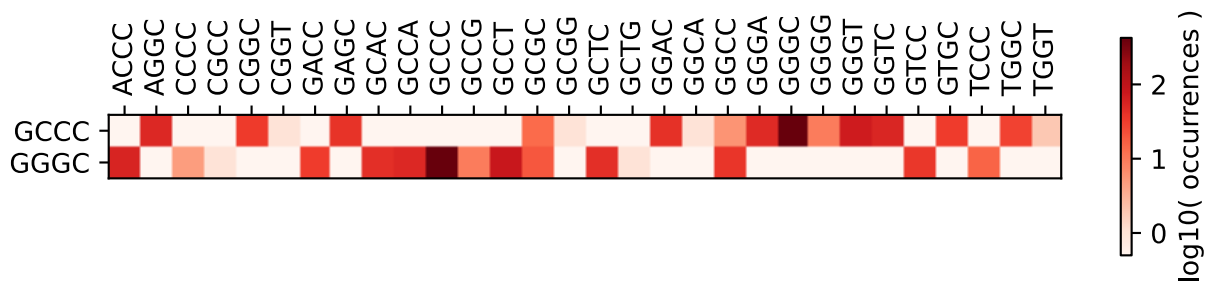
[CSGR][P]

G[PRLHQ]

[PAVSGWRKLMEQT\*]G

[GWR][A]

Misannealing overhangs:





# GCGC

# GCGC

Extreme GC content: 100 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

A[PRLHQ]

[PAVSGWRKLMEQT\*]R

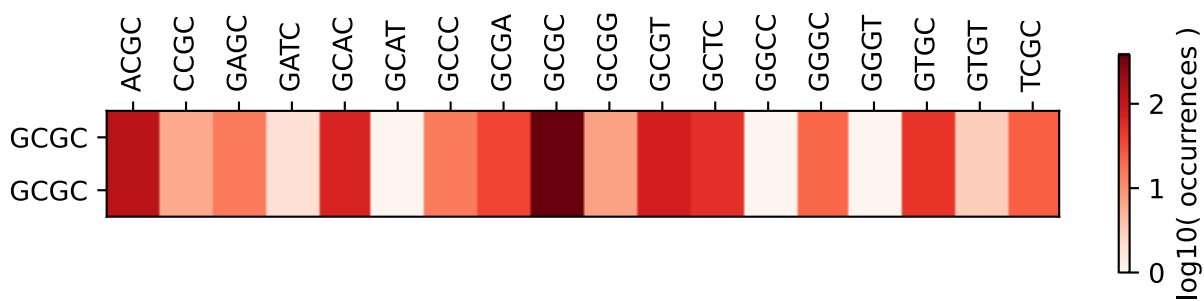
[CSGR][A]

A[PRLHQ]

[PAVSGWRKLMEQT\*]R

[CSGR][A]

Misannealing overhangs:





# CCGC

# GCGG

Extreme GC content: 100 %.

Can form the following amino acids in 6 translation frames:

P[PRLHQ]

[PDANVYSIGRCLHFT]R

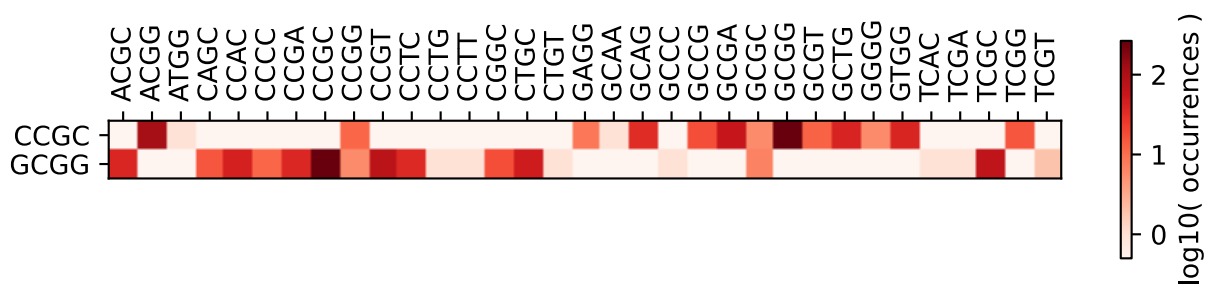
[PSAT][A]

A[ADVGE]

[PAVSGWRKLMEQT\*]R

[CSGR][G]

Misannealing overhangs:





# ACGC

# GCGT

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

T[PRLHQ]

[PAVISGRKLEQT\*]R

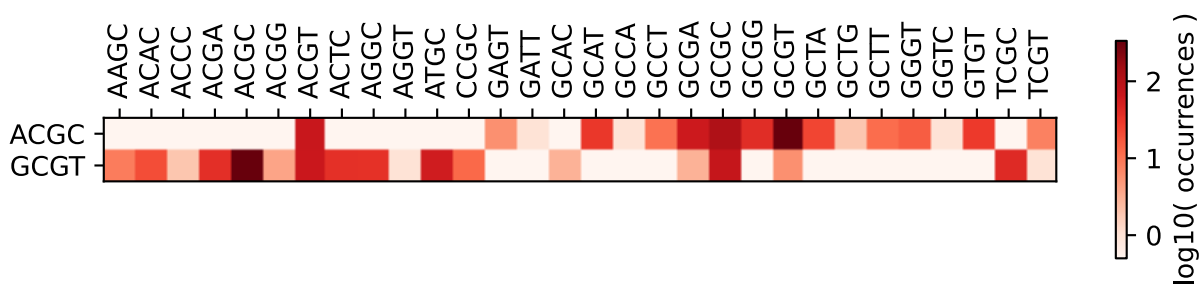
[YDHN][A]

A[YSWCLF\*]

[PAVSGWRKLMEQT\*]R

[CSGR][V]

Misannealing overhangs:





# CAGC

# GCTG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

Q[PRLHQ]

[PDANVYSIGRCLHFT]S

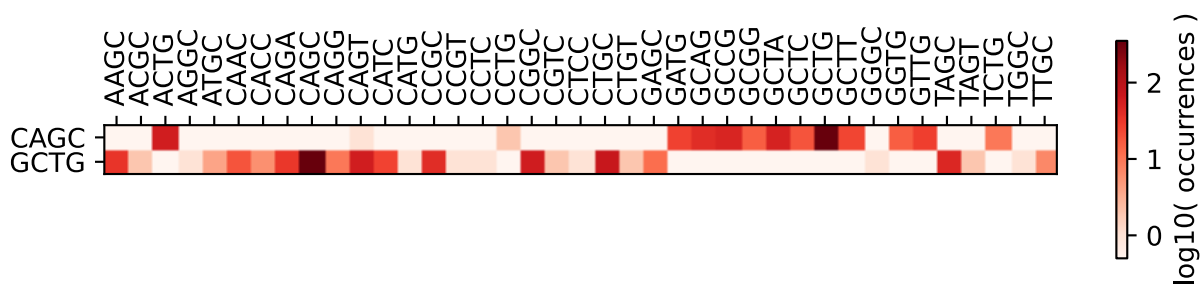
[PSAT][A]

A[ADVGE]

[PAVSGWRKLMEQT\*]L

[CSGR][CW\*]

Misannealing overhangs:





# AAGC

# GCTT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

K[PRLHQ]

[PAVISGRKLEQT\*]S

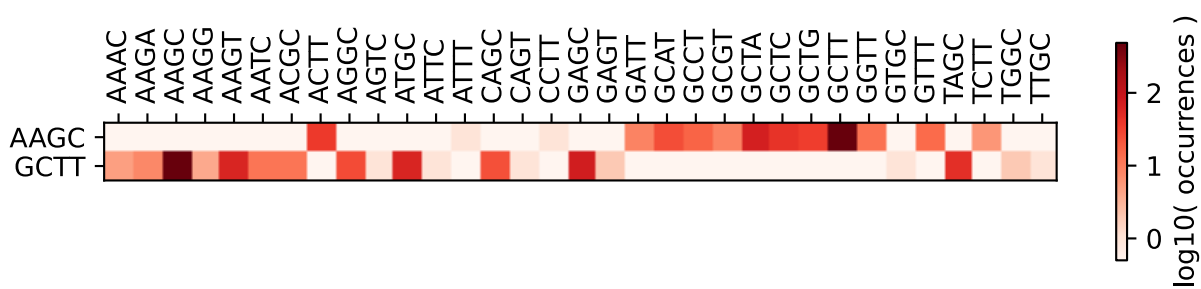
[EQK\*][A]

A[YSWCLF\*]

[PAVSGWRKLMEQT\*]L

[CSGR][LF]

Misannealing overhangs:





# GGAA

# TTCC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

G[NISRKMT]

[PAVSGWRKLMEQT\*]E

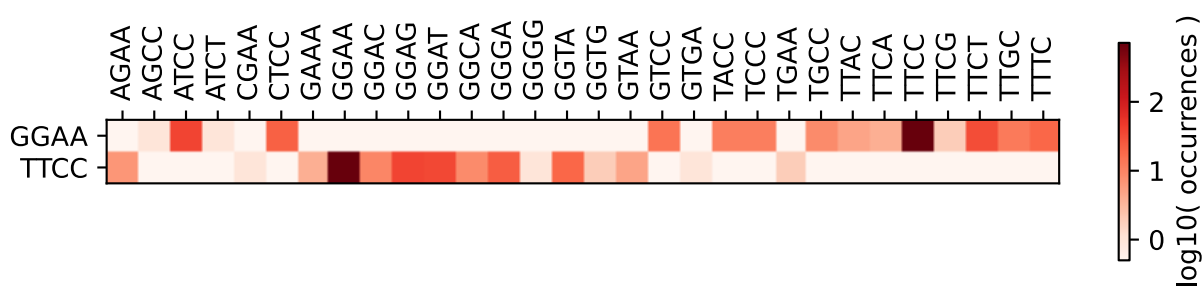
[GWR][NK]

F[PRLHQ]

[PDANVYSIGRCLHFT]S

[LIFV][P]

Misannealing overhangs:







# GGAC

# GTCC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

G[PRLHQ]

[PAVSGWRKLMEQT\*]D

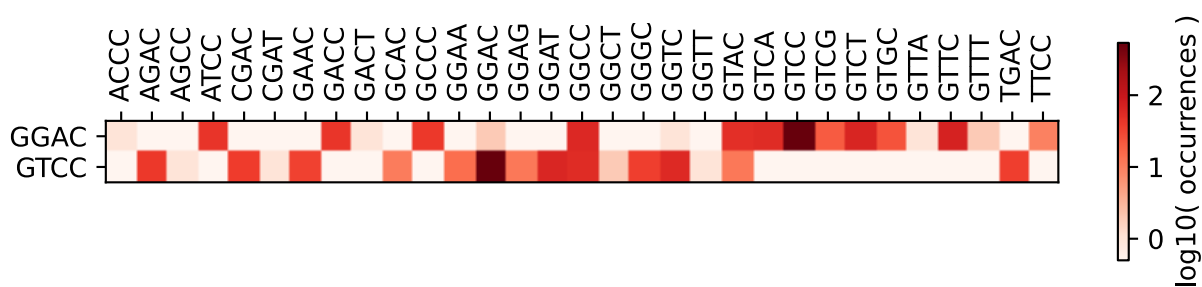
[GWR][T]

V[PRLHQ]

[PAVSGWRKLMEQT\*]S

[CSGR][P]

Misannealing overhangs:





# ATCC

# GGAT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

I[PRLHQ]

[PAVISGRKLEQT\*]S

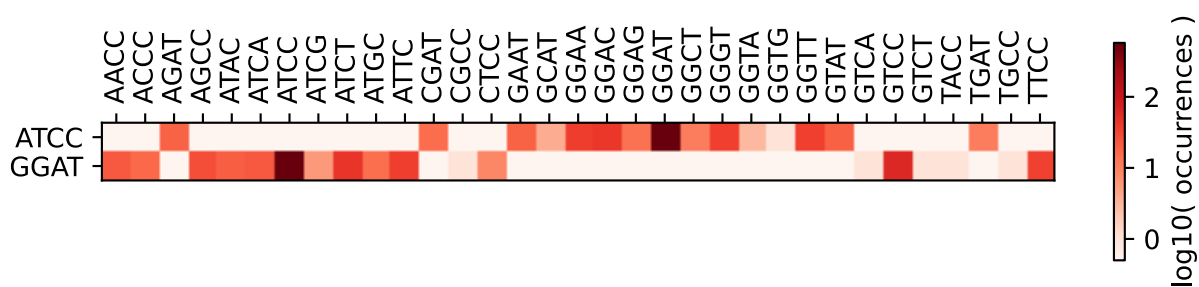
[YDHN][P]

G[YSWCLF\*]

[PAVSGWRKLMEQT\*]D

[GWR][IM]

Misannealing overhangs:





# GGCC

# GGCC

Extreme GC content: 100 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

G[PRLHQ]

[PAVSGWRKLMEQT\*]A

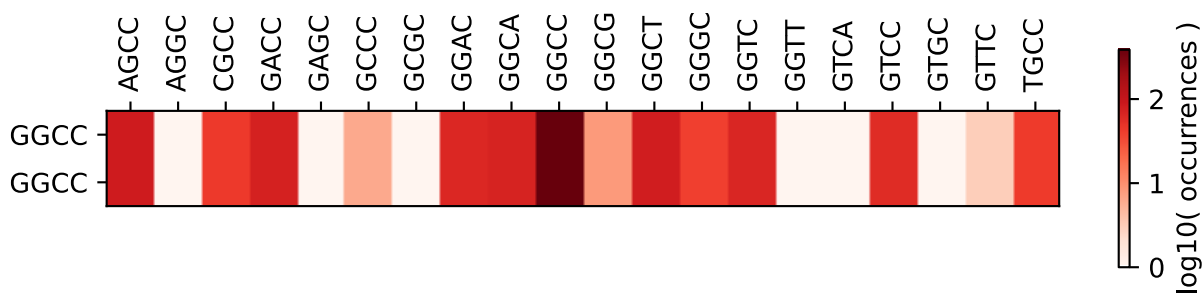
[GWR][P]

G[PRLHQ]

[PAVSGWRKLMEQT\*]A

[GWR][P]

Misannealing overhangs:





# GGGA

# TCCC

GC content: **75 %**.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

G[NISRKMT]

[PAVSGWRKLMEQT\*]G

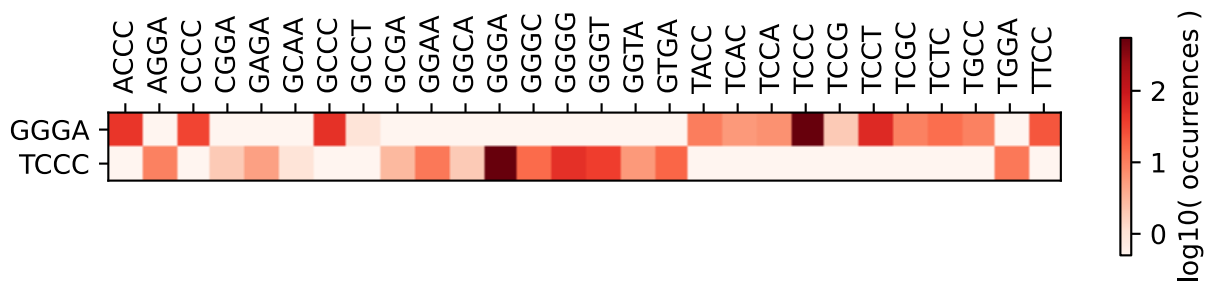
[GWR][ED]

S[PRLHQ]

[PDANVYSIGRCLHFT]P

[LIFV][P]

Misannealing overhangs:





# ACCC

# GGGT

GC content: **75 %**.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

T[PRLHQ]

[PAVISGRKLEQT\*]P

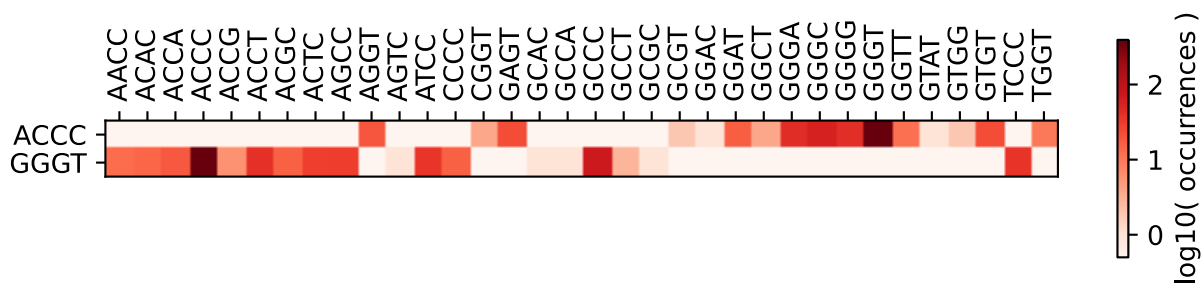
[YDHN][P]

G[YSWCLF\*]

[PAVSGWRKLMEQT\*]G

[GWR][V]

Misannealing overhangs:





# GGTA

# TACC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

G[NISRKMT]

[PAVSGWRKLMEQT\*]V

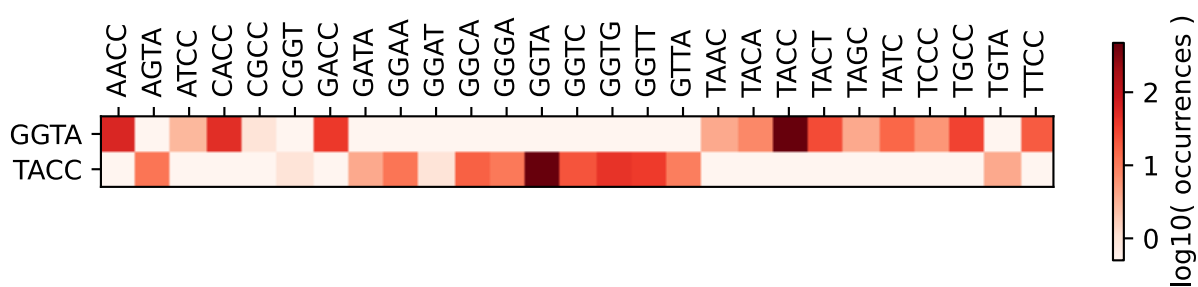
[GWR][Y\*]

Y[PRLHQ]

[PDANVYSIGRCLHFT]T

[LIV][P]

Misannealing overhangs:





# CACC

# GGTG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

H[PRLHQ]

[PDANVYSIGRCLHFT]T

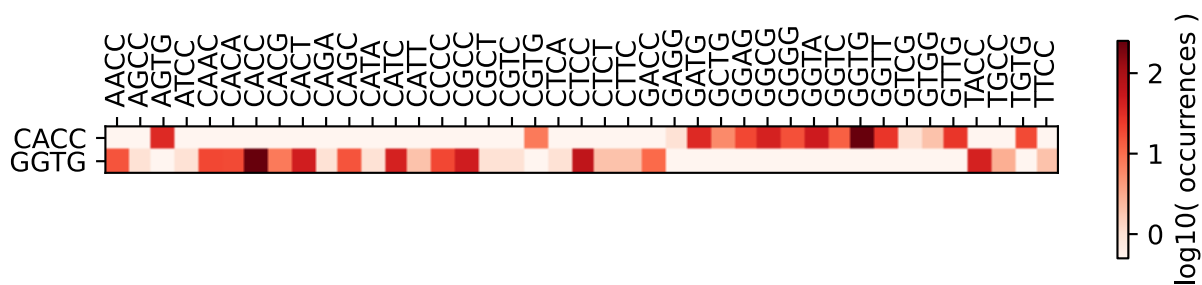
[PSAT][P]

G[ADVGE]

[PAVSGWRKLMEQT\*]V

[GWR][CW\*]

Misannealing overhangs:





# AACC

# GGTT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

N[PRLHQ]

[PAVISGRKLEQT\*]T

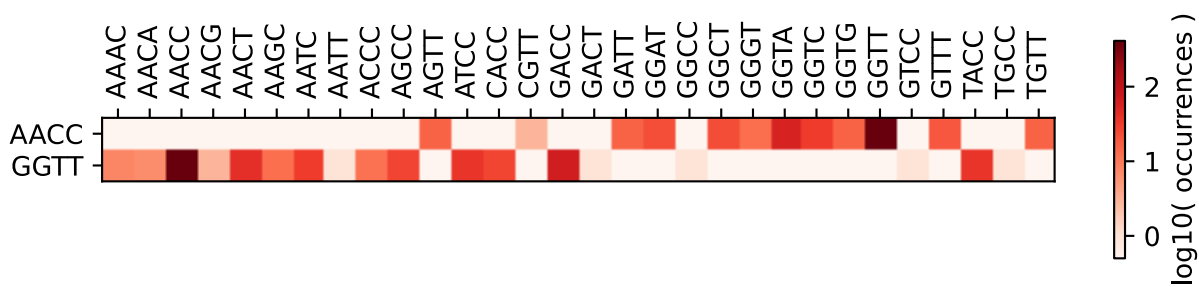
[EQK\*][P]

G[YSWCLF\*]

[PAVSGWRKLMEQT\*]V

[GWR][LF]

Misannealing overhangs:







# GTAA

# TTAC

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

V[NISRKMT]

[PAVSGWRKLMEQT\*]\*

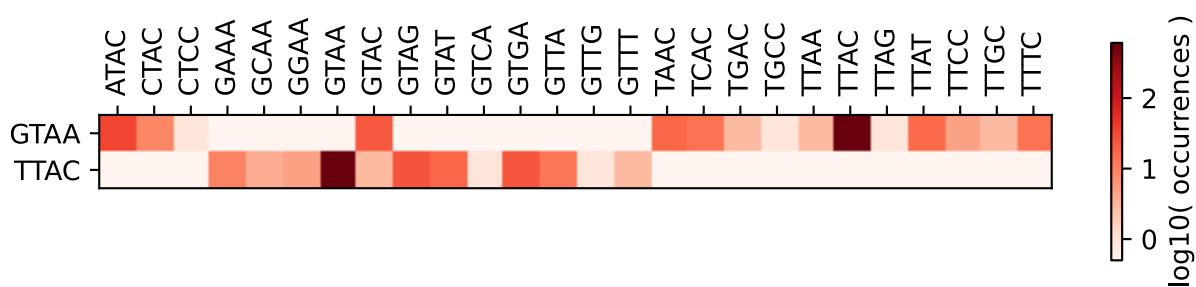
[CSGR][NK]

L[PRLHQ]

[PDANVYSIGRCLHFT]Y

[LIFV][T]

Misannealing overhangs:





# GTAC

# GTAC

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

V[PRLHQ]

[PAVSGWRKLMEQT\*]Y

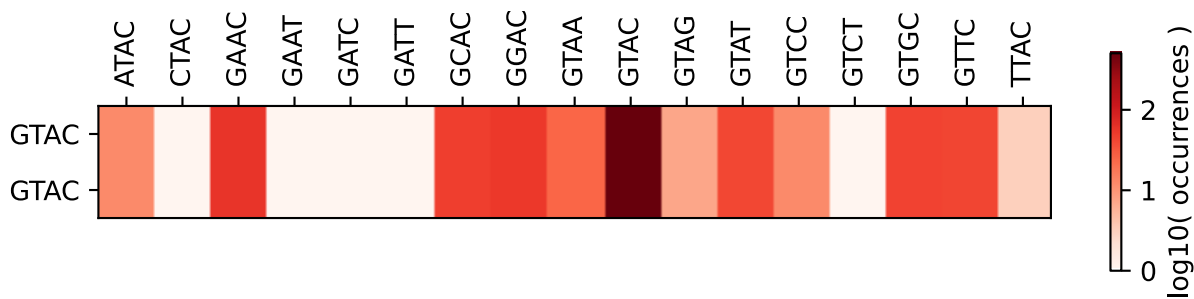
[CSGR][T]

V[PRLHQ]

[PAVSGWRKLMEQT\*]Y

[CSGR][T]

Misannealing overhangs:





# ATAC

# GTAT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

I[PRLHQ]

[PAVISGRKLEQT\*]Y

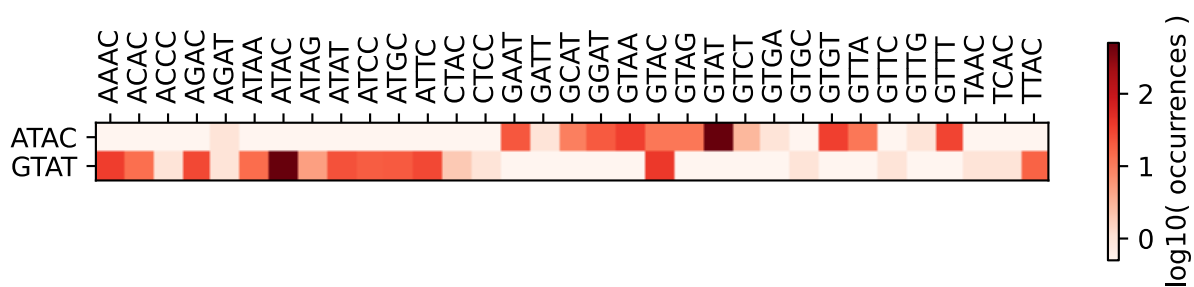
[YDHN][T]

V[YSWCLF\*]

[PAVSGWRKLMEQT\*]Y

[CSGR][IM]

Misannealing overhangs:





# GTCA

# TGAC

GC content: **50 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

V[NISRKMT]

[PAVSGWRKLMEQT\*]S

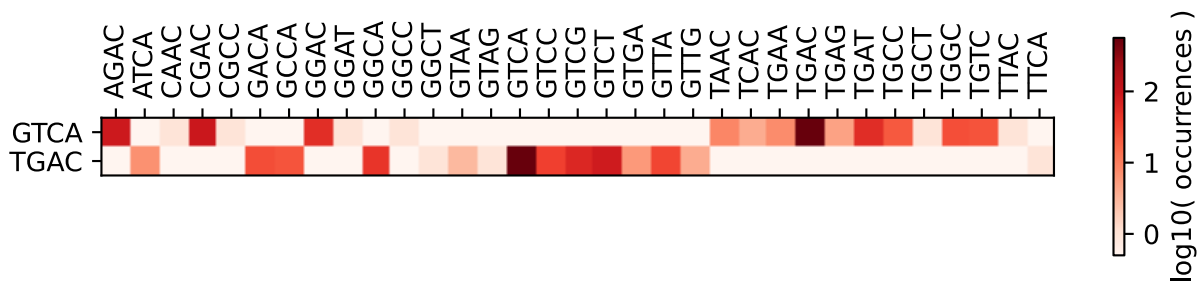
[CSGR][HQ]

\*[PRLHQ]

[PDANVYSIGRCLHFT]D

[LMV][T]

Misannealing overhangs:





# AGAC

# GTCT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

R[PRLHQ]

[PAVISGRKLEQT\*]D

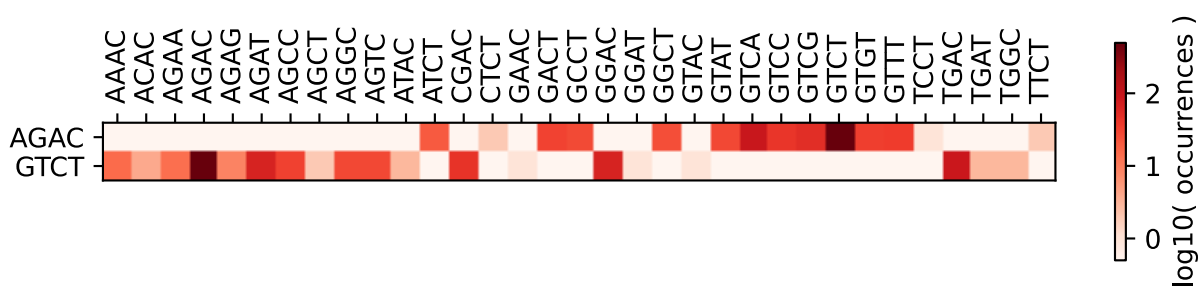
[EQK\*][T]

V[YSWCLF\*]

[PAVSGWRKLMEQT\*]S

[CSGR][L]

Misannealing overhangs:





# GCAC

# GTGC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

A[PRLHQ]

[PAVSGWRKLMEQT\*]H

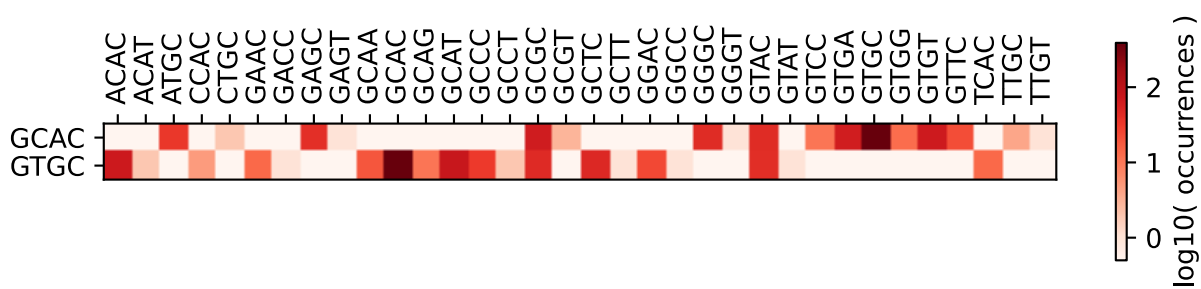
[CSGR][T]

V[PRLHQ]

[PAVSGWRKLMEQT\*]C

[CSGR][A]

Misannealing overhangs:





# AAAC

# GTTT

GC content: 25 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

K[PRLHQ]

[PAVISGRKLEQT\*]N

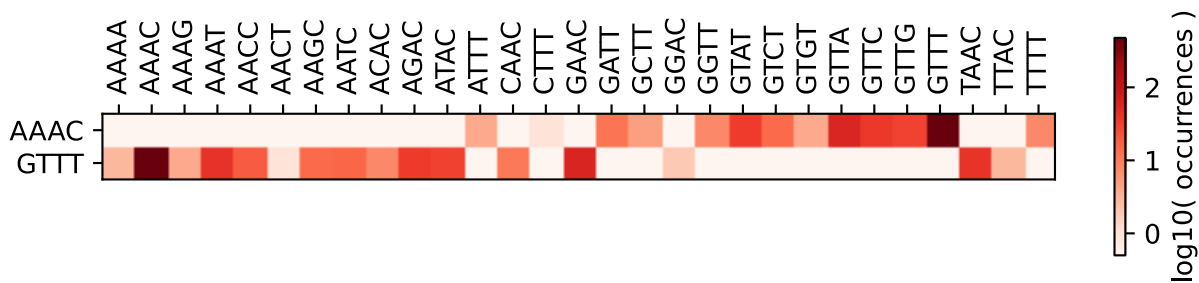
[EQK\*][T]

V[YSWCLF\*]

[PAVSGWRKLMEQT\*]F

[CSGR][LF]

Misannealing overhangs:





# TAAA

# TTTA

Extreme GC content: 0 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

\*[NISRKMT]

[PDANVYSIGRCLHFT]K

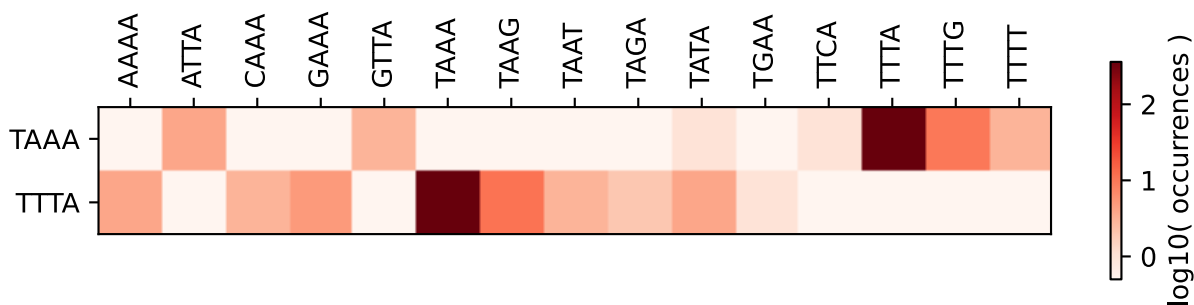
[LIV][NK]

F[NISRKMT]

[PDANVYSIGRCLHFT]L

[LIFV][Y\*]

Misannealing overhangs:







# GTTA

# TAAC

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

V[NISRKMT]

[PAVSGWRKLMEQT\*]L

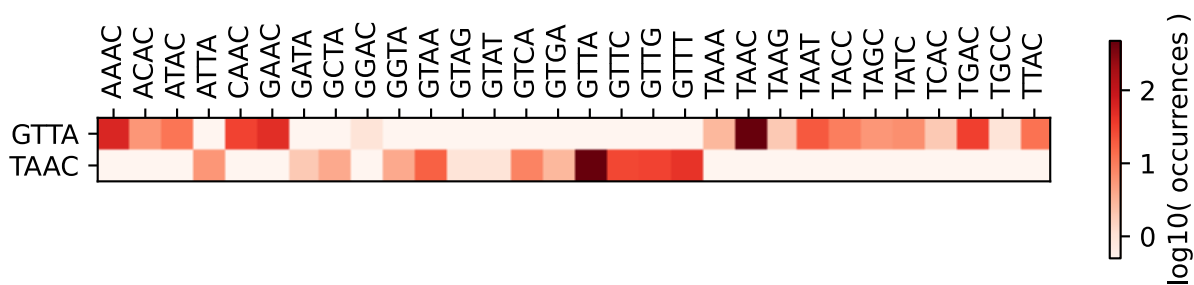
[CSGR][Y\*]

\*[PRLHQ]

[PDANVYSIGRCLHFT]N

[LIV][T]

Misannealing overhangs:





# ATTA

# TAAT

Extreme GC content: 0 %.

Can form the following amino acids in 6 translation frames:

I[NISRKMT]

[PAVISGRKLEQT\*]L

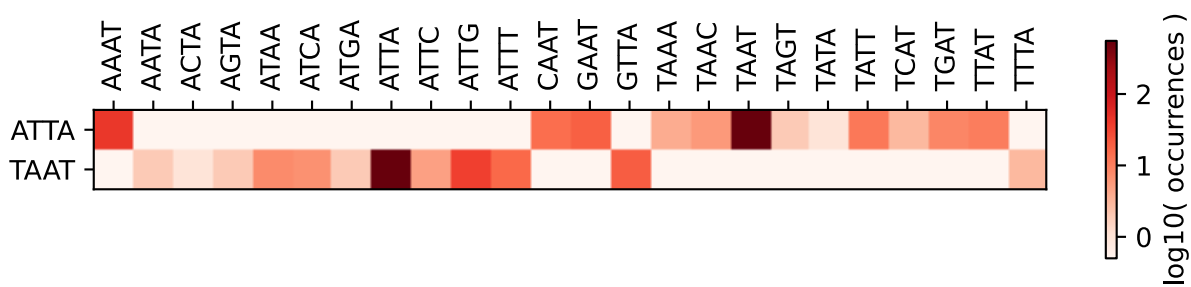
[YDHN][Y\*]

\*[YSWCLF\*]

[PDANVYSIGRCLHFT]N

[LIV][IM]

Misannealing overhangs:





# AGTA

# TACT

GC content: 25 %.

Can form the following amino acids in 6 translation frames:

S[NISRKMT]

[PAVISGRKLEQT\*]V

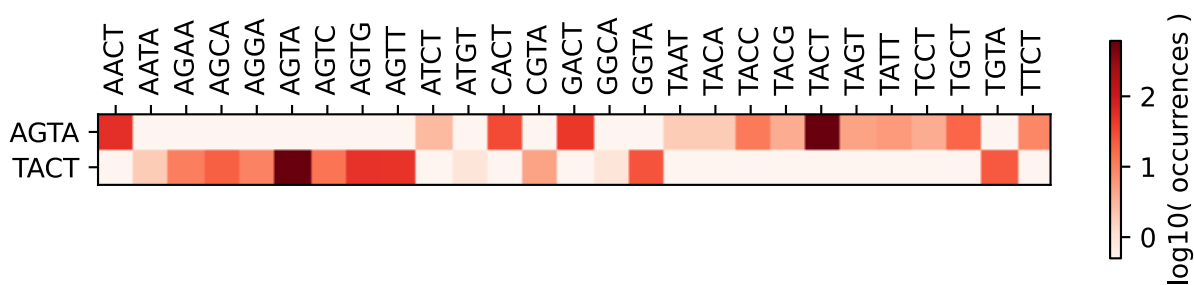
[EQK\*][Y\*]

Y[YSWCLF\*]

[PDANVYSIGRCLHFT]T

[LIV][L]

Misannealing overhangs:





# GCTA

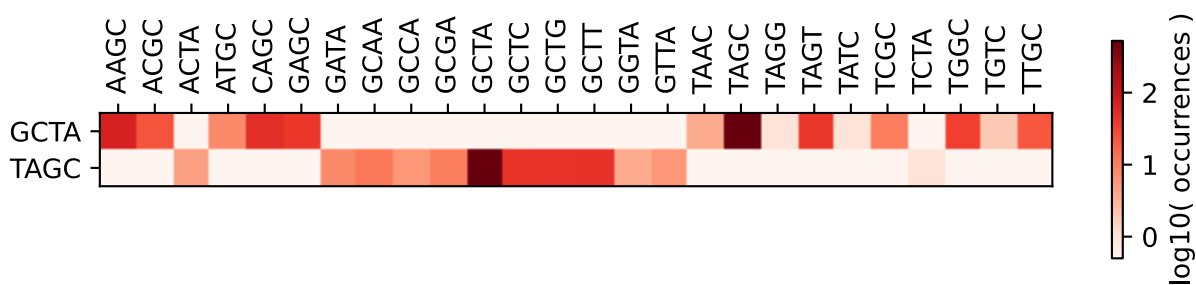
# TAGC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

A[NISRKMT]  
[PAVSGWRKLMEQT\*]L  
[CSGR][Y\*]  
\*[PRLHQ]  
[PDANVYSIGRCLHFT]S  
[LIV][A]

Misannealing overhangs:





# TATA

# TATA

Extreme GC content: 0 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

Y[NISRKMT]

[PDANVYSIGRCLHFT]I

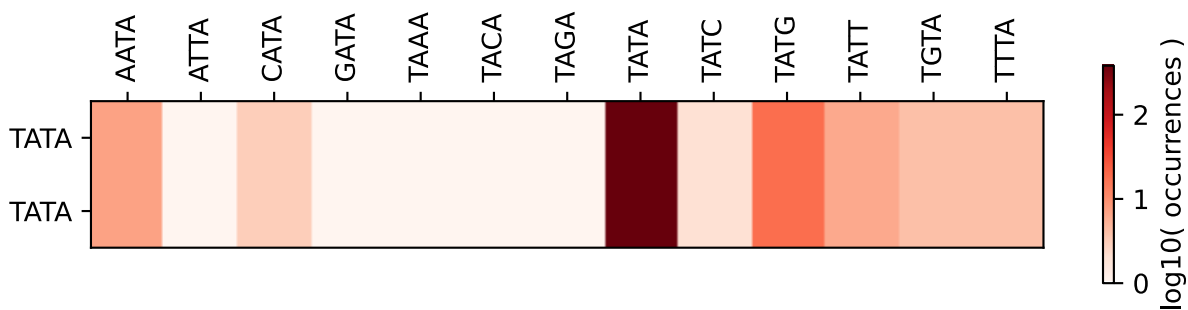
[LIV][Y\*]

Y[NISRKMT]

[PDANVYSIGRCLHFT]I

[LIV][Y\*]

Misannealing overhangs:





# CATA

# TATG

GC content: 25 %.

The overhang contains the start codon ATG.

Can form the following amino acids in 6 translation frames:

H[NISRKMT]

[PDANVYSIGRCLHFT]I

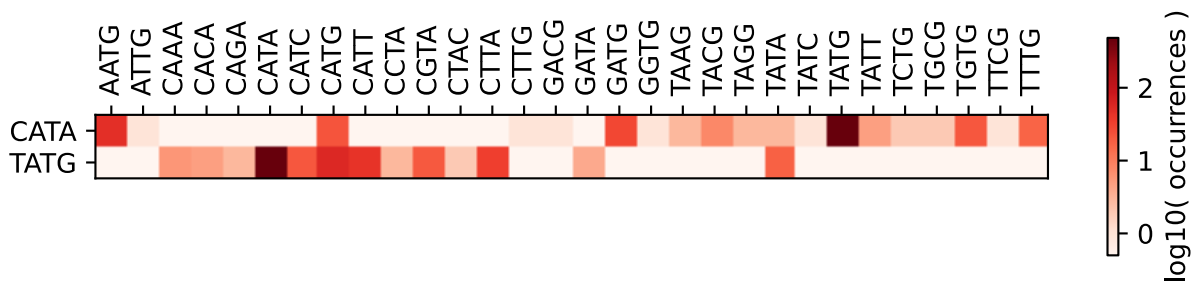
[PSAT][Y\*]

Y[ADVGE]

[PDANVYSIGRCLHFT]M

[LIV][CW\*]

Misannealing overhangs:





# AATA

# TATT

Extreme GC content: 0 %.

Can form the following amino acids in 6 translation frames:

N[NISRKMT]

[PAVISGRKLEQT\*]I

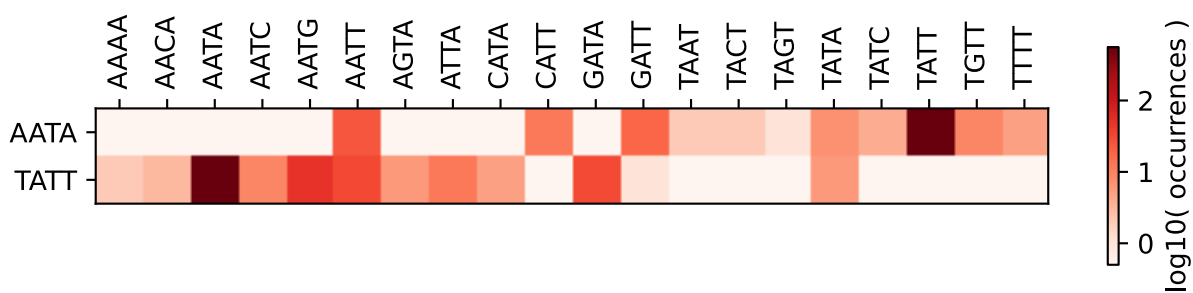
[EQK\*][Y\*]

Y[YSWCLF\*]

[PDANVYSIGRCLHFT]I

[LIV][LF]

Misannealing overhangs:





# TCAA

# TTGA

GC content: **25 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

S[NISRKMT]

[PDANVYSIGRCLHFT]Q

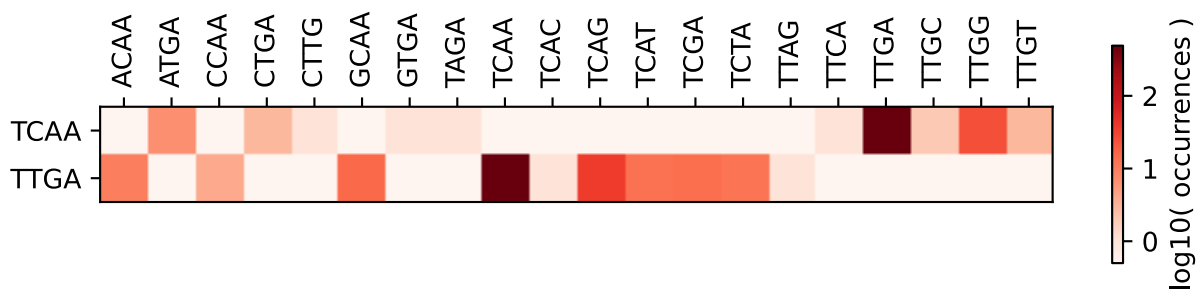
[LIFV][NK]

L[NISRKMT]

[PDANVYSIGRCLHFT]\*

[LIFV][ED]

Misannealing overhangs:







# GTGA

# TCAC

GC content: **50 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

V[NISRKMT]

[PAVSGWRKLMEQT\*]\*

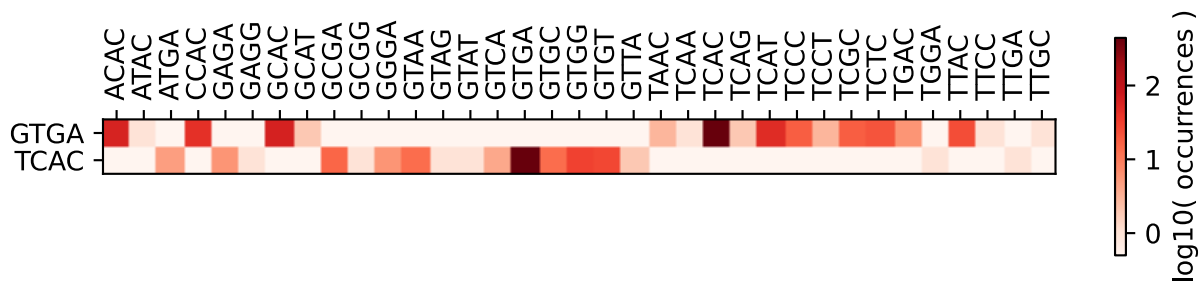
[CSGR][ED]

S[PRLHQ]

[PDANVYSIGRCLHFT]H

[LIFV][T]

Misannealing overhangs:





# CTGA

# TCAG

GC content: **50 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

L[NISRKMT]

[PDANVYSIGRCLHFT]\*

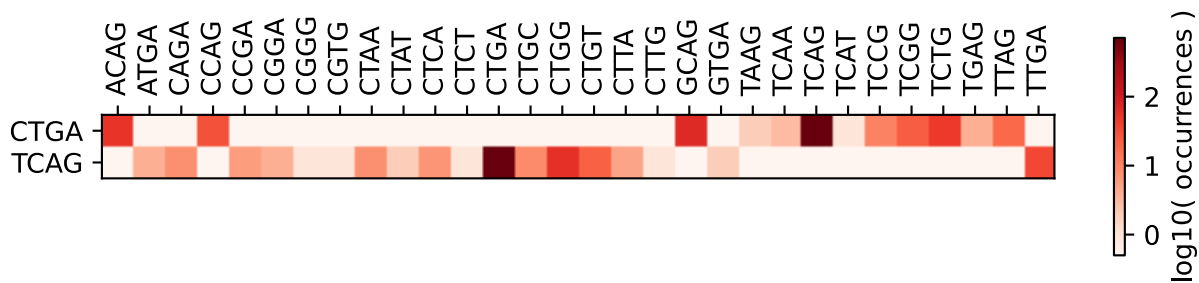
[PSAT][ED]

S[ADVGE]

[PDANVYSIGRCLHFT]Q

[LIFV][SR]

Misannealing overhangs:





# ATGA

# TCAT

GC content: **25 %**.

The overhang contains the start codon ATG.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

M[NISRKMT]

[PAVISGRKLEQT\*]\*

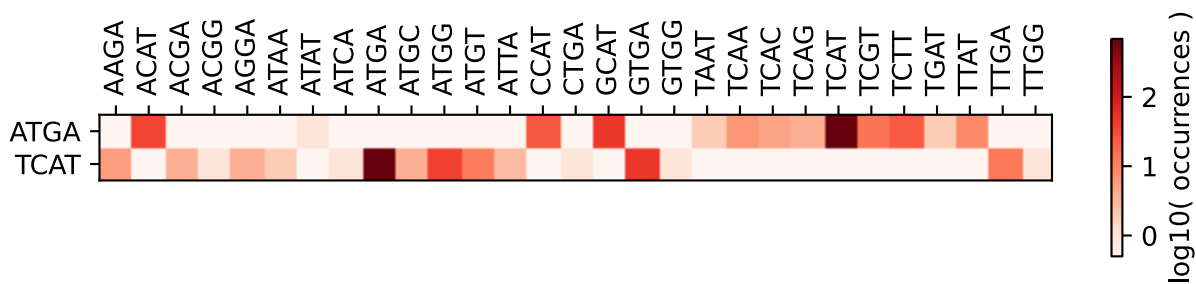
[YDHN][ED]

S[YSWCLF\*]

[PDANVYSIGRCLHFT]H

[LIFV][IM]

Misannealing overhangs:





# TCGA

# TCGA

GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

S[NISRKMT]

[PDANVYSIGRCLHFT]R

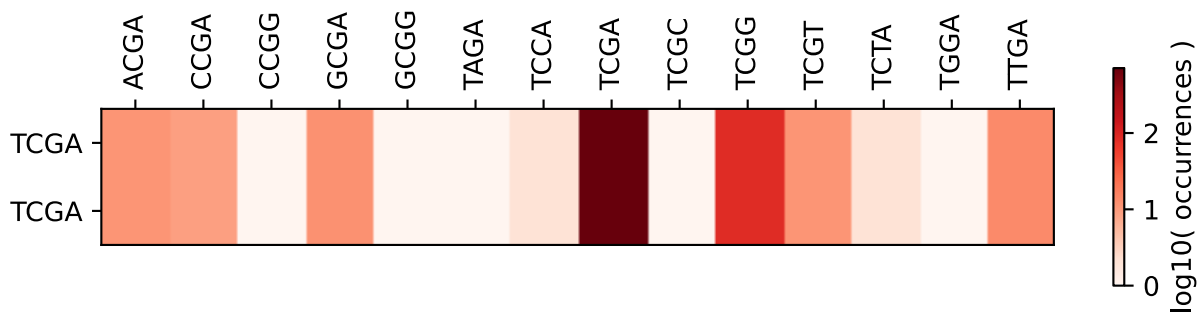
[LIFV][ED]

S[NISRKMT]

[PDANVYSIGRCLHFT]R

[LIFV][ED]

Misannealing overhangs:





# GCGA

# TCGC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

A[NISRKMT]

[PAVSGWRKLMEQT\*]R

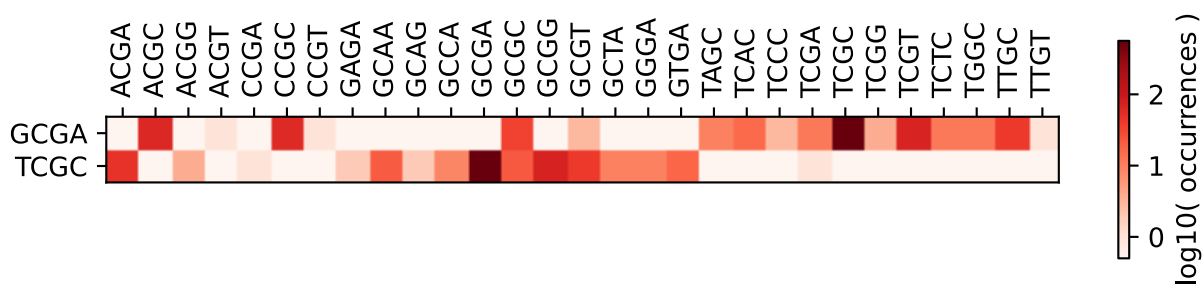
[CSGR][ED]

S[PRLHQ]

[PDANVYSIGRCLHFT]R

[LIFV][A]

Misannealing overhangs:





# CCGA

# TCGG

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

P[NISRKMT]

[PDANVYSIGRCLHFT]R

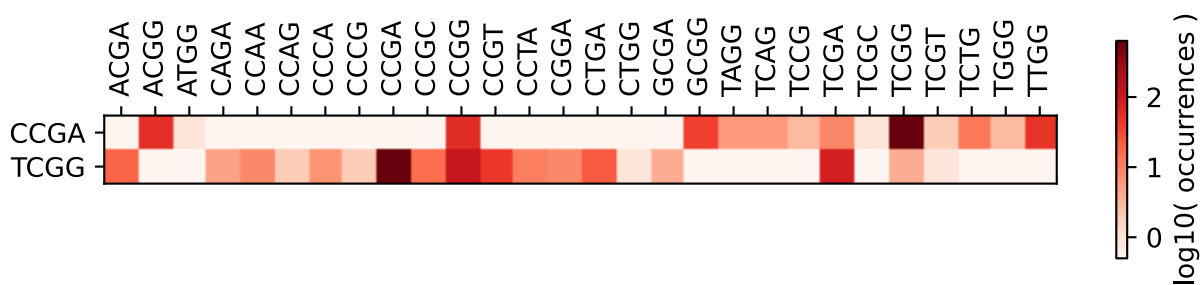
[PSAT][ED]

S[ADVGE]

[PDANVYSIGRCLHFT]R

[LIFV][G]

Misannealing overhangs:





# TAGA

# TCTA

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

\*[NISRKMT]

[PDANVYSIGRCLHFT]R

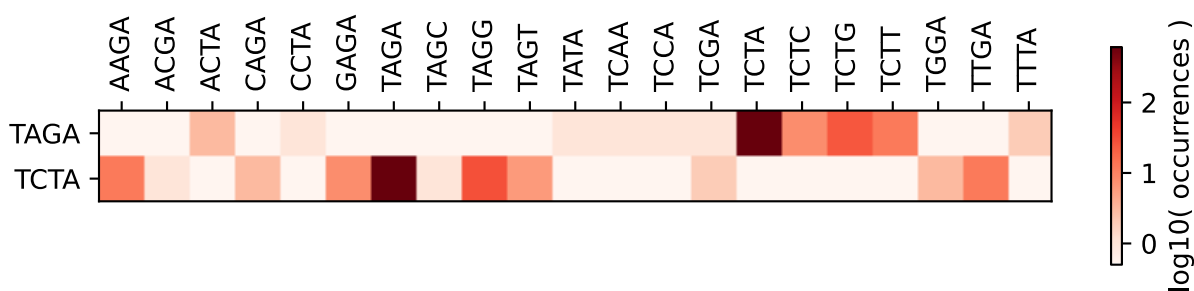
[LIV][ED]

S[NISRKMT]

[PDANVYSIGRCLHFT]L

[LIFV][Y\*]

Misannealing overhangs:





# GAGA

# TCTC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

E[NISRKMT]

[PAVSGWRKLMEQT\*]R

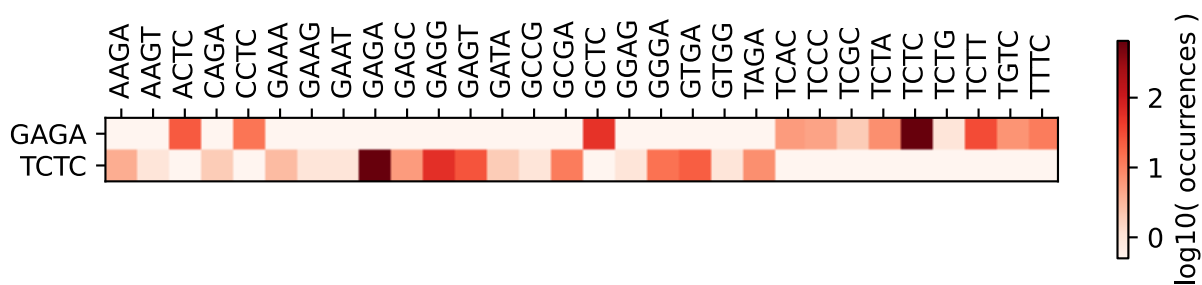
[GR\*][ED]

S[PRLHQ]

[PDANVYSIGRCLHFT]L

[LIFV][S]

Misannealing overhangs:







# CTCA

# TGAG

GC content: **50 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

L[NISRKMT]

[PDANVYSIGRCLHFT]S

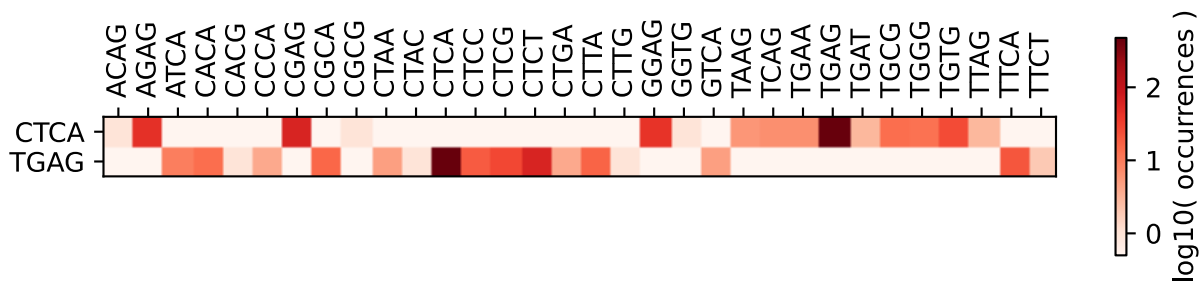
[PSAT][HQ]

\*[ADVGE]

[PDANVYSIGRCLHFT]E

[LMV][SR]

Misannealing overhangs:





# ATCA

# TGAT

GC content: 25 %.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

I[NISRKMT]

[PAVISGRKLEQT\*]S

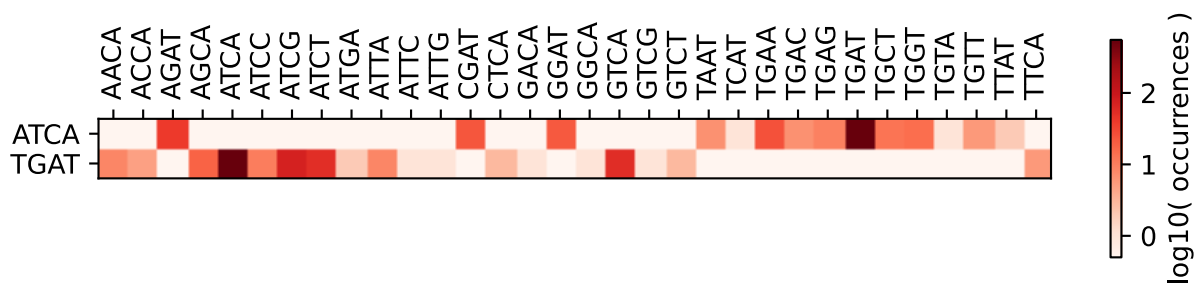
[YDHN][HQ]

\*[YSWCLF\*]

[PDANVYSIGRCLHFT]D

[LMV][IM]

Misannealing overhangs:





# TGCA

# TGCA

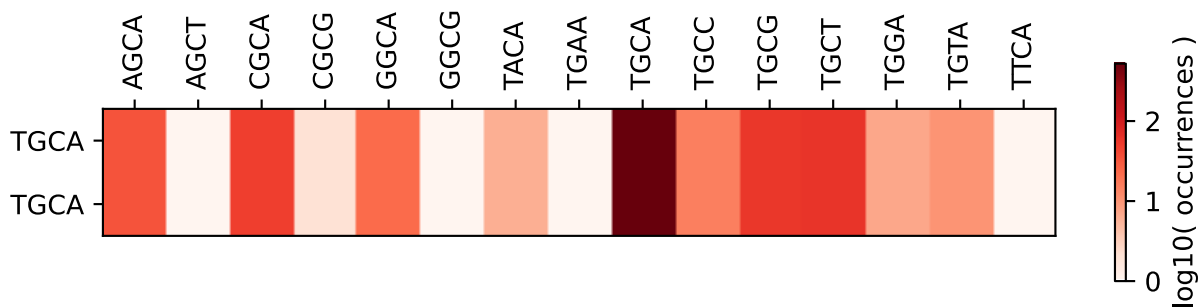
GC content: 50 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

C[NISRKMT]  
[PDANVYSIGRCLHFT]A  
[LMV][HQ]  
C[NISRKMT]  
[PDANVYSIGRCLHFT]A  
[LMV][HQ]

Misannealing overhangs:





# GGCA

# TGCC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

G[NISRKMT]

[PAVSGWRKLMEQT\*]A

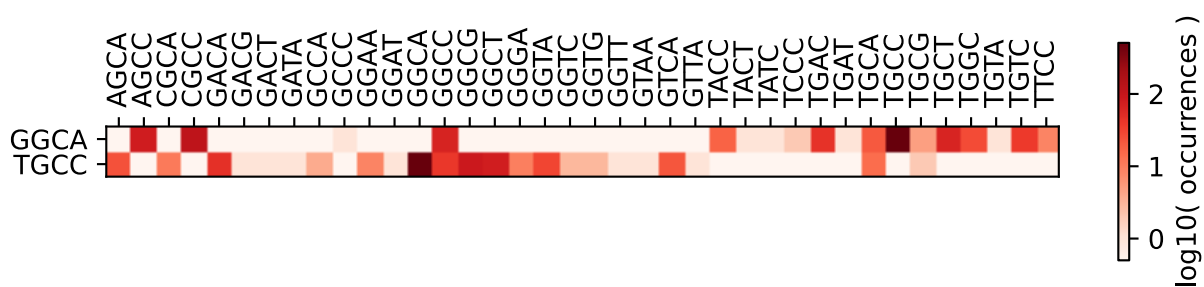
[GWR][HQ]

C[PRLHQ]

[PDANVYSIGRCLHFT]A

[LMV][P]

Misannealing overhangs:





# TCCA

# TGGA

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

S[NISRKMT]

[PDANVYSIGRCLHFT]P

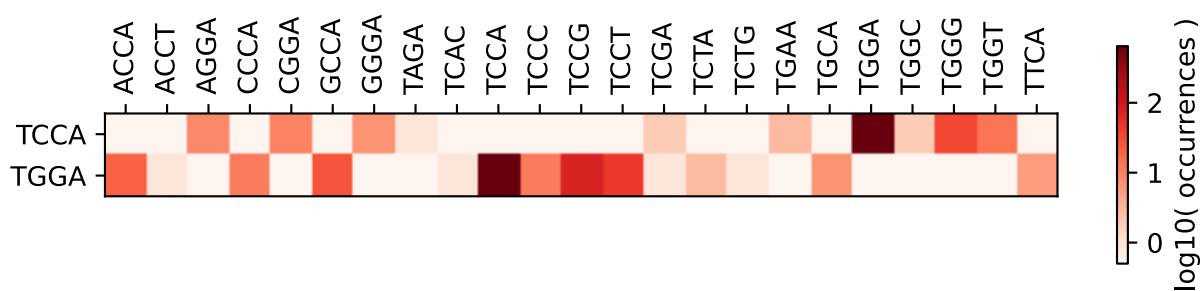
[LIFV][HQ]

W[NISRKMT]

[PDANVYSIGRCLHFT]G

[LMV][ED]

Misannealing overhangs:





# GCCA

# TGGC

GC content: **75 %**.

Can form the following amino acids in 6 translation frames:

A[NISRKMT]

[PAVSGWRKLMEQT\*]P

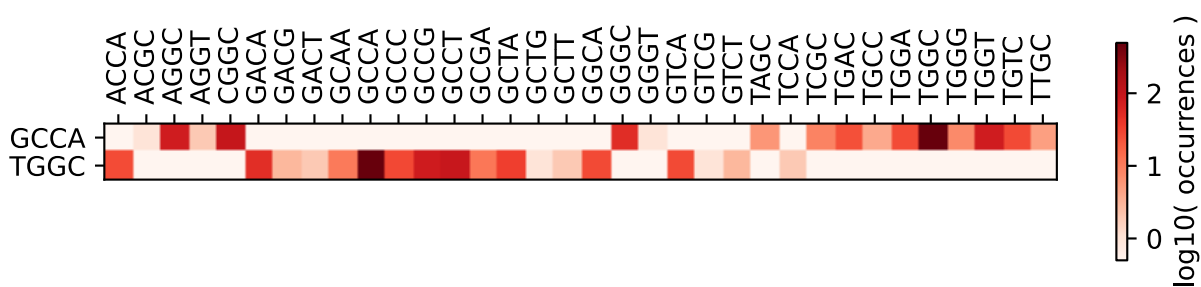
[CSGR][HQ]

W[PRLHQ]

[PDANVYSIGRCLHFT]G

[LMV][A]

Misannealing overhangs:





# ACCA

# TGGT

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

T[NISRKMT]

[PAVISGRKLEQT\*]P

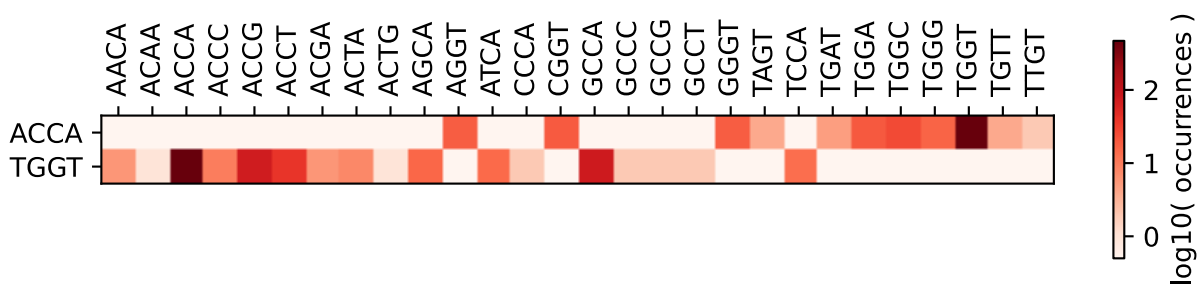
[YDHN][HQ]

W[YSWCLF\*]

[PDANVYSIGRCLHFT]G

[LMV][V]

Misannealing overhangs:





# TACA

# TGTA

GC content: 25 %.

Can form the following amino acids in 6 translation frames:

Y[NISRKMT]

[PDANVYSIGRCLHFT]T

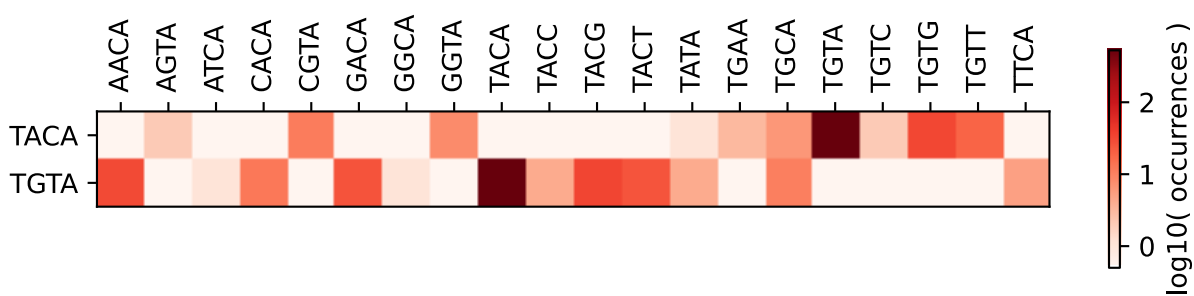
[LIV][HQ]

C[NISRKMT]

[PDANVYSIGRCLHFT]V

[LMV][Y\*]

Misannealing overhangs:







# GACA

# TGTC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

D[NISRKMT]

[PAVSGWRKLMEQT\*]T

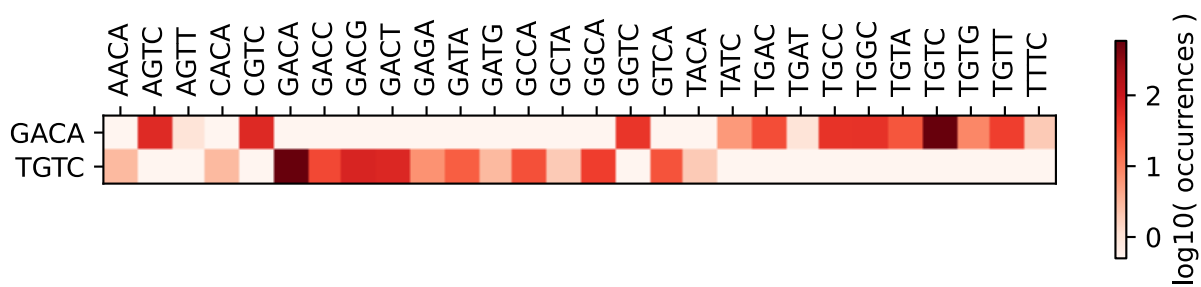
[GR\*][HQ]

C[PRLHQ]

[PDANVYSIGRCLHFT]V

[LMV][S]

Misannealing overhangs:





# AACA

# TGTT

GC content: **25 %**.

Can form the following amino acids in 6 translation frames:

N[NISRKMT]

[PAVISGRKLEQT\*]T

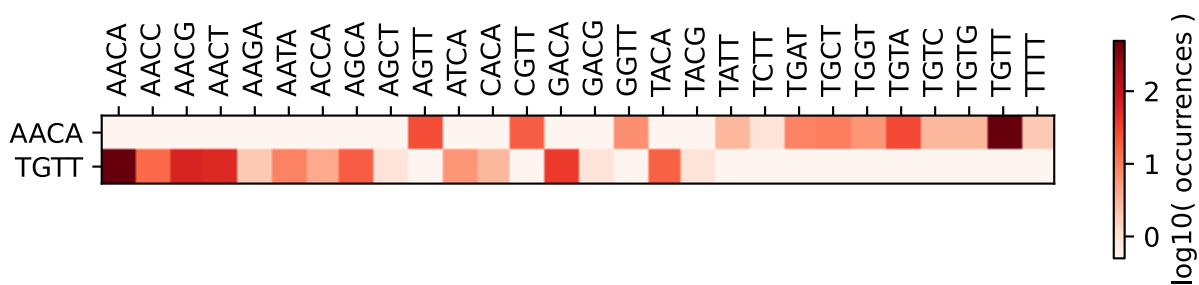
[EQK\*][HQ]

C[YSWCLF\*]

[PDANVYSIGRCLHFT]V

[LMV][LF]

Misannealing overhangs:





TTAA

TTAA

Extreme GC content: 0 %.

The overhang is palindromic, cannot be used for DNA assembly.

Can form the following amino acids in 6 translation frames:

L[NISRKMT]

[PDANVYSIGRCLHFT]\*

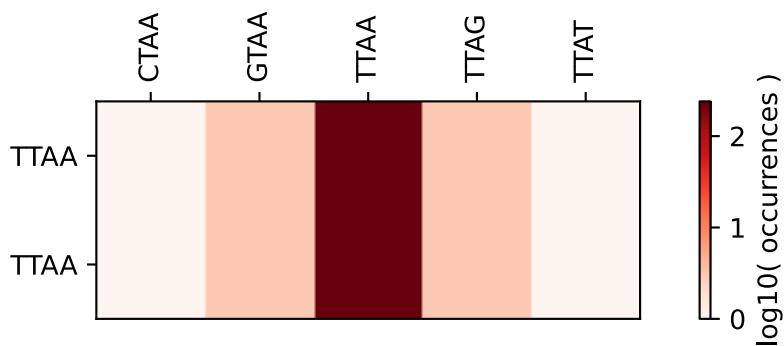
[LIFV][NK]

L[NISRKMT]

[PDANVYSIGRCLHFT]\*

[LIFV][NK]

Misannealing overhangs:





# ATAA

# TTAT

Extreme GC content: 0 %.

Can form the following amino acids in 6 translation frames:

I[NISRKMT]

[PAVISGRKLEQT\*]\*

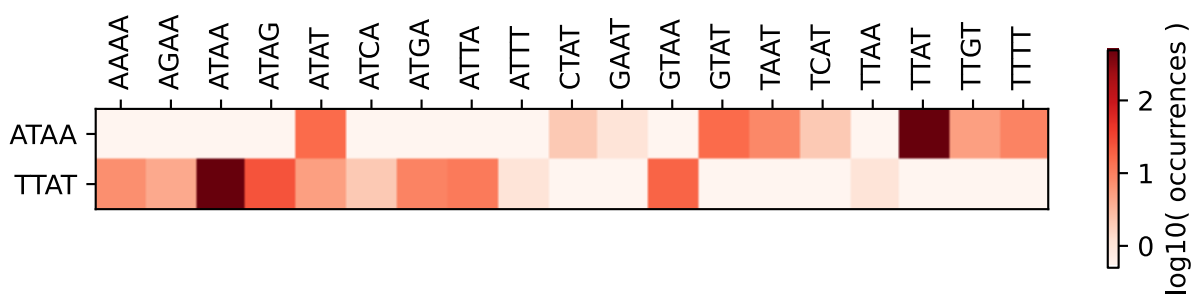
[YDHN][NK]

L[YSWCLF\*]

[PDANVYSIGRCLHFT]Y

[LIFV][IM]

Misannealing overhangs:





# TGAA

# TTCA

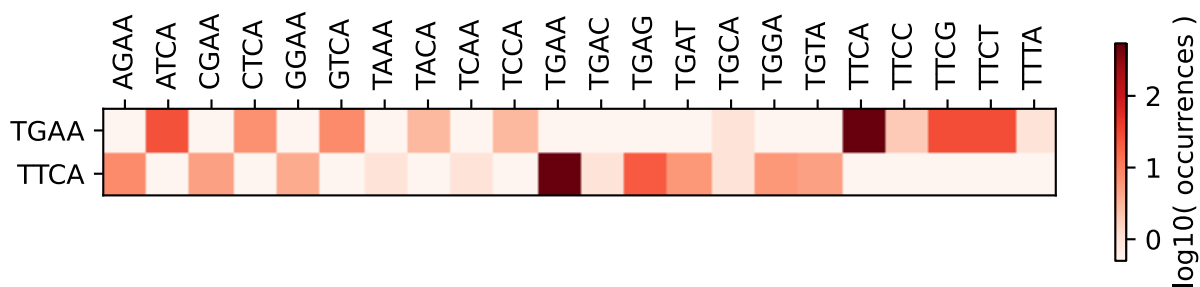
GC content: **25 %**.

The overhang contains a stop codon (TAA, TAG or TGA).

Can form the following amino acids in 6 translation frames:

\*[NISRKMT]  
[PDANVYSIGRCLHFT]E  
[LMV][NK]  
F[NISRKMT]  
[PDANVYSIGRCLHFT]S  
[LIFV][HQ]

Misannealing overhangs:





# GCAA

# TTGC

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

A[NISRKMT]

[PAVSGWRKLMEQT\*]Q

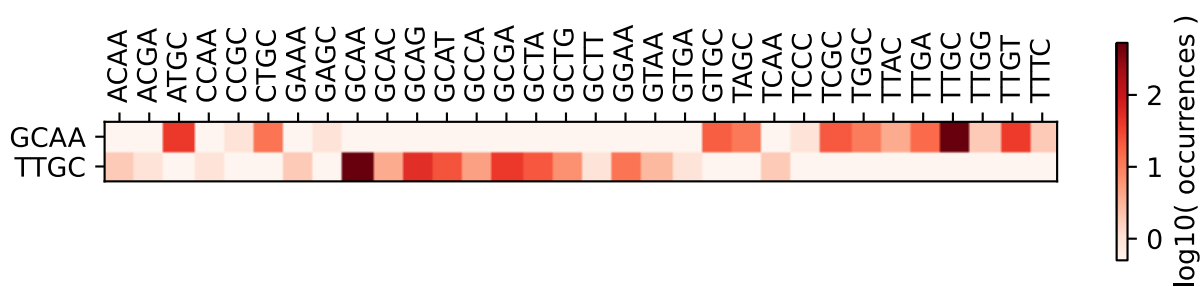
[CSGR][NK]

L[PRLHQ]

[PDANVYSIGRCLHFT]C

[LIFV][A]

Misannealing overhangs:





# CCAA

# TTGG

GC content: **50 %**.

Can form the following amino acids in 6 translation frames:

P[NISRKMT]

[PDANVYSIGRCLHFT]Q

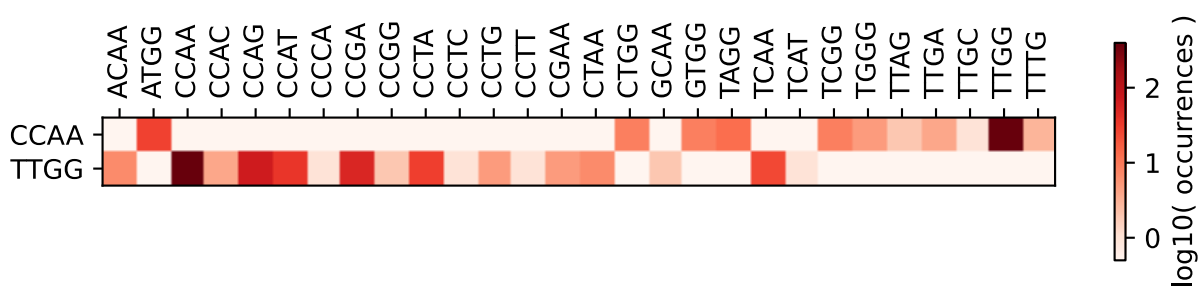
[PSAT][NK]

L[ADVGE]

[PDANVYSIGRCLHFT]W

[LIFV][G]

Misannealing overhangs:





# GAAA

# TTTC

GC content: 25 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

E[NISRKMT]

[PAVSGWRKLMEQT\*]K

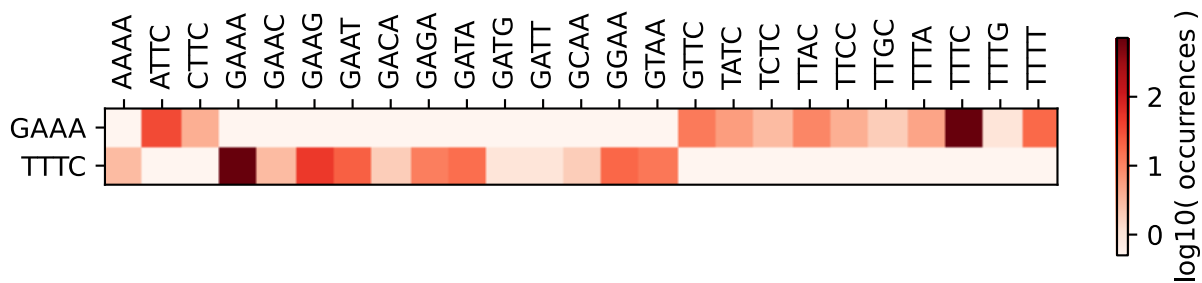
[GR\*][NK]

F[PRLHQ]

[PDANVYSIGRCLHFT]F

[LIFV][S]

Misannealing overhangs:







# CAAA

# TTTG

GC content: 25 %.

Has 3 identical bases in a row. However, this has not shown to be very important.

Can form the following amino acids in 6 translation frames:

Q[NISRKMT]

[PDANVYSIGRCLHFT]K

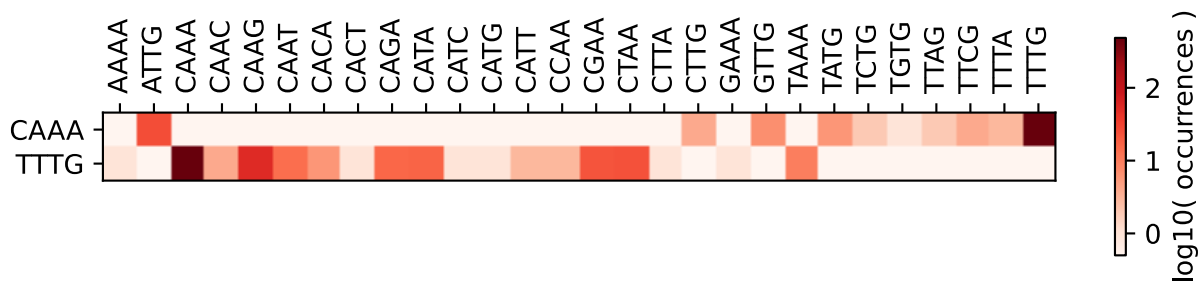
[PSAT][NK]

F[ADVGE]

[PDANVYSIGRCLHFT]L

[LIFV][CW\*]

Misannealing overhangs:



# Appendix

The report consists of 3 sections: summary, overhangs, appendix.

## Summary page(s)

The first page summarises the compendium.

## Overhang pages

Each overhang is analysed separately. The result is summarised with a symbol:

☑ : good overhang

☒ : unusable palindromic sequence

**Overhangs** are unpaired nucleotides at the end of a double-stranded linear DNA molecule. Overhangs can be on either strand; 5' or 3' overhangs. After DNA ligation with another DNA with a complementary overhang, these remain in the sequence as fusion sites ("scars").

### Overhang sets

Use the [GoldenHinges](#) Python package to generate a set of mutually compatible overhangs that can be used for DNA assembly.