



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

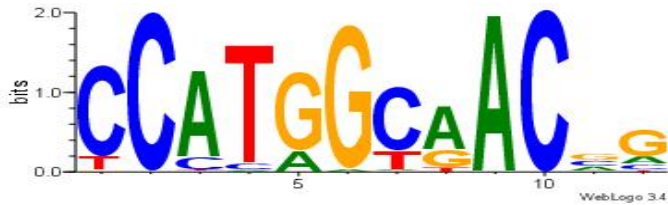
INPUT

Input Parameters		
Number of files:	2	
Number of top significant motifs:	1	
Number of best matches:	1	
Similarity cutoff >=	0.75	
Matching motif database:	Jaspar Core	
Motif tree:	Yes	
Combined similar motifs:	Yes	
Output file type:	All	
Output file format:	All	
Input files and motif counts		
File name	Count of motifs	Dataset number
U20231121_R_11-21-23_1450_InsertFile1.txt	57	1
U20231121_R_11-21-23_1450_InsertFile2.txt	57	2

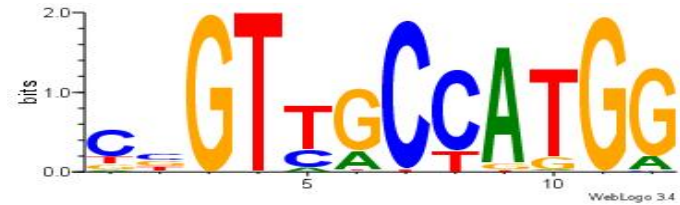
RESULTS

Top 1 Significant Motifs - Global Matching (Highest to Lowest)		
Dataset #: 2	Motif ID: 72	Motif name: Motif 72

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG

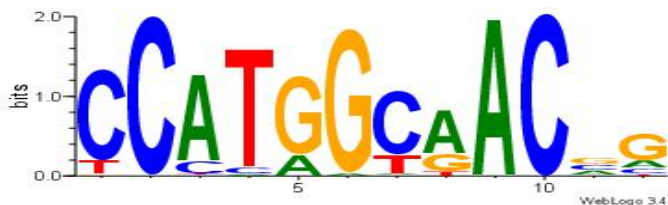


Best Matches for Top Significant Motif ID 72 (Highest to Lowest)

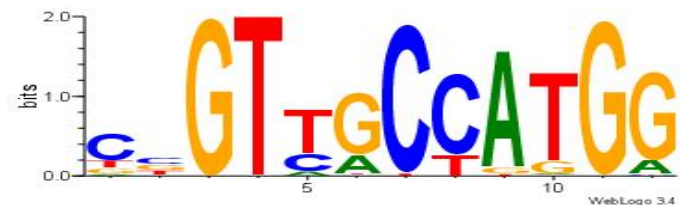
Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0

Alignment:
CCATGGCAACVG
CCATGGCAACVG

Original motif Consensus sequence: CCATGGCAACVG



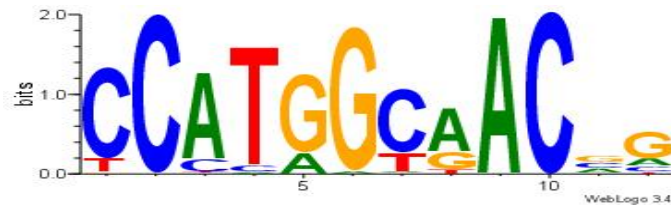
Reverse complement motif Consensus sequence: CVGTTGCCATGG



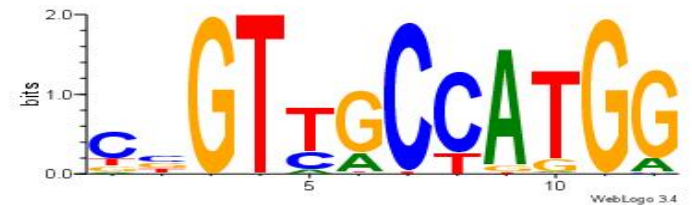
Significant Motifs - Global and Local Matching (Highest to Lowest)

Dataset #: 2 Motif ID: 72 Motif name: Motif 72

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG



Best Matches for Significant Motif ID 72 (Highest to Lowest)

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0

Alignment:
 CCATGGCAACVG
 CCATGGCAACVG

Original motif Consensus sequence: CCATGGCAACVG

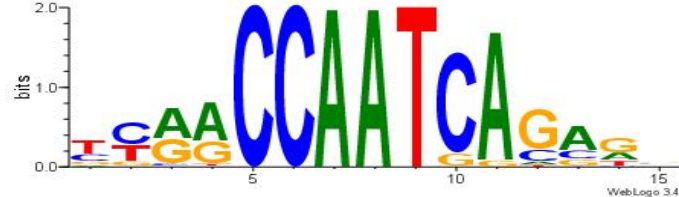
Reverse complement motif Consensus sequence: CVGTTGCCATGG



Best Matches for Each Motif (Highest to Lowest)

Dataset #: 1 Motif ID: 1 Motif name: Motif 1

Original motif Consensus sequence: YRRCCAATCAGAGV



Reverse complement motif Consensus sequence: VCTCTGATTGGKK



Best Matches for Motif ID 1 (Highest to Lowest)

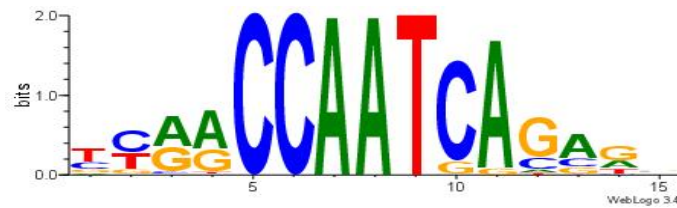
Dataset #:	2
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0

Alignment:

YYRCCAATCAGAGV
YYRCCAATCAGAGV

Original motif Consensus sequence: YYRCCAATCAGAGV



Reverse complement motif Consensus sequence: VCTCTGATTGGKK



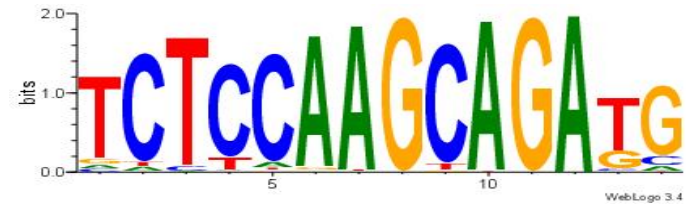
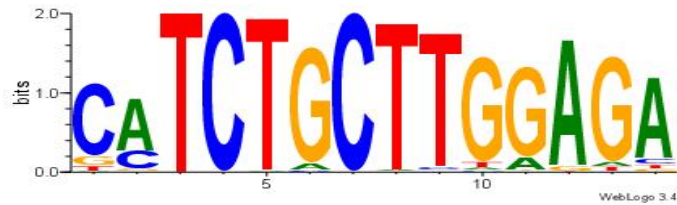
Dataset #: 2
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.595956

Alignment:

CATCTGCTTGGAGA-
VCTCTGATTGGKKKM

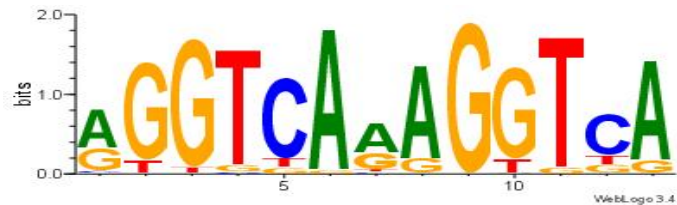
Original motif Consensus sequence: CATCTGCTTGGAGA

Reverse complement motif Consensus sequence: TCTCCAAGCAGAT

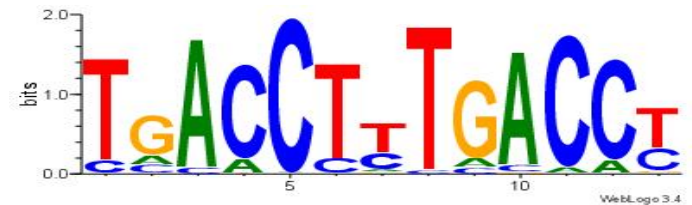


Dataset #: 1 Motif ID: 2 Motif name: Motif 2

Original motif Consensus sequence: RGGTCARAGGTCA



Reverse complement motif Consensus sequence: TGACCTKTGACCK

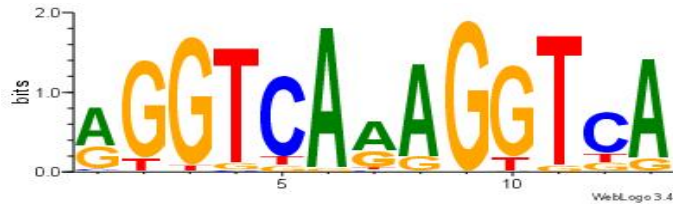


Best Matches for Motif ID 2 (Highest to Lowest)

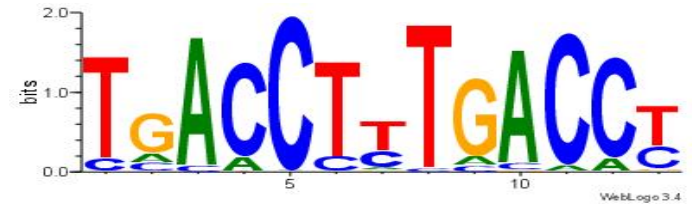
Dataset #:	2
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0

Alignment:
 RGGTCARAGGTCA
 RGGTCARAGGTCA

Original motif Consensus sequence: RGGTCARAGGTCA

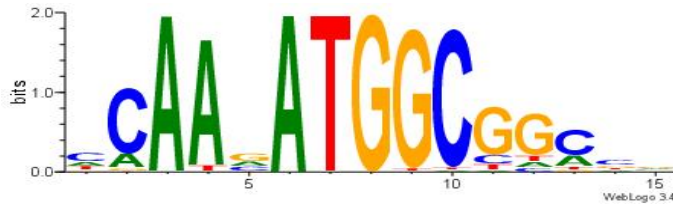


Reverse complement motif Consensus sequence: TGACCTKTGACCK

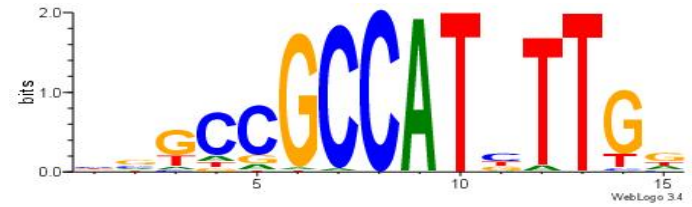


Dataset #: 1 Motif ID: 3 Motif name: Motif 3

Original motif Consensus sequence: HCAAVATGGCGGBV



Reverse complement motif Consensus sequence: VBGCCGCCATVTT



Best Matches for Motif ID 3 (Highest to Lowest)

Dataset #:	2
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0

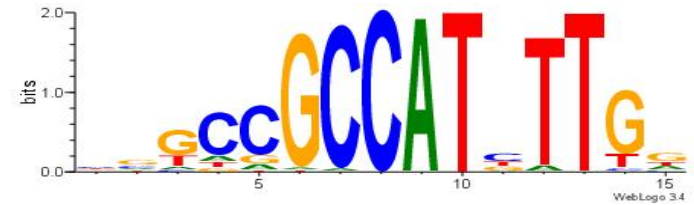
Alignment:

HCAAVATGGCGGCBV
HCAAVATGGCGGCBV

Original motif Consensus sequence: HCAAVATGGCGGCBV

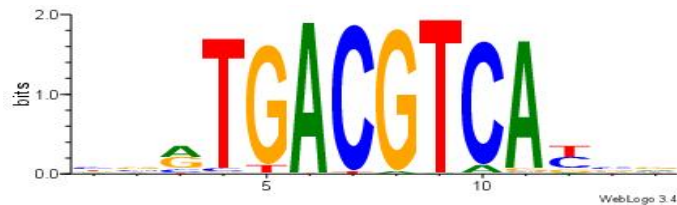


Reverse complement motif Consensus sequence: VBGCCGCCATVTT

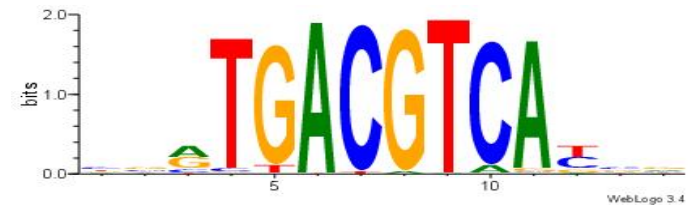


Dataset #: 1 Motif ID: 4 Motif name: Motif 4

Original motif Consensus sequence: BBRTGACGTCAVYV



Reverse complement motif Consensus sequence: VVMTGACGTCAKB



Best Matches for Motif ID 4 (Highest to Lowest)

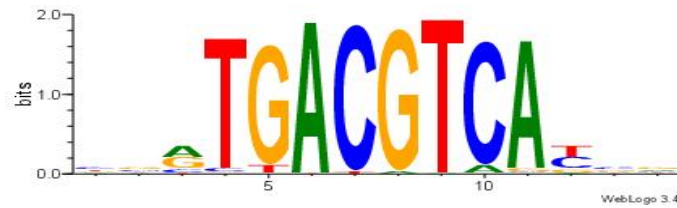
Dataset #:	2
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:

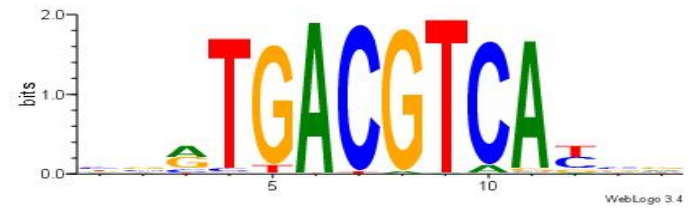
BBRTGACGTCA YV

BBRTGACGTCA YV

Original motif Consensus sequence: BBRTGACGTCA YV

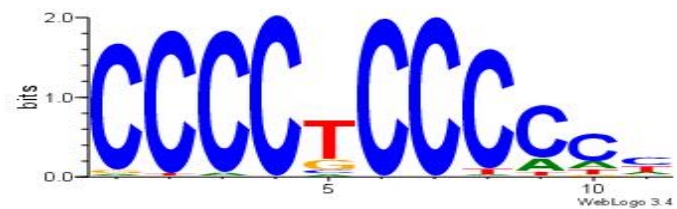


Reverse complement motif Consensus sequence: VVMTGACGTCA KB

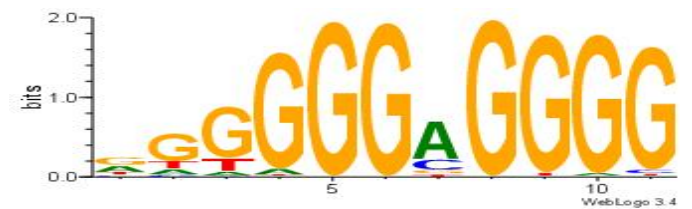


Dataset #: 1 Motif ID: 5 Motif name: Motif 5

Original motif Consensus sequence: CCCCTCCCC Y



Reverse complement motif Consensus sequence: KGGGGAGGGG



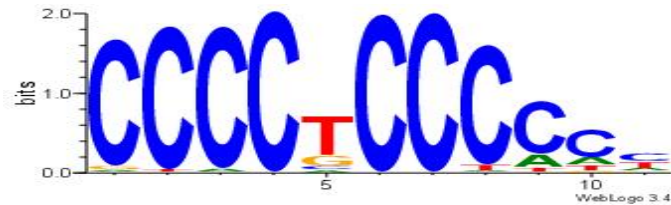
Best Matches for Motif ID 5 (Highest to Lowest)

Dataset #:	2
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 11
Similarity score: 0

Alignment:
CCCCTCCCCCY
CCCCTCCCCCY

Original motif Consensus sequence: CCCCTCCCCCY

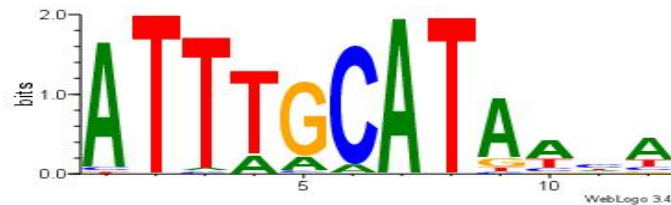


Reverse complement motif Consensus sequence: KGGGGGAGGGG

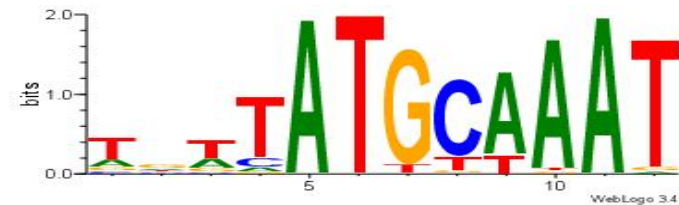


Dataset #: 1 Motif ID: 6 Motif name: Motif 6

Original motif Consensus sequence: ATTTGCATAWHA



Reverse complement motif Consensus sequence: TDWTATGCAAAT



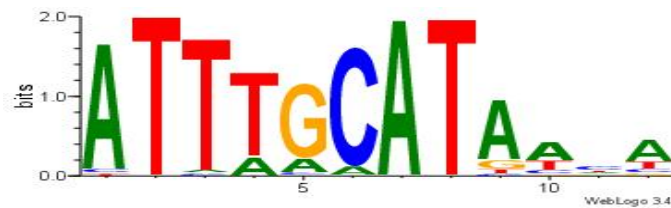
Best Matches for Motif ID 6 (Highest to Lowest)

Dataset #: 2
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

Direction: Forward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0

Alignment:
 ATTTGCATAWHA
 ATTTGCATAWHA

Original motif Consensus sequence: ATTTGCATAWHA



Reverse complement motif Consensus sequence: TDWTATGCAAAT



Dataset #: 1 Motif ID: 7 Motif name: Motif 7

Original motif Consensus sequence: GCATGMTGGGA



Reverse complement motif Consensus sequence: TCCCARCATGC



Best Matches for Motif ID 7 (Highest to Lowest)

Dataset #: 2
 Motif ID: 64
 Motif name: Motif 64

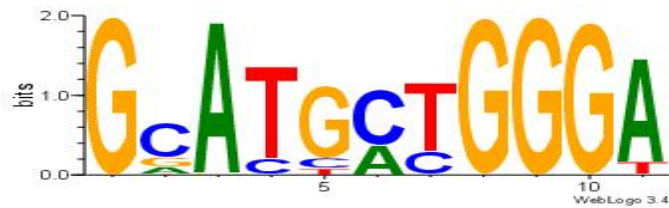
Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0

Alignment:

GCATGMTGGGA

GCATGMTGGGA

Original motif Consensus sequence: GCATGMTGGGA

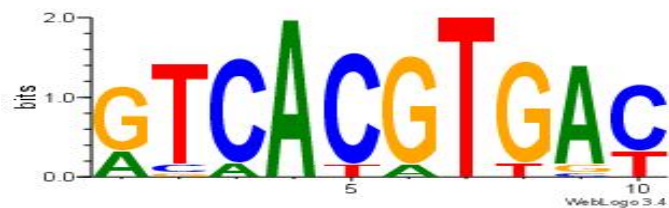


Reverse complement motif Consensus sequence: TCCCARCATGC

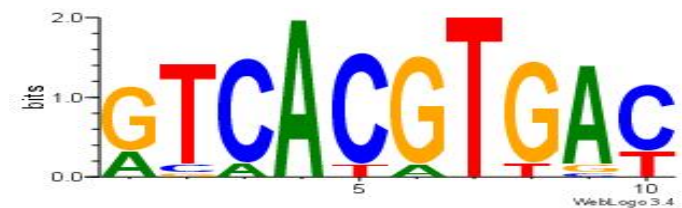


Dataset #: 1 Motif ID: 8 Motif name: Motif 8

Original motif Consensus sequence: GTCACGTGAC



Reverse complement motif Consensus sequence: GTCACGTGAC



Best Matches for Motif ID 8 (Highest to Lowest)

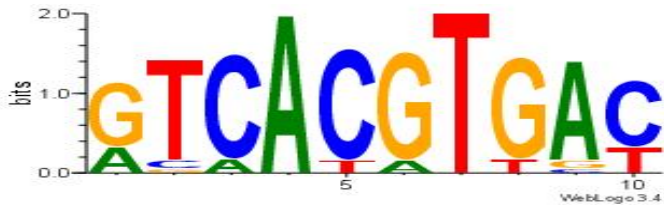
Dataset #: 2

Motif ID: 65
 Motif name: Motif 65
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

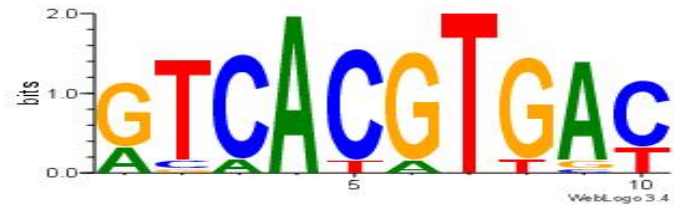
Alignment:

GTCACGTGAC
 GTCACGTGAC

Original motif Consensus sequence: GTCACGTGAC



Reverse complement motif Consensus sequence: GTCACGTGAC

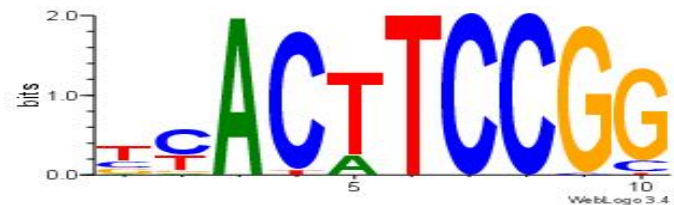


Dataset #: 1 Motif ID: 9 Motif name: Motif 9

Original motif Consensus sequence: CCGGAAGTRA



Reverse complement motif Consensus sequence: TMACTTCCGG



Best Matches for Motif ID 9 (Highest to Lowest)

Dataset #: 2
 Motif ID: 66
 Motif name: Motif 66
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

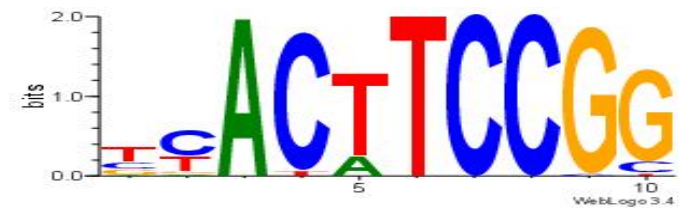
Alignment:

CCGGAAGTRA
 CCGGAAGTRA

Original motif Consensus sequence: CCGGAAGTRA



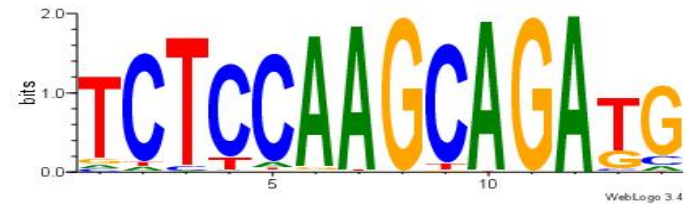
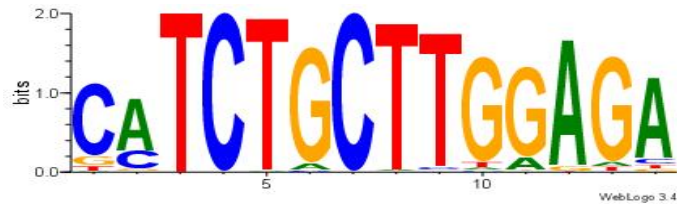
Reverse complement motif Consensus sequence: TMACTTCCGG



Dataset #: 1 Motif ID: 10 Motif name: Motif 10

Original motif Consensus sequence: CATCTGCTGGAGA

Reverse complement motif Consensus sequence: TCTCCAAGCAGAT

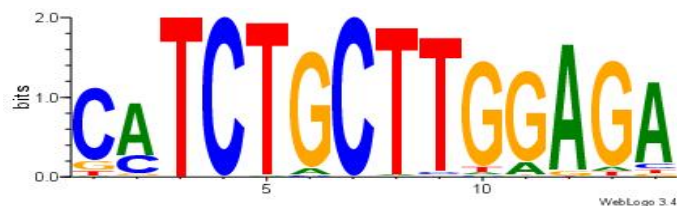


Best Matches for Motif ID 10 (Highest to Lowest)

Dataset #: 2
 Motif ID: 67
 Motif name: Motif 67
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0

Alignment:
 CATCTGCTTGGAGA
 CATCTGCTTGGAGA

Original motif Consensus sequence: CATCTGCTTGGAGA



Reverse complement motif Consensus sequence: TCTCCAAGCAGATG

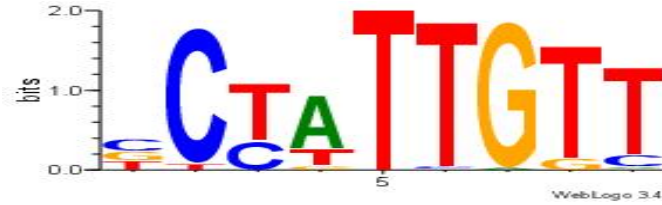


Dataset #: 1 Motif ID: 11 Motif name: Motif 11

Original motif Consensus sequence: AACATR GV



Reverse complement motif Consensus sequence: VCKATTGTT



Best Matches for Motif ID 11 (Highest to Lowest)

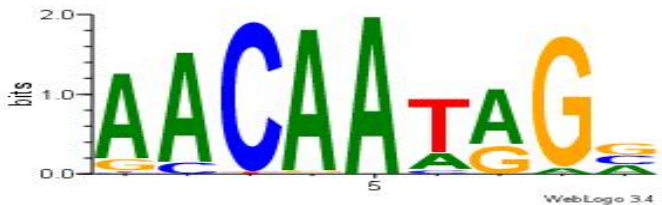
Dataset #:	2
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:

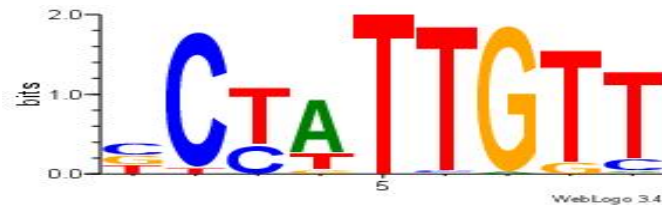
AACAATRGV

AACAATRGV

Original motif Consensus sequence: AACATR GV

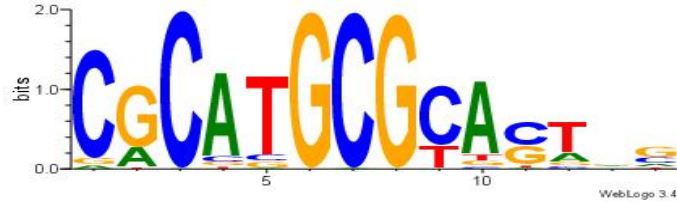


Reverse complement motif Consensus sequence: VCKATTGTT

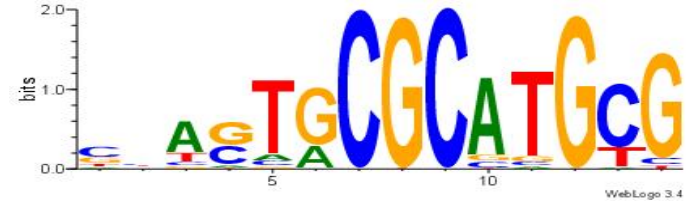


Dataset #: 1 Motif ID: 12 Motif name: Motif 12

Original motif Consensus sequence: CGCATGCGCASTVS



Reverse complement motif Consensus sequence: SVASTGCGCATGCG



Best Matches for Motif ID 12 (Highest to Lowest)

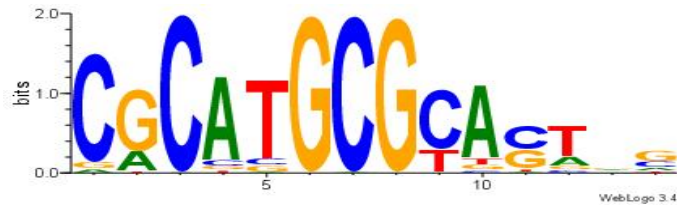
Dataset #:	2
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:

CGCATGCGCASTVS

CGCATGCGCASTVS

Original motif Consensus sequence: CGCATGCGCASTVS

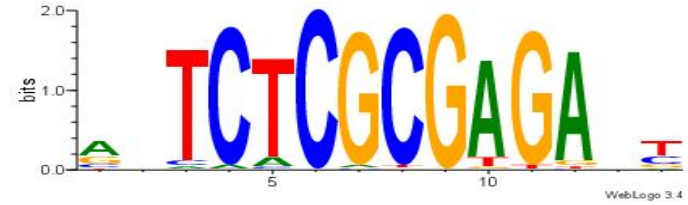


Reverse complement motif Consensus sequence: SVASTGCGCATGCG

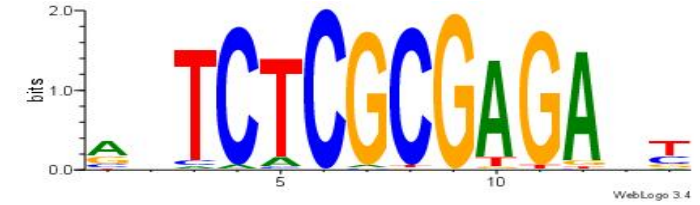


Dataset #: 1 Motif ID: 13 Motif name: Motif 13

Original motif Consensus sequence: RVTCTCGCGAGABY



Reverse complement motif Consensus sequence: MVTCTCGCGAGABY



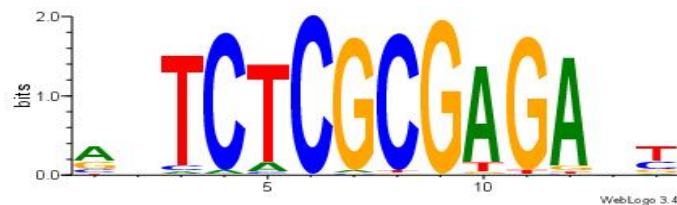
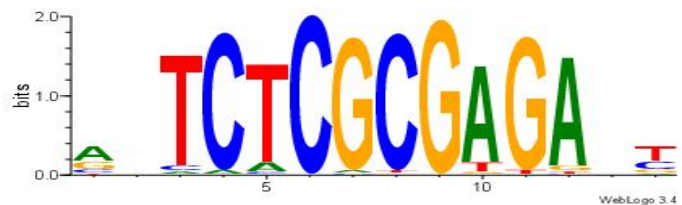
Best Matches for Motif ID 13 (Highest to Lowest)

Dataset #:	2
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:
RVTCTCGCGAGABY
RVTCTCGCGAGABY

Original motif Consensus sequence: RVTCTCGCGAGABY

Reverse complement motif Consensus sequence: MVTCTCGCGAGABY

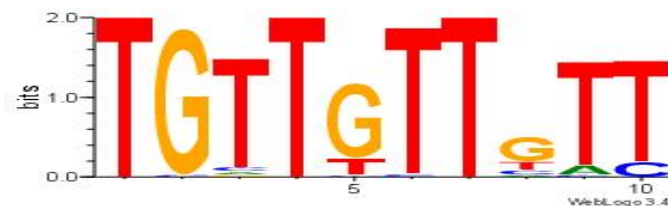


Dataset #: 1 Motif ID: 14 Motif name: Motif 14

Original motif Consensus sequence: AACACAACA



Reverse complement motif Consensus sequence: TGTTGTTGTT

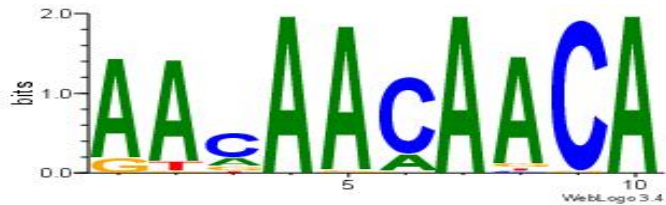


Best Matches for Motif ID 14 (Highest to Lowest)

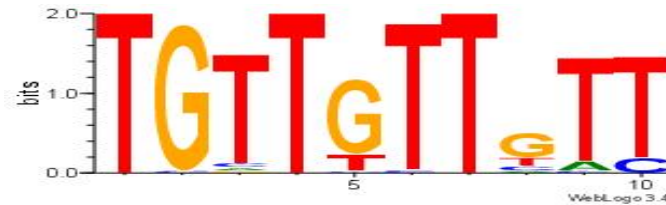
Dataset #:	2
Motif ID:	71
Motif name:	Motif 71
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:
AACACAACA
AACACAACA

Original motif Consensus sequence: AACAAACA

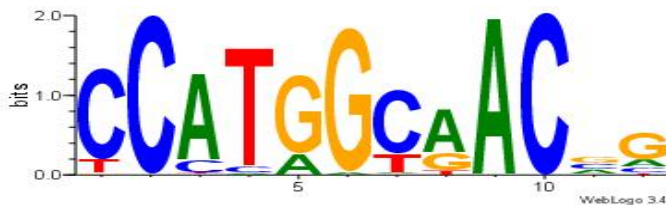


Reverse complement motif Consensus sequence: TGTTGTTGTT

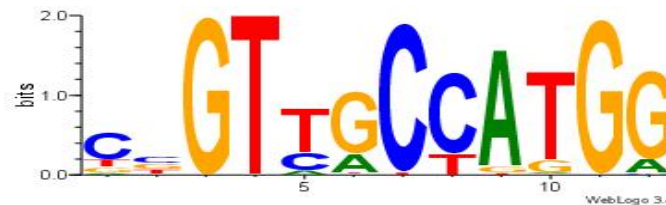


Dataset #: 1 Motif ID: 15 Motif name: Motif 15

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG



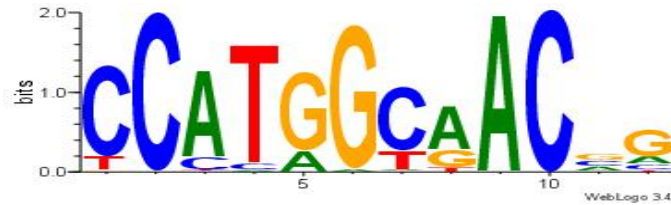
Best Matches for Motif ID 15 (Highest to Lowest)

Dataset #:	2
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0

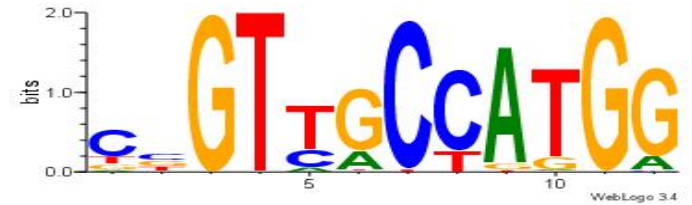
Alignment:

CCATGGCAACVG
CCATGGCAACVG

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG



Dataset #: 1 Motif ID: 16 Motif name: Motif 16

Original motif Consensus sequence: TCCCGCCVW



Reverse complement motif Consensus sequence: WBGGCGGGA



Best Matches for Motif ID 16 (Highest to Lowest)

Dataset #:	2
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:

TCCCGCCVW

TCCCGCCVW

Original motif Consensus sequence: TCCCGCCVW

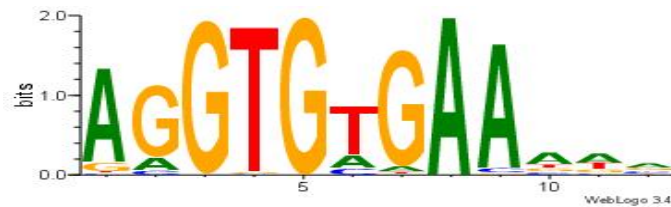


Reverse complement motif Consensus sequence: WBGCGGGA

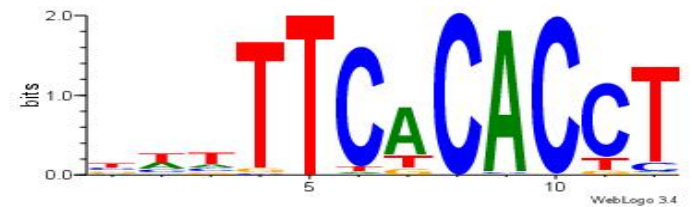


Dataset #: 1 Motif ID: 17 Motif name: Motif 17

Original motif Consensus sequence: AGGTGTGAAWV



Reverse complement motif Consensus sequence: BWTTTCACACCT



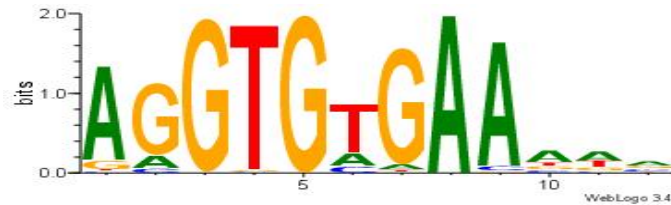
Best Matches for Motif ID 17 (Highest to Lowest)

Dataset #:	2
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

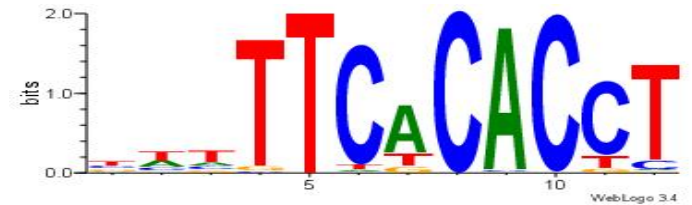
Number of overlap: 12
Similarity score: 0

Alignment:
AGGTGTGAAAWV
AGGTGTGAAAWV

Original motif Consensus sequence: AGGTGTGAAAWV



Reverse complement motif Consensus sequence: BWTTTCACACCT



Dataset #: 1 Motif ID: 18 Motif name: Motif 18

Original motif Consensus sequence: GMTAATTA



Reverse complement motif Consensus sequence: TAATTAYC



Best Matches for Motif ID 18 (Highest to Lowest)

Dataset #: 2
Motif ID: 75
Motif name: Motif 75
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0

Alignment:
 GMTAATTA
 GMTAATTA

Original motif Consensus sequence: GMTAATTA

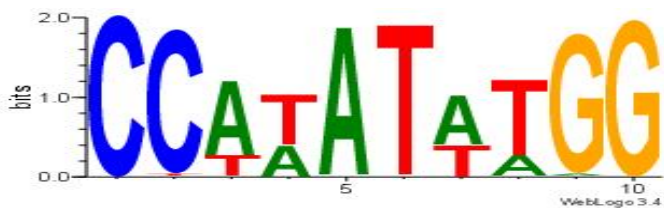


Reverse complement motif Consensus sequence: TAATTAYC

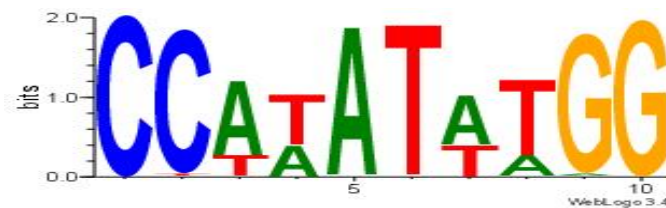


Dataset #: 1 Motif ID: 19 Motif name: Motif 19

Original motif Consensus sequence: CCAWATWTGG



Reverse complement motif Consensus sequence: CCAWATWTGG



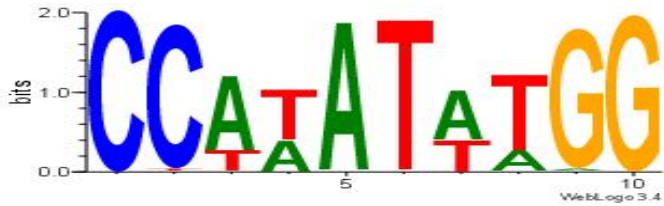
Best Matches for Motif ID 19 (Highest to Lowest)

Dataset #: 2
 Motif ID: 76
 Motif name: Motif 76

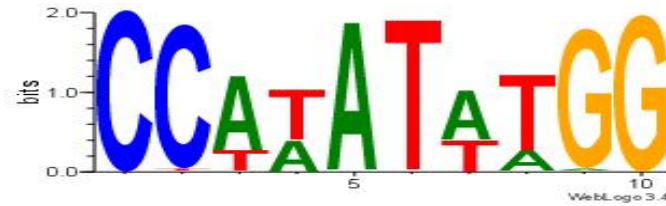
Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

Alignment:
 CCAWATWTGG
 CCAWATWTGG

Original motif Consensus sequence: CCAWATWTGG

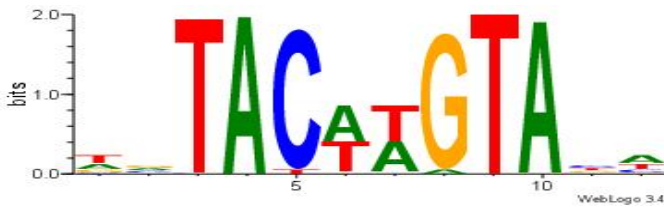


Reverse complement motif Consensus sequence: CCAWATWTGG

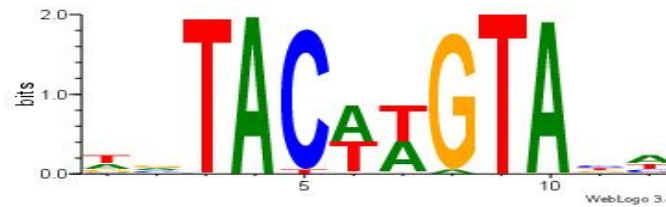


Dataset #: 1 Motif ID: 20 Motif name: Motif 20

Original motif Consensus sequence: DVTACWWGTABH



Reverse complement motif Consensus sequence: HBTACWWGTAVD



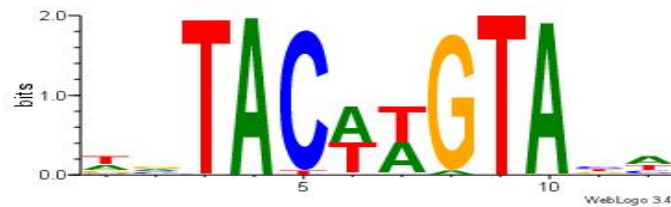
Best Matches for Motif ID 20 (Highest to Lowest)

Dataset #: 2

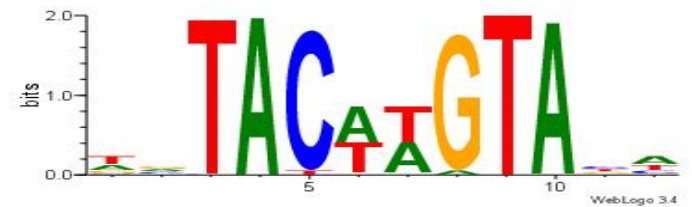
Motif ID: 77
 Motif name: Motif 77
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0

Alignment:
 DVTACWWGTABH
 DVTACWWGTABH

Original motif Consensus sequence: DVTACWWGTABH

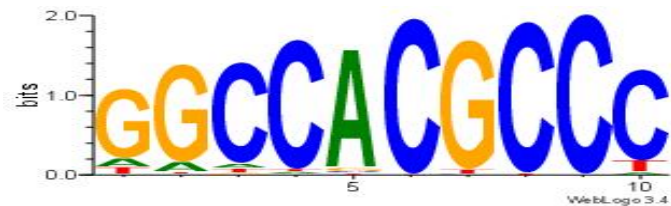


Reverse complement motif Consensus sequence: HBTACWWGTAVD

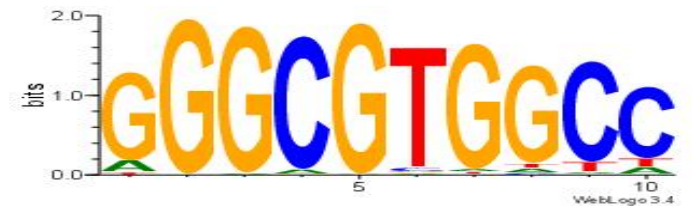


Dataset #: 1 Motif ID: 21 Motif name: Motif 21

Original motif Consensus sequence: GGCCACGCC



Reverse complement motif Consensus sequence: GGGCGTGGCC



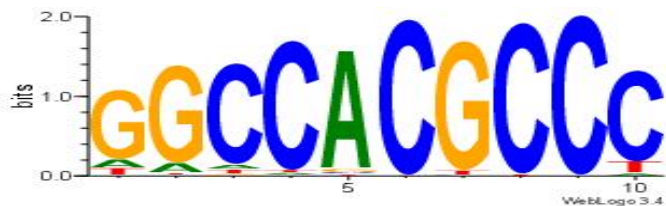
Best Matches for Motif ID 21 (Highest to Lowest)

Dataset #: 2
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0

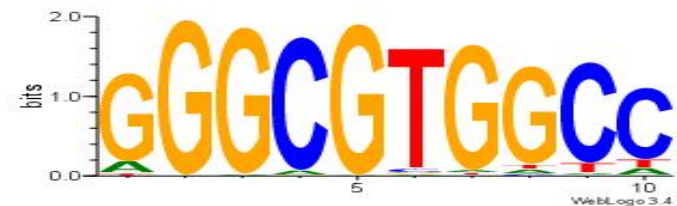
Alignment:

GGCCACGCC
GGCCACGCC

Original motif Consensus sequence: GGCCACGCC



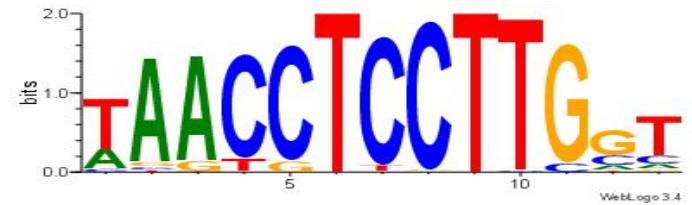
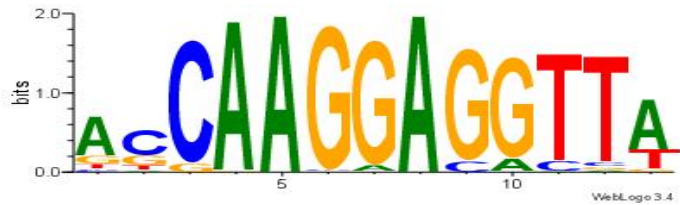
Reverse complement motif Consensus sequence: GGGCGTGGCC



Dataset #: 1 Motif ID: 22 Motif name: Motif 22

Original motif Consensus sequence: ACCAAGGAGGTTA

Reverse complement motif Consensus sequence: TAACCTCCTTGGT



Best Matches for Motif ID 22 (Highest to Lowest)

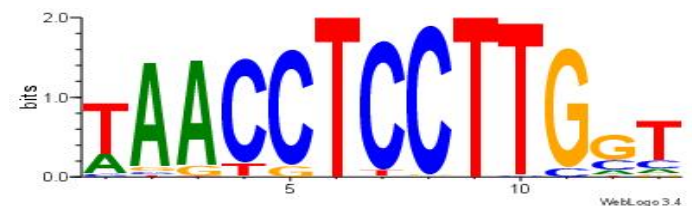
Dataset #: 2
 Motif ID: 79
 Motif name: Motif 79
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

Alignment:
 ACCAAGGAGGTTA
 ACCAAGGAGGTTA

Original motif Consensus sequence: ACCAAGGAGGTTA

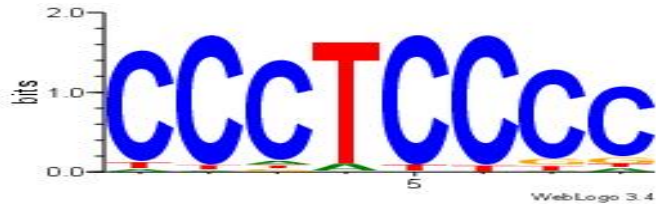


Reverse complement motif Consensus sequence: TAACCTCCTTGGT



Dataset #: 1 Motif ID: 23 Motif name: Motif 23

Original motif Consensus sequence: CCCTCCCC



Reverse complement motif Consensus sequence: GGGGAGGG

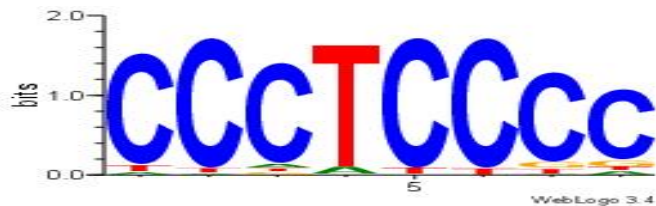


Best Matches for Motif ID 23 (Highest to Lowest)

Dataset #:	2
Motif ID:	80
Motif name:	Motif 80
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:
CCCTCCCC
CCCTCCCC

Original motif Consensus sequence: CCCTCCCC

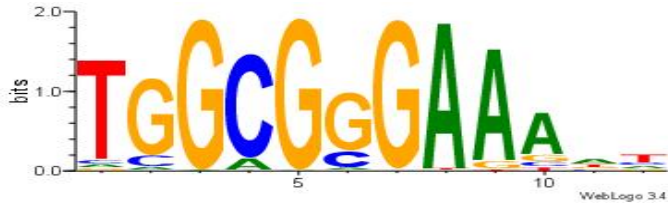


Reverse complement motif Consensus sequence: GGGGAGGG

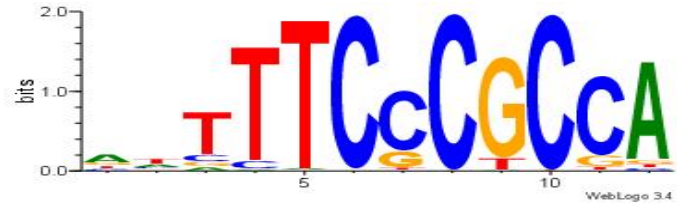


Dataset #: 1 Motif ID: 24 Motif name: Motif 24

Original motif Consensus sequence: TGGCGGGAAADH



Reverse complement motif Consensus sequence: HDTTTCCCGCCA



Best Matches for Motif ID 24 (Highest to Lowest)

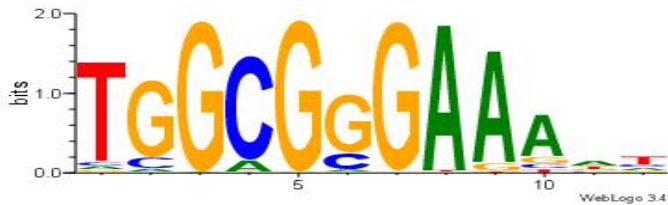
Dataset #:	2
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0

Alignment:

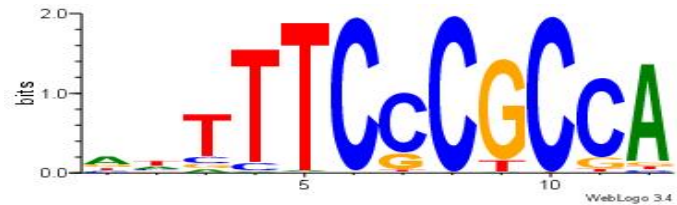
TGGCGGGAAADH

TGGCGGGAAADH

Original motif Consensus sequence: TGGCGGGAAADH

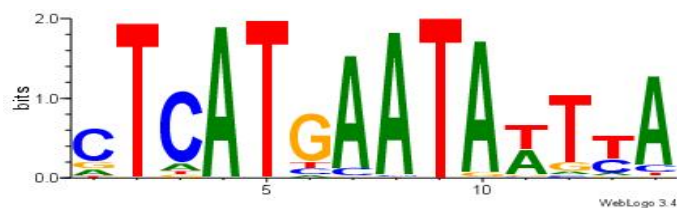


Reverse complement motif Consensus sequence: HDTTTCCCGCCA

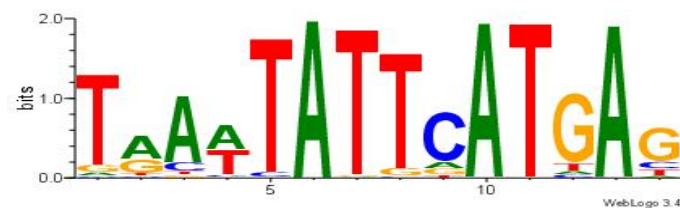


Dataset #: 1 Motif ID: 25 Motif name: Motif 25

Original motif Consensus sequence: CTCATGAATAWTYA



Reverse complement motif Consensus sequence: TMAWTATTCATGA



Best Matches for Motif ID 25 (Highest to Lowest)

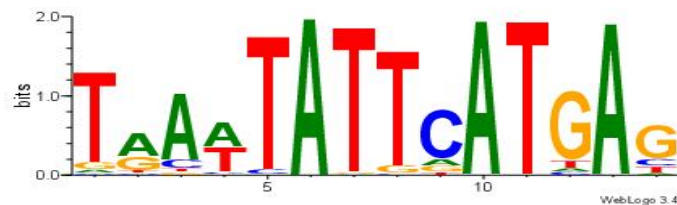
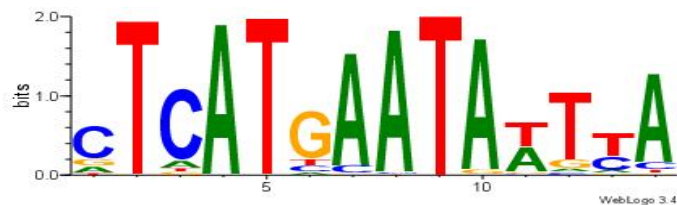
Dataset #:	2
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:

```
CTCATGAATAWTYA  
CTCATGAATAWTYA
```

Original motif Consensus sequence: CTCATGAATAWTYA

Reverse complement motif Consensus sequence: TMAWTATTCATGA



Dataset #: 1 Motif ID: 26 Motif name: Motif 26

Original motif Consensus sequence: CTGTCAATCAC



Reverse complement motif Consensus sequence: GTGATTGACAG

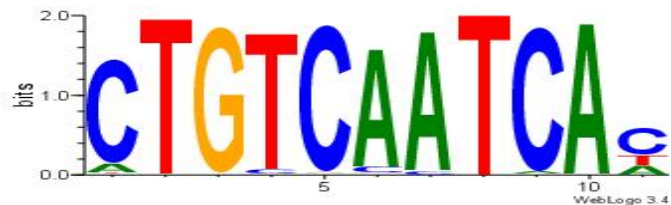


Best Matches for Motif ID 26 (Highest to Lowest)

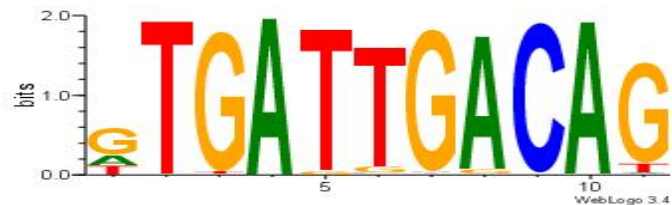
Dataset #:	2
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:
 CTGTCAATCAC
 CTGTCAATCAC

Original motif Consensus sequence: CTGTCAATCAC



Reverse complement motif Consensus sequence: GTGATTGACAG



Dataset #: 1 Motif ID: 27 Motif name: Motif 27

Original motif Consensus sequence: CAGGTAAG



Reverse complement motif Consensus sequence: CTTACCTG



Best Matches for Motif ID 27 (Highest to Lowest)

Dataset #:	2
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:

CAGGTAAG
CAGGTAAG

Original motif Consensus sequence: CAGGTAAG



Reverse complement motif Consensus sequence: CTTACCTG



Dataset #: 1 Motif ID: 28 Motif name: Motif 28

Original motif Consensus sequence: AGCGCCVCTR



Reverse complement motif Consensus sequence: KAGVGGCGCT



Best Matches for Motif ID 28 (Highest to Lowest)

Dataset #:	2
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:

AGCGCCVCCTR

AGCGCCVCCTR

Original motif Consensus sequence: AGCGCCVCCTR

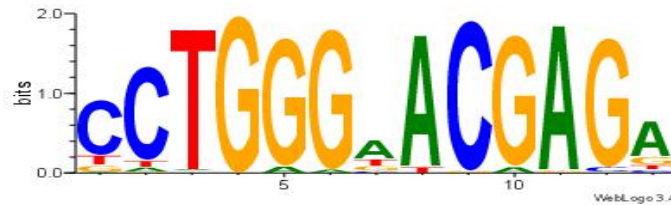


Reverse complement motif Consensus sequence: KAGGVGGCGCT

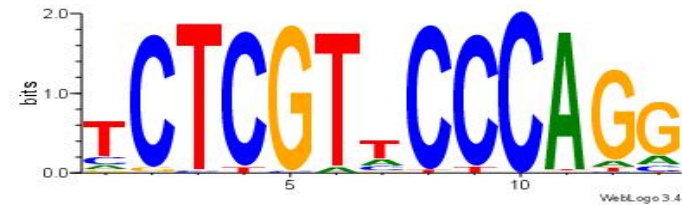


Dataset #: 1 Motif ID: 29 Motif name: Motif 29

Original motif Consensus sequence: CCTGGGAACGAGA



Reverse complement motif Consensus sequence: TCTCGTCCCAAGG



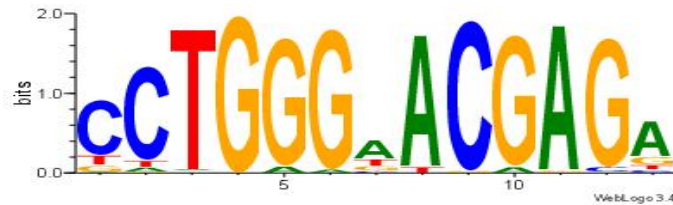
Best Matches for Motif ID 29 (Highest to Lowest)

Dataset #:	2
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

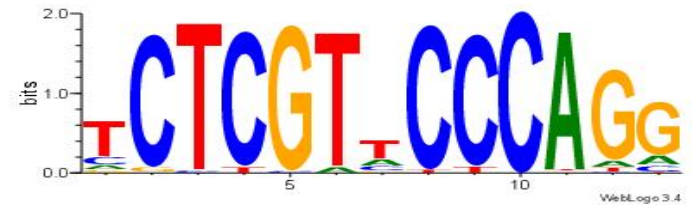
Number of overlap: 13
 Similarity score: 0

Alignment:
 CCTGGGAACGAGA
 CCTGGGAACGAGA

Original motif Consensus sequence: CCTGGGAACGAGA



Reverse complement motif Consensus sequence: TCTCGTTCCAGG

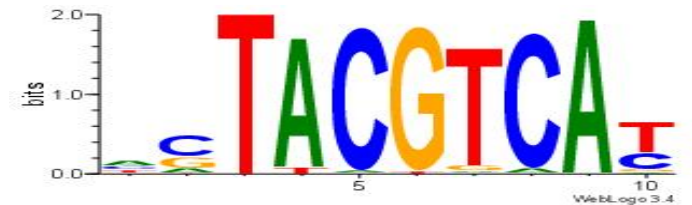


Dataset #: 1 Motif ID: 30 Motif name: Motif 30

Original motif Consensus sequence: RTGACGTASD



Reverse complement motif Consensus sequence: DSTACGTCAK



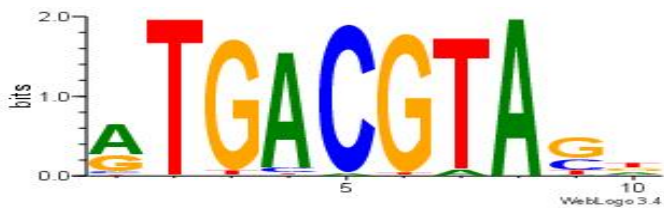
Best Matches for Motif ID 30 (Highest to Lowest)

Dataset #: 2
 Motif ID: 87
 Motif name: Motif 87
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif

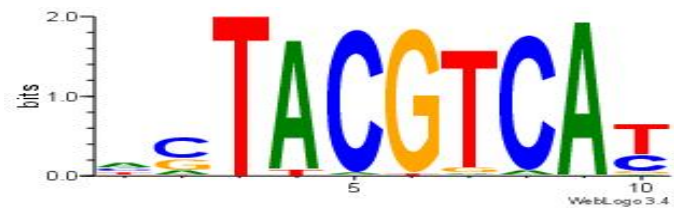
Direction: Backward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

Alignment:
 RTGACGTASD
 RTGACGTASD

Original motif Consensus sequence: RTGACGTASD

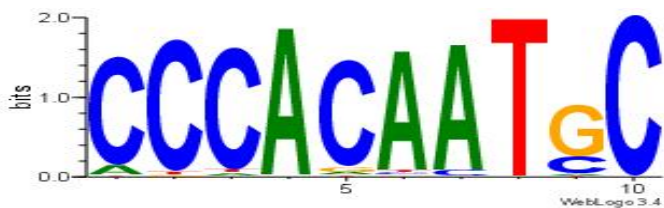


Reverse complement motif Consensus sequence: DSTACGTCAG

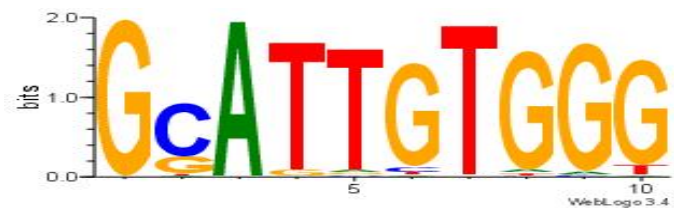


Dataset #: 1 Motif ID: 31 Motif name: Motif 31

Original motif Consensus sequence: CCCACAATGC



Reverse complement motif Consensus sequence: GCATTGTGGG



Best Matches for Motif ID 31 (Highest to Lowest)

Dataset #: 2
 Motif ID: 88
 Motif name: Motif 88

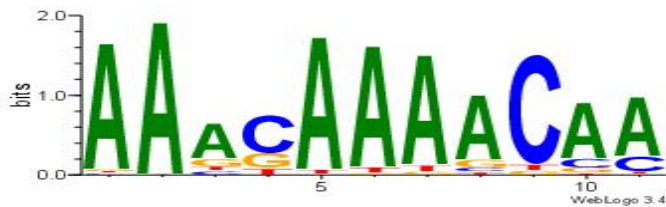
Motif ID: 89
 Motif name: Motif 89
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0

Alignment:

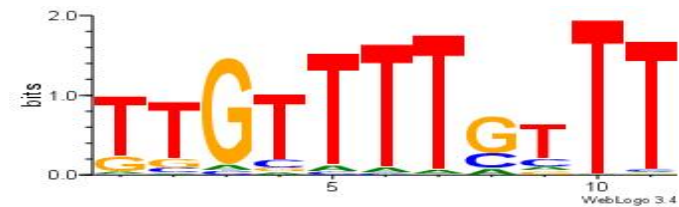
AAACAAAACAA

AAACAAAACAA

Original motif Consensus sequence: AAACAAAACAA



Reverse complement motif Consensus sequence: TTGTTTGTTT

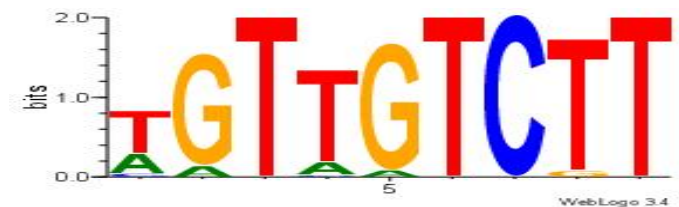


Dataset #: 1 Motif ID: 33 Motif name: Motif 33

Original motif Consensus sequence: AAGACAACA



Reverse complement motif Consensus sequence: TGTTGTCTT



Best Matches for Motif ID 33 (Highest to Lowest)

Dataset #: 2
Motif ID: 90
Motif name: Motif 90
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 9
Similarity score: 0

Alignment:

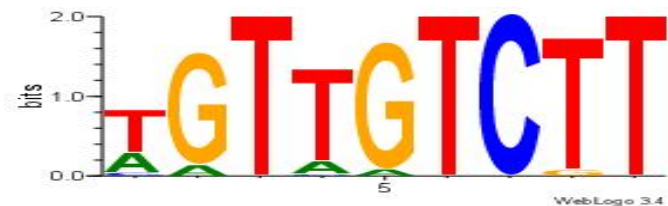
AAGACAACA

AAGACAACA

Original motif Consensus sequence: AAGACAACA



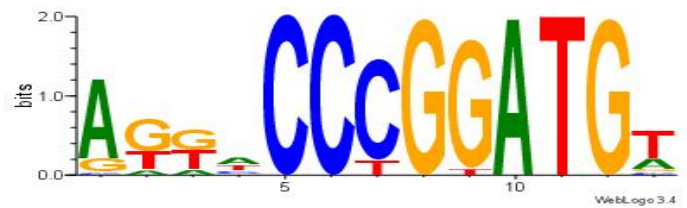
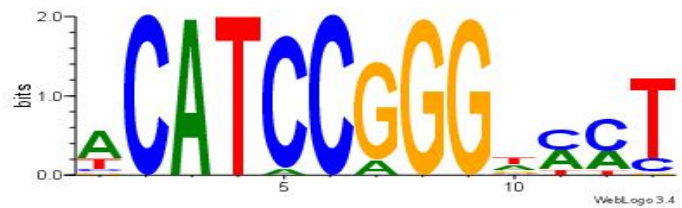
Reverse complement motif Consensus sequence: TGTTGTCTT



Dataset #: 1 Motif ID: 34 Motif name: Motif 34

Original motif Consensus sequence: ACATCCGGGDMMT

Reverse complement motif Consensus sequence: ARRDCCGGATGT

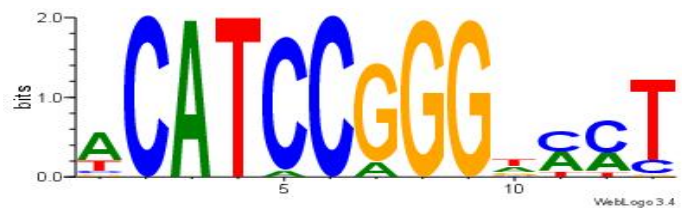


Best Matches for Motif ID 34 (Highest to Lowest)

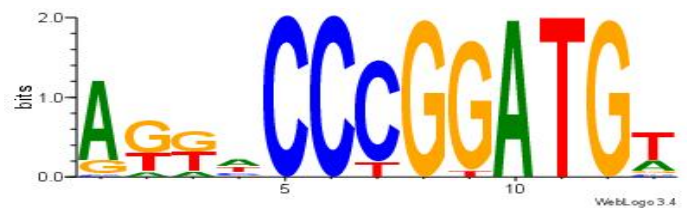
Dataset #: 2
 Motif ID: 91
 Motif name: Motif 91
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

Alignment:
 ACATCCGGGDMMT
 ACATCCGGGDMMT

Original motif Consensus sequence: ACATCCGGGDMMT



Reverse complement motif Consensus sequence: ARRDCcGGATGT



Dataset #: 1 Motif ID: 35 Motif name: Motif 35

Original motif Consensus sequence: AAAAYAAACAA



Reverse complement motif Consensus sequence: TTGTTTKTTTT



Best Matches for Motif ID 35 (Highest to Lowest)

Dataset #:	2
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:

AAAAYAAACAA
AAAAYAAACAA

Original motif Consensus sequence: AAAAYAAACAA

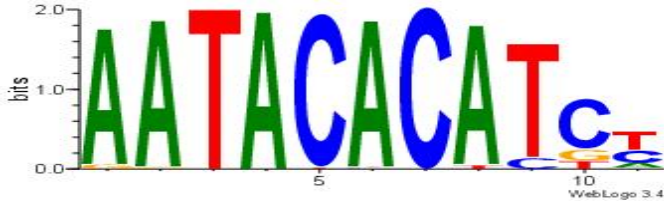


Reverse complement motif Consensus sequence: TTGTTTKTTTT

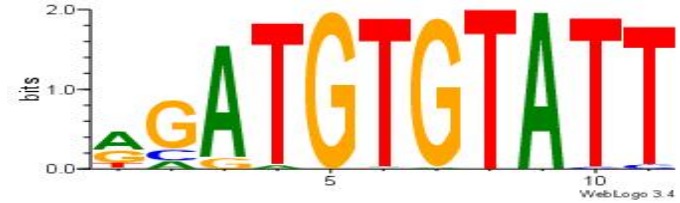


Dataset #: 1 Motif ID: 36 Motif name: Motif 36

Original motif Consensus sequence: AATACACATCY



Reverse complement motif Consensus sequence: MGATGTGTATT

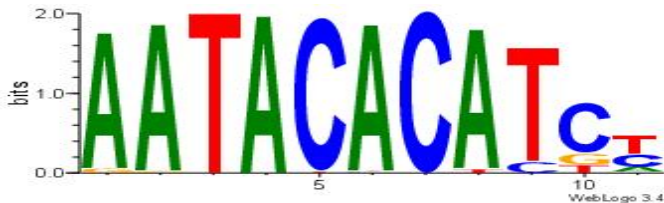


Best Matches for Motif ID 36 (Highest to Lowest)

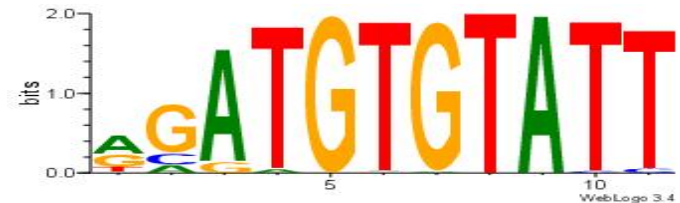
Dataset #:	2
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:
AATACACATCY
AATACACATCY

Original motif Consensus sequence: AATACACATCY



Reverse complement motif Consensus sequence: MGATGTGTATT

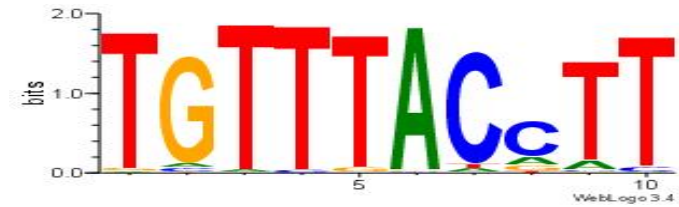


Dataset #: 1 Motif ID: 37 Motif name: Motif 37

Original motif Consensus sequence: AAGGTAAACA



Reverse complement motif Consensus sequence: TGTTTACCTT



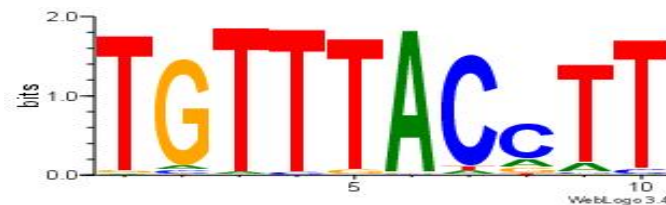
Best Matches for Motif ID 37 (Highest to Lowest)

Dataset #:	2
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:
AAGGTAAACA
AAGGTAAACA

Original motif Consensus sequence: AAGGTAAACA

Reverse complement motif Consensus sequence: TGTTTACCTT



Dataset #: 1 Motif ID: 38 Motif name: Motif 38

Original motif Consensus sequence: CGCCGCCA



Reverse complement motif Consensus sequence: TGGCGGCG



Best Matches for Motif ID 38 (Highest to Lowest)

Dataset #:	2
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:
 CGCCGCCA
 CGCCGCCA

Original motif Consensus sequence: CGCCGCCA



Reverse complement motif Consensus sequence: TGGCGGCG

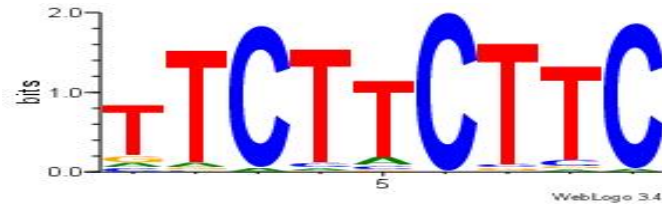


Dataset #: 1 Motif ID: 39 Motif name: Motif 39

Original motif Consensus sequence: GAAGAAGAA



Reverse complement motif Consensus sequence: TTCTTCTTC



Best Matches for Motif ID 39 (Highest to Lowest)

Dataset #:	2
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0

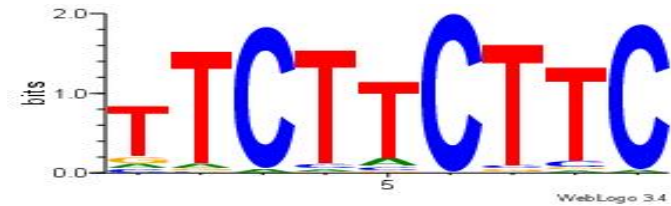
Alignment:

GAAGAAGAA
GAAGAAGAA

Original motif Consensus sequence: GAAGAAGAA

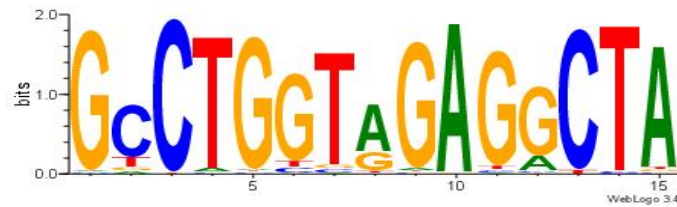


Reverse complement motif Consensus sequence: TTCTTCTTC

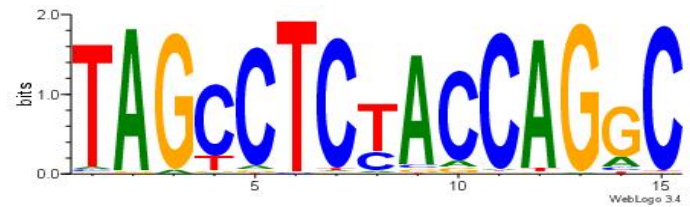


Dataset #: 1 Motif ID: 40 Motif name: Motif 40

Original motif Consensus sequence: GCCTGGTAGAGGCTA



Reverse complement motif Consensus sequence: TAGCCTCTACCAG



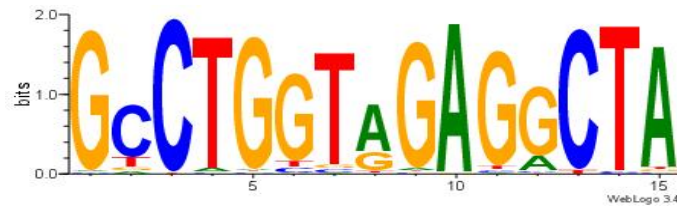
Best Matches for Motif ID 40 (Highest to Lowest)

Dataset #:	2
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0

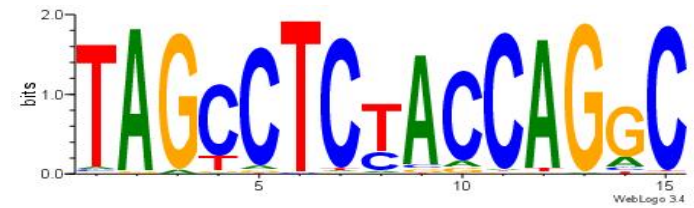
Alignment:

GCCTGGTAGAGGCTA
GCCTGGTAGAGGCTA

Original motif Consensus sequence: GCCTGGTAGAGGCTA

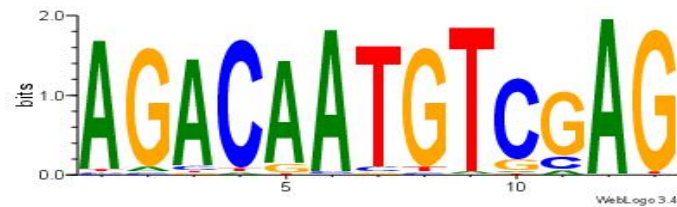


Reverse complement motif Consensus sequence: TAGCCTCTACCAGG

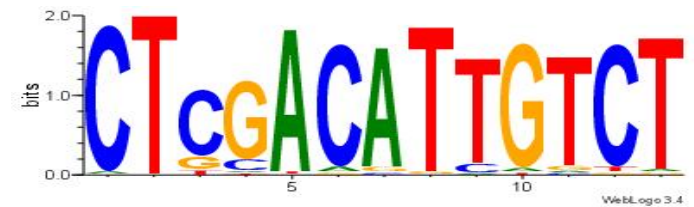


Dataset #: 1 Motif ID: 41 Motif name: Motif 41

Original motif Consensus sequence: AGACAATGTCGAG



Reverse complement motif Consensus sequence: CTCGACATTGTCT



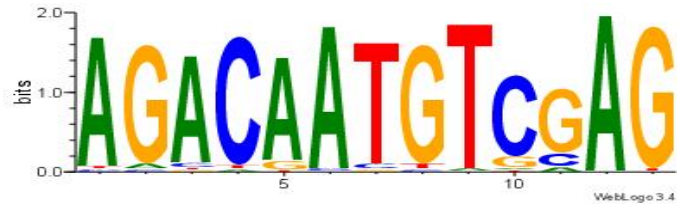
Best Matches for Motif ID 41 (Highest to Lowest)

Dataset #:	2
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

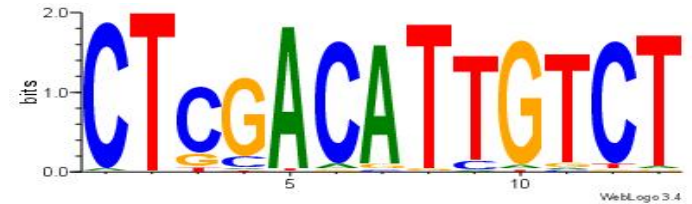
Number of overlap: 13
Similarity score: 0

Alignment:
AGACAATGTCGAG
AGACAATGTCGAG

Original motif Consensus sequence: AGACAATGTCGAG

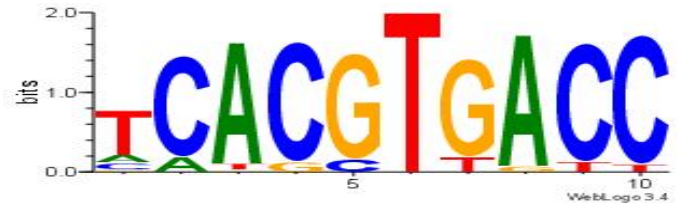


Reverse complement motif Consensus sequence: CTCGACATTGTCT

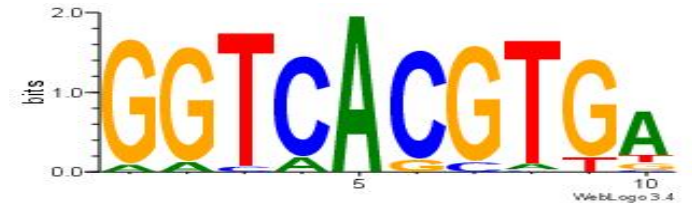


Dataset #: 1 Motif ID: 42 Motif name: Motif 42

Original motif Consensus sequence: TCACGTGACC



Reverse complement motif Consensus sequence: GGTCACGTGA



Best Matches for Motif ID 42 (Highest to Lowest)

Dataset #: 2
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

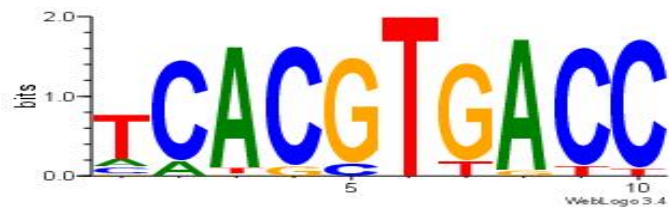
Direction: Backward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

Alignment:

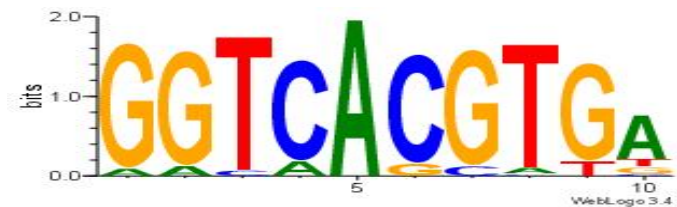
TCACGTGACC

TCACGTGACC

Original motif Consensus sequence: TCACGTGACC

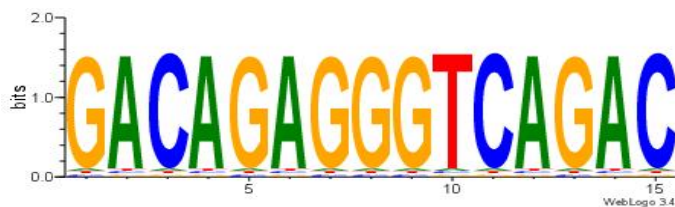


Reverse complement motif Consensus sequence: GGTCACGTGA

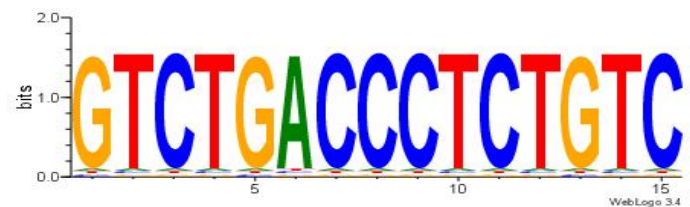


Dataset #: 1 Motif ID: 43 Motif name: Motif 43

Original motif Consensus sequence: GACAGAGGGTCAGAC



Reverse complement motif Consensus sequence: GTCTGACCCTCTGTC



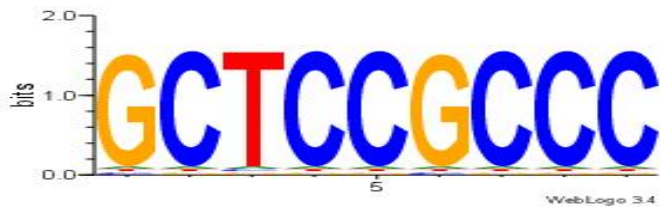
Best Matches for Motif ID 43 (Highest to Lowest)

Dataset #: 2
 Motif ID: 100
 Motif name: Motif 100

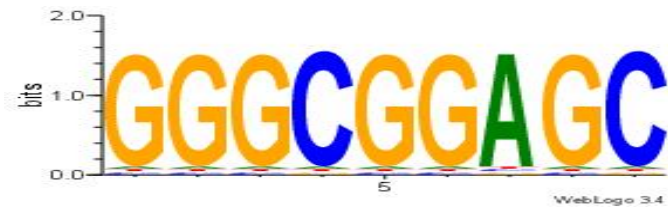
Motif ID: 101
 Motif name: Motif 101
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 9
 Similarity score: 0

Alignment:
 GCTCCGCCC
 GCTCCGCCC

Original motif Consensus sequence: GCTCCGCCC

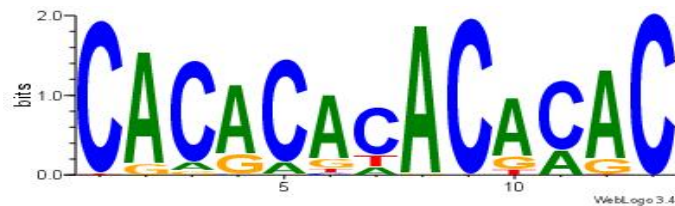


Reverse complement motif Consensus sequence: GGGCGGAGC

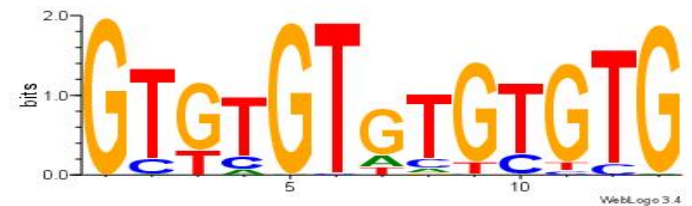


Dataset #: 1 Motif ID: 45 Motif name: Motif 45

Original motif Consensus sequence: CACACACACAC



Reverse complement motif Consensus sequence: GTGTGTGTGTG



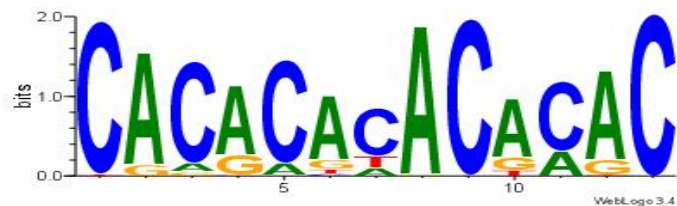
Best Matches for Motif ID 45 (Highest to Lowest)

Dataset #: 2
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0

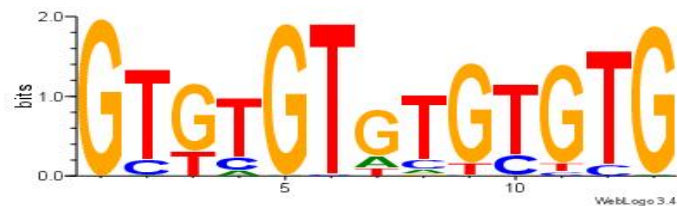
Alignment:

CACACACACACAC
CACACACACACAC

Original motif Consensus sequence: CACACACACACAC



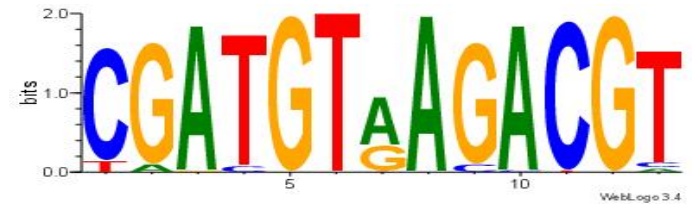
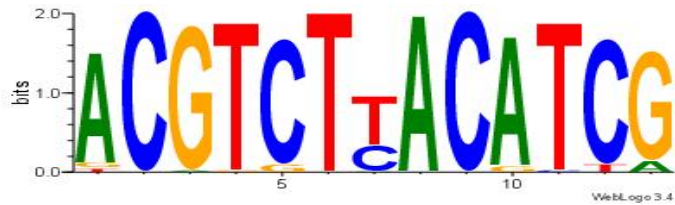
Reverse complement motif Consensus sequence: GTGTGTGTGTGTG



Dataset #: 1 Motif ID: 46 Motif name: Motif 46

Original motif Consensus sequence: ACGTCTYACATCG

Reverse complement motif Consensus sequence: CGATGTMAGACGT

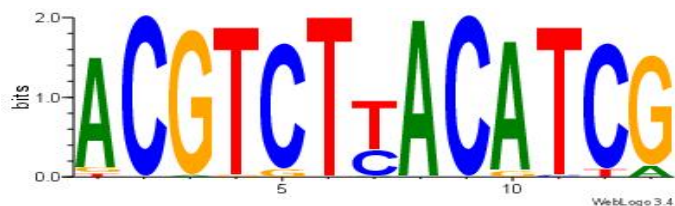


Best Matches for Motif ID 46 (Highest to Lowest)

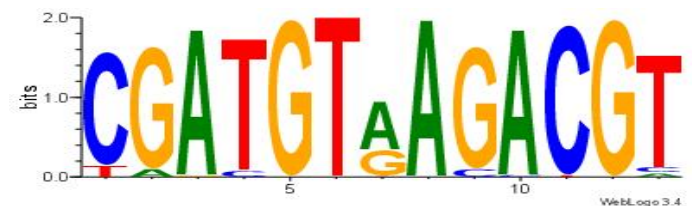
Dataset #: 2
 Motif ID: 103
 Motif name: Motif 103
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

Alignment:
 ACGTCTYACATCG
 ACGTCTYACATCG

Original motif Consensus sequence: ACGTCTYACATCG

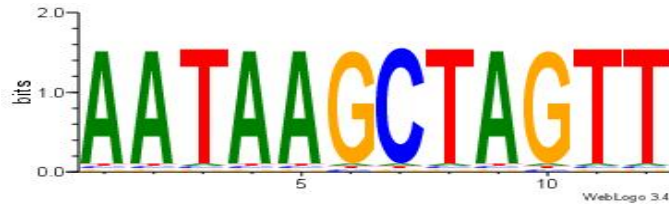


Reverse complement motif Consensus sequence: CGATGTMAGACGT

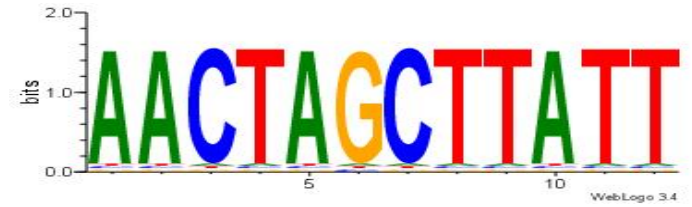


Dataset #: 1 Motif ID: 47 Motif name: Motif 47

Original motif Consensus sequence: AATAAGCTAGTT



Reverse complement motif Consensus sequence: AACTAGCTTATT



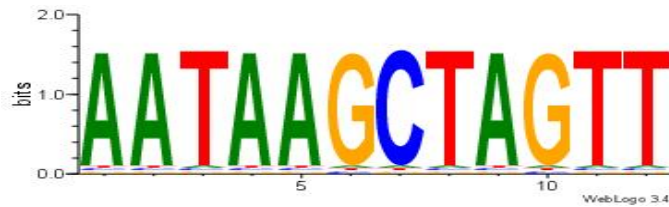
Best Matches for Motif ID 47 (Highest to Lowest)

Dataset #:	2
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0

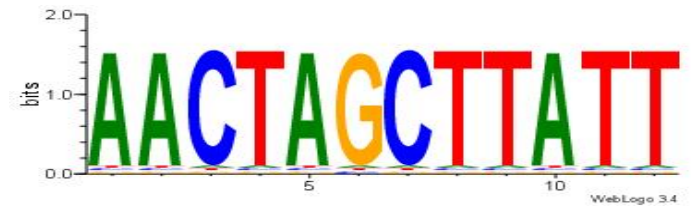
Alignment:

```
AATAAGCTAGTT  
AATAAGCTAGTT
```

Original motif Consensus sequence: AATAAGCTAGTT



Reverse complement motif Consensus sequence: AACTAGCTTATT



Dataset #: 1 Motif ID: 48 Motif name: Motif 48

Original motif Consensus sequence: CAGACRAC



Reverse complement motif Consensus sequence: GTKGTCTG



Best Matches for Motif ID 48 (Highest to Lowest)

Dataset #:	2
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:
CAGACRAC
CAGACRAC

Original motif Consensus sequence: CAGACRAC

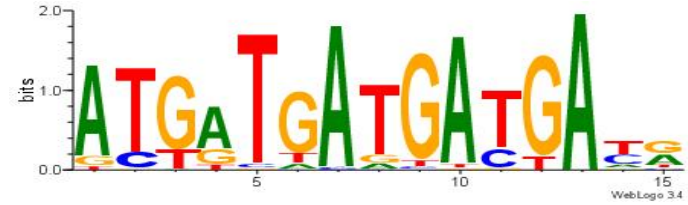


Reverse complement motif Consensus sequence: GTKGTCTG

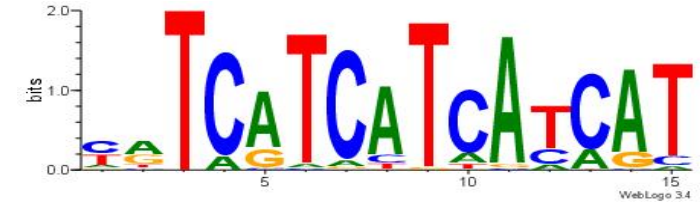


Dataset #: 1 Motif ID: 49 Motif name: Motif 49

Original motif Consensus sequence: ATGATGATGATGAYR



Reverse complement motif Consensus sequence: MMTCATCATCATC



Best Matches for Motif ID 49 (Highest to Lowest)

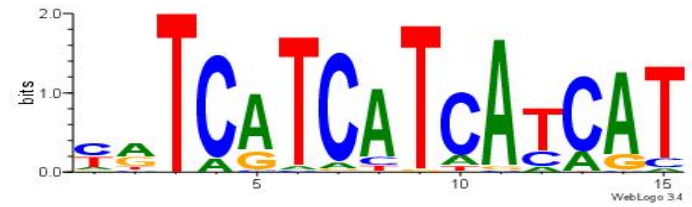
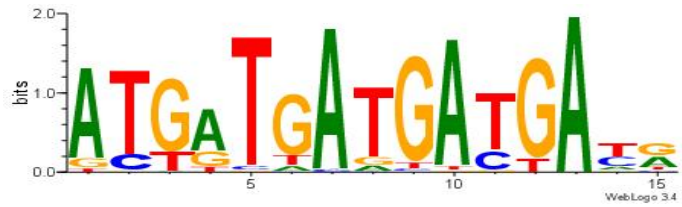
Dataset #:	2
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0

Alignment:

```
ATGATGATGATGAYR
ATGATGATGATGAYR
```

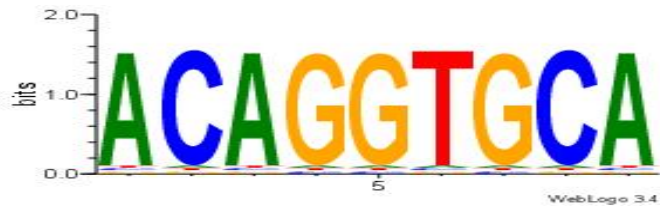
Original motif Consensus sequence: ATGATGATGATGAYR

Reverse complement motif Consensus sequence: MMTCATCATCATC

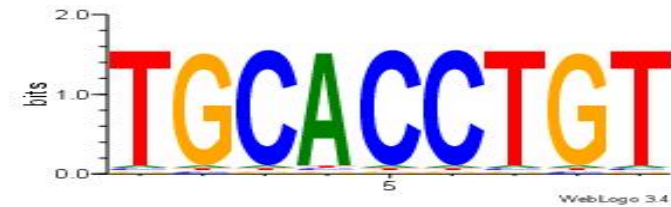


Dataset #: 1 Motif ID: 50 Motif name: Motif 50

Original motif Consensus sequence: ACAGGTGCA



Reverse complement motif Consensus sequence: TGCACCTGT

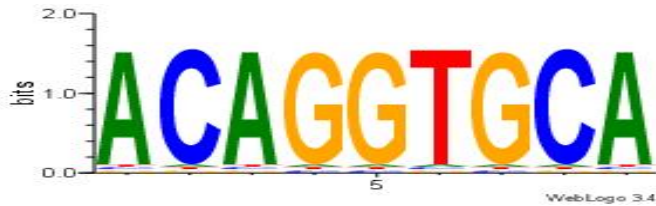


Best Matches for Motif ID 50 (Highest to Lowest)

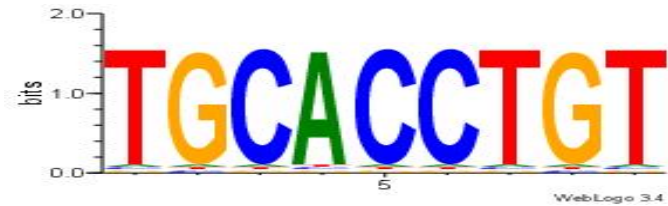
Dataset #:	2
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:
ACAGGTGCA
ACAGGTGCA

Original motif Consensus sequence: ACAGGTGCA

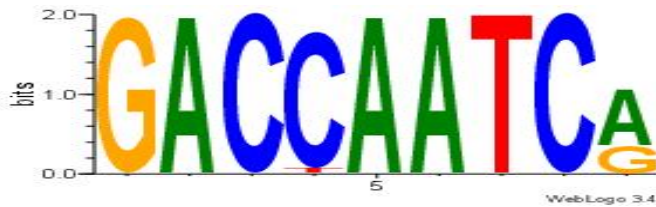


Reverse complement motif Consensus sequence: TGCACCTGT



Dataset #: 1 Motif ID: 51 Motif name: Motif 51

Original motif Consensus sequence: GACCAATCA



Reverse complement motif Consensus sequence: TGATTGGTC



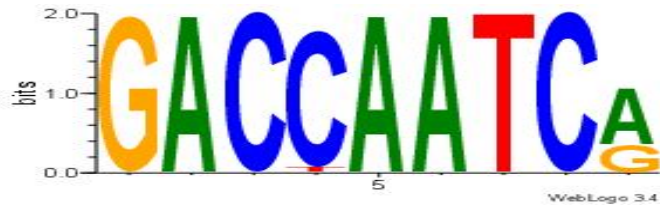
Best Matches for Motif ID 51 (Highest to Lowest)

Dataset #:	2
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:

GACCAATCA
GACCAATCA

Original motif Consensus sequence: GACCAATCA

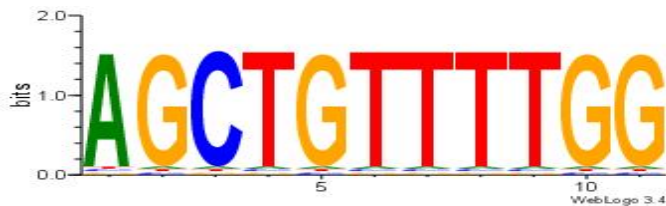


Reverse complement motif Consensus sequence: TGATTGGTC

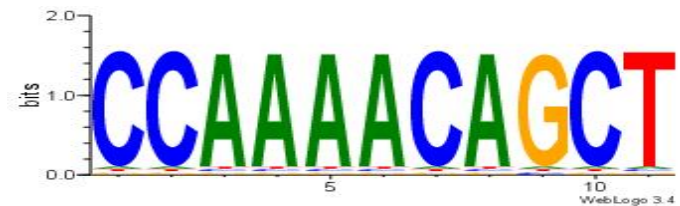


Dataset #: 1 Motif ID: 52 Motif name: Motif 52

Original motif Consensus sequence: AGCTGTTTTGG



Reverse complement motif Consensus sequence: CCAAACAGCT



Best Matches for Motif ID 52 (Highest to Lowest)

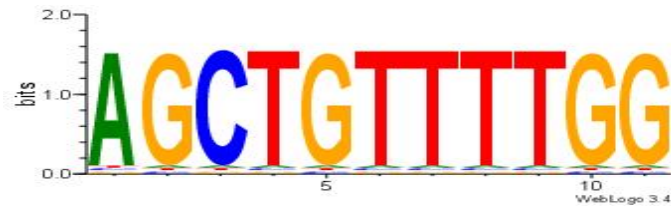
Dataset #:	2
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:

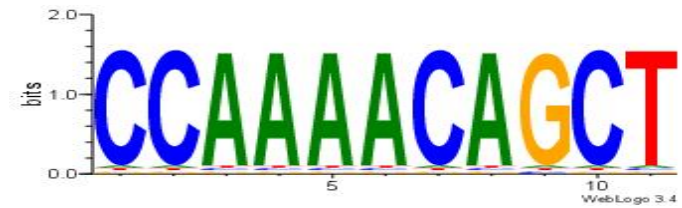
AGCTGTTTTGG

AGCTGTTTTGG

Original motif Consensus sequence: AGCTGTTTTGG

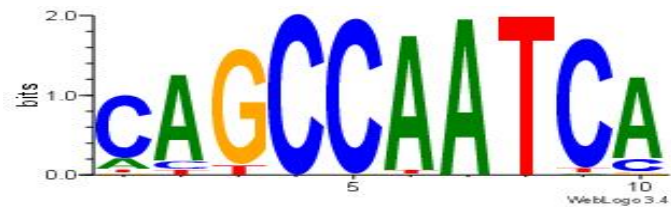


Reverse complement motif Consensus sequence: CCAAACAGCT

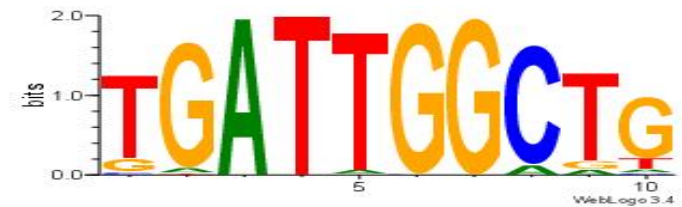


Dataset #: 1 Motif ID: 53 Motif name: Motif 53

Original motif Consensus sequence: CAGCCAATCA



Reverse complement motif Consensus sequence: TGATTGGCTG



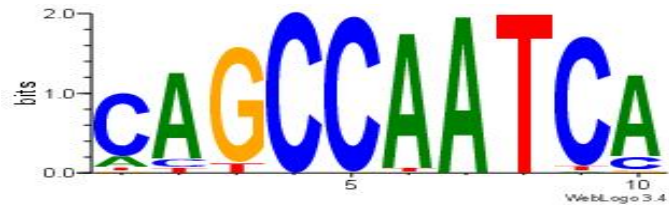
Best Matches for Motif ID 53 (Highest to Lowest)

Dataset #:	2
Motif ID:	110
Motif name:	Motif 110
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

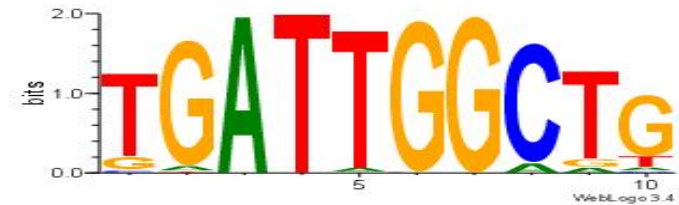
Number of overlap: 10
Similarity score: 0

Alignment:
CAGCCAATCA
CAGCCAATCA

Original motif Consensus sequence: CAGCCAATCA



Reverse complement motif Consensus sequence: TGATTGGCTG

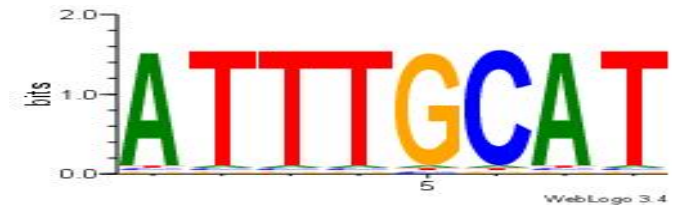


Dataset #: 1 Motif ID: 54 Motif name: Motif 54

Original motif Consensus sequence: ATGCAAAT



Reverse complement motif Consensus sequence: ATTTGCAT



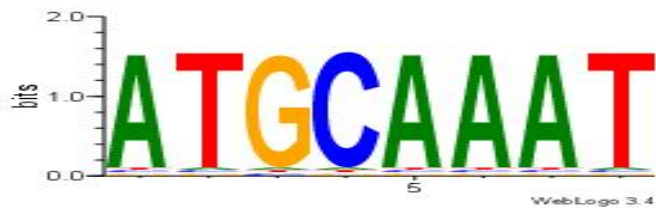
Best Matches for Motif ID 54 (Highest to Lowest)

Dataset #: 2
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

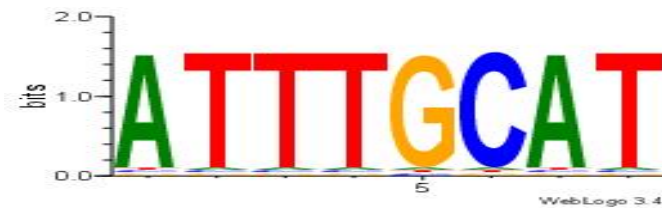
Direction: Backward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0

Alignment:
 ATGCAAAT
 ATGCAAAT

Original motif Consensus sequence: ATGCAAAT

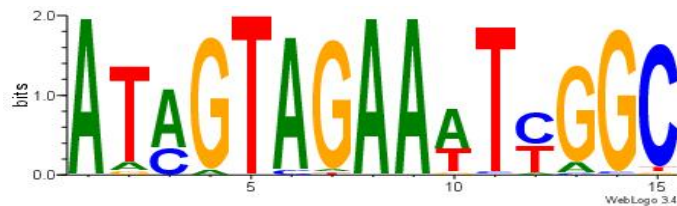


Reverse complement motif Consensus sequence: ATTTGCAT

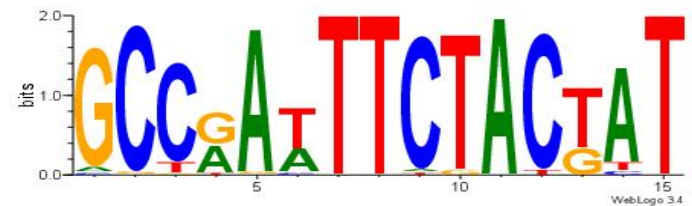


Dataset #: 1 Motif ID: 55 Motif name: Motif 55

Original motif Consensus sequence: ATAGTAGAAATCGGC



Reverse complement motif Consensus sequence: GCCAWTTCTACT



Best Matches for Motif ID 55 (Highest to Lowest)

Dataset #: 2
 Motif ID: 112
 Motif name: Motif 112

Motif ID: 113
 Motif name: Motif 113
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

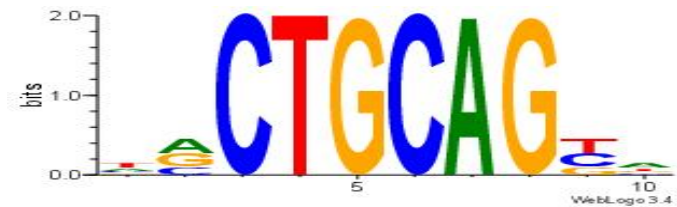
Alignment:

HRCTGCAGYD
 HRCTGCAGYD

Original motif Consensus sequence: HRCTGCAGYD



Reverse complement motif Consensus sequence: DMCTGCAGKH

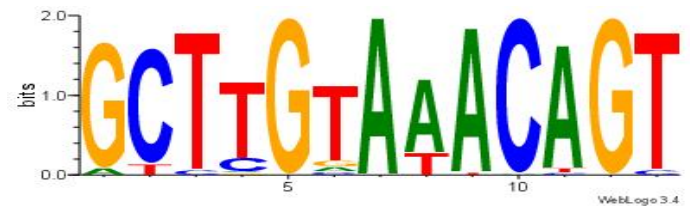


Dataset #: 1 Motif ID: 57 Motif name: Motif 57

Original motif Consensus sequence: ACTGTTTACAAGC



Reverse complement motif Consensus sequence: GCTTGTAACAGT



Best Matches for Motif ID 57 (Highest to Lowest)

Dataset #: 2
Motif ID: 114
Motif name: Motif 114
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0

Alignment:

ACTGTTTACAAGC
ACTGTTTACAAGC

Original motif Consensus sequence: ACTGTTTACAAGC



Reverse complement motif Consensus sequence: GCTTGTAACAGT



Dataset #: 2 Motif ID: 58 Motif name: Motif 58

Original motif Consensus sequence: YRRC CAATCAGAGV

Reverse complement motif Consensus sequence: VCTCTGATTGGKK



Best Matches for Motif ID 58 (Highest to Lowest)

Dataset #: 1
 Motif ID: 1
 Motif name: Motif 1
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0

Alignment:
 YYRCCAATCAGAGV
 YYRCCAATCAGAGV

Original motif Consensus sequence: YYRCCAATCAGAGV

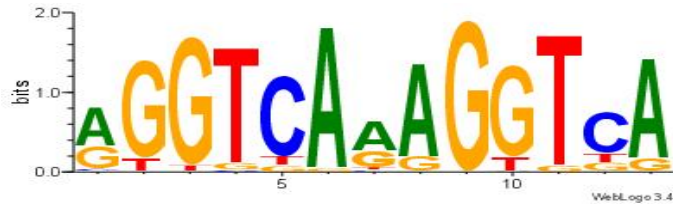


Reverse complement motif Consensus sequence: VCTCTGATTGGKK

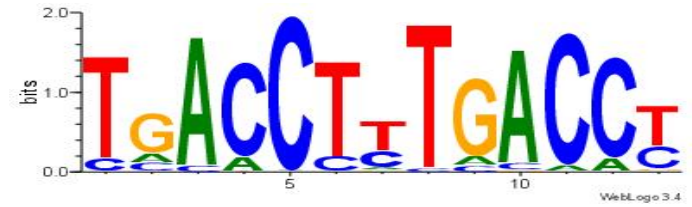


Dataset #: 2 Motif ID: 59 Motif name: Motif 59

Original motif Consensus sequence: RGGTCARAGGTCA



Reverse complement motif Consensus sequence: TGACCTKTGACCK



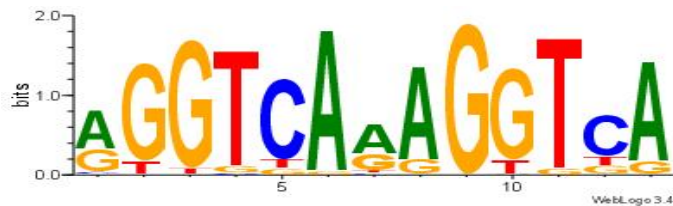
Best Matches for Motif ID 59 (Highest to Lowest)

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0

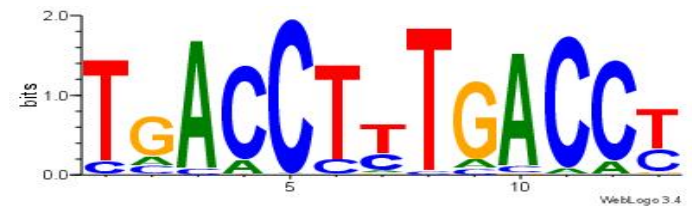
Alignment:

RGGTCARAGGTCA
RGGTCARAGGTCA

Original motif Consensus sequence: RGGTCARAGGTCA

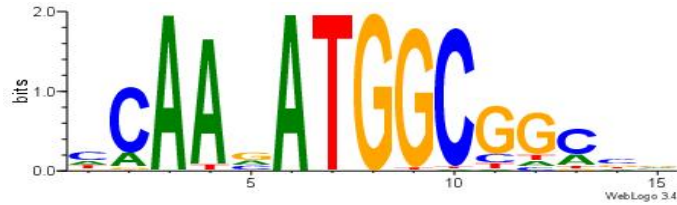


Reverse complement motif Consensus sequence: TGACCTKTGACCK

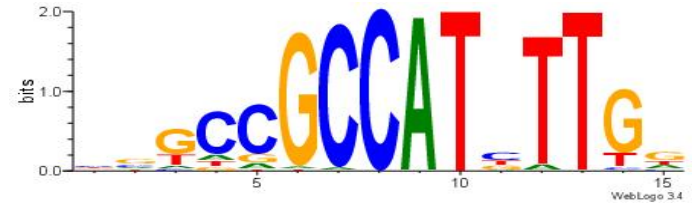


Dataset #: 2 Motif ID: 60 Motif name: Motif 60

Original motif Consensus sequence: HCAAVATGGCGGCBV



Reverse complement motif Consensus sequence: VBGCCGCCATVTT



Best Matches for Motif ID 60 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0

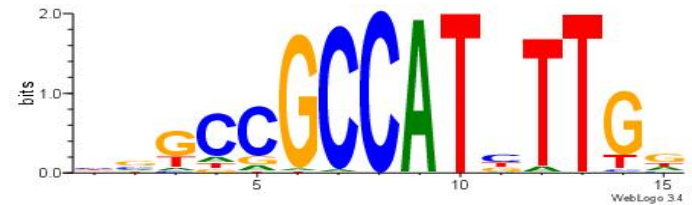
Alignment:

HCAAVATGGCGGCBV
HCAAVATGGCGGCBV

Original motif Consensus sequence: HCAAVATGGCGGCBV

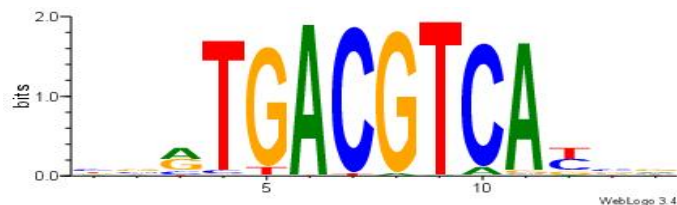


Reverse complement motif Consensus sequence: VBGCCGCCATVTT

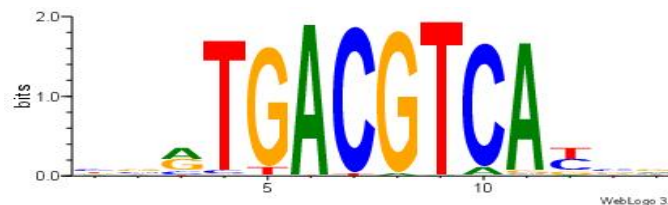


Dataset #: 2 Motif ID: 61 Motif name: Motif 61

Original motif Consensus sequence: BBRTGACGTCA^{YVV}



Reverse complement motif Consensus sequence: VVMTGACGTCA^{KB}



Best Matches for Motif ID 61 (Highest to Lowest)

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0

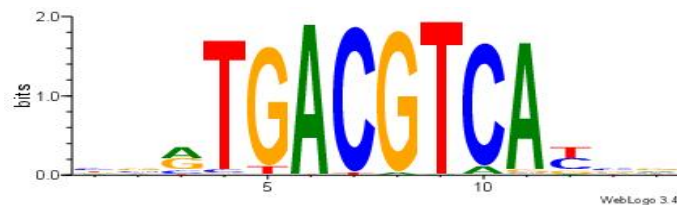
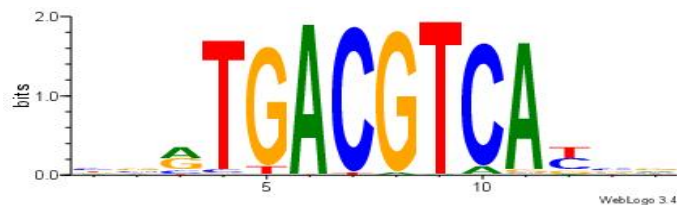
Alignment:

BBRTGACGTCA^{YVV}

BBRTGACGTCA^{YVV}

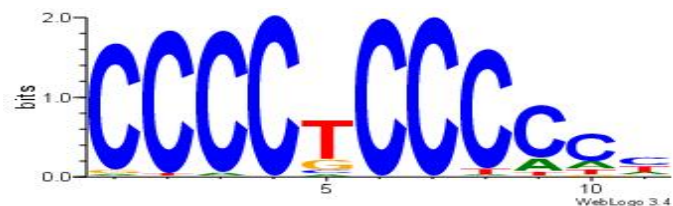
Original motif Consensus sequence: BBRTGACGTCA^{YVV}

Reverse complement motif Consensus sequence: VVMTGACGTCA^{KB}

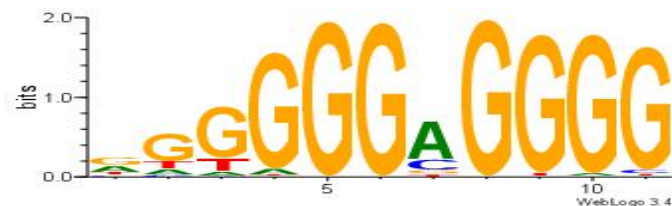


Dataset #: 2 Motif ID: 62 Motif name: Motif 62

Original motif Consensus sequence: CCCCTCCCCY



Reverse complement motif Consensus sequence: KGGGGGAGGGG

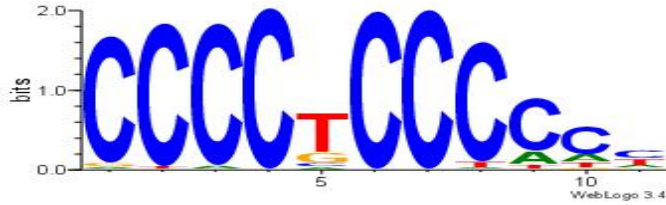


Best Matches for Motif ID 62 (Highest to Lowest)

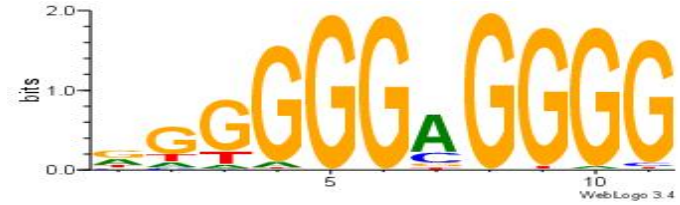
Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:
 CCCCTCCCCY
 CCCCTCCCCY

Original motif Consensus sequence: CCCCTCCCCY

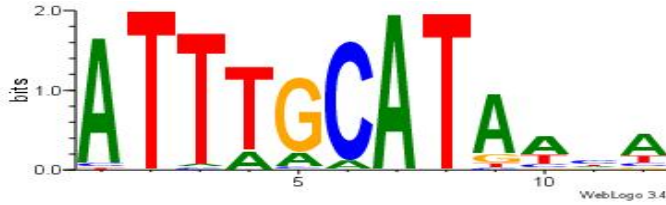


Reverse complement motif Consensus sequence: KGGGGGAGGGG

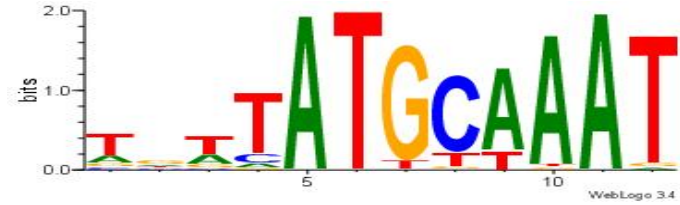


Dataset #: 2 Motif ID: 63 Motif name: Motif 63

Original motif Consensus sequence: ATTTGCATAWHA



Reverse complement motif Consensus sequence: TDWTATGCAAAT



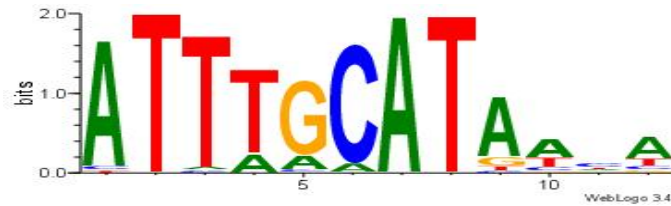
Best Matches for Motif ID 63 (Highest to Lowest)

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0

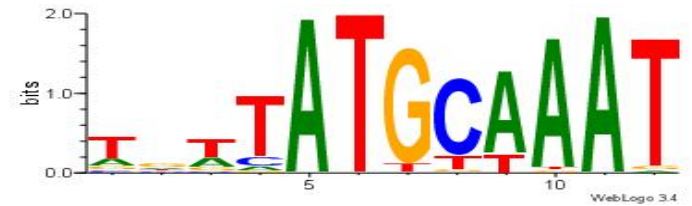
Alignment:

ATTTGCATAWHA
 ATTTGCATAWHA

Original motif Consensus sequence: ATTTGCATAWHA

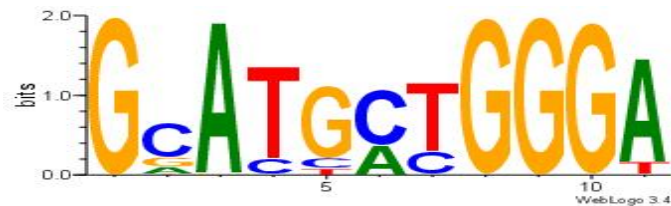


Reverse complement motif Consensus sequence: TDWTATGCAAAT



Dataset #: 2 Motif ID: 64 Motif name: Motif 64

Original motif Consensus sequence: GCATGMTGGGA



Reverse complement motif Consensus sequence: TCCCARCATGC



Best Matches for Motif ID 64 (Highest to Lowest)

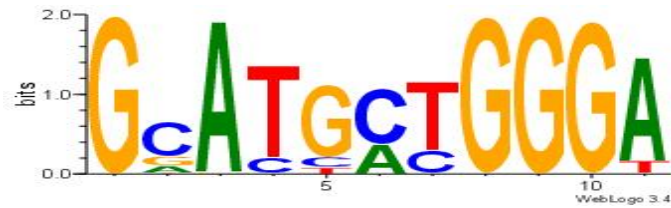
Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:

GCATGMTGGGA

GCATGMTGGGA

Original motif Consensus sequence: GCATGMTGGGA

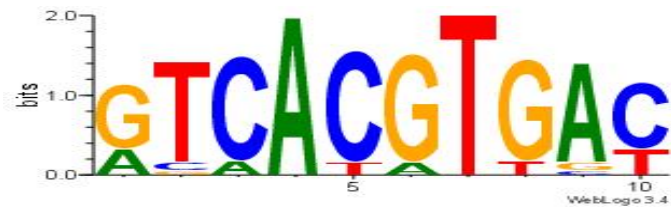


Reverse complement motif Consensus sequence: TCCCARCATGC

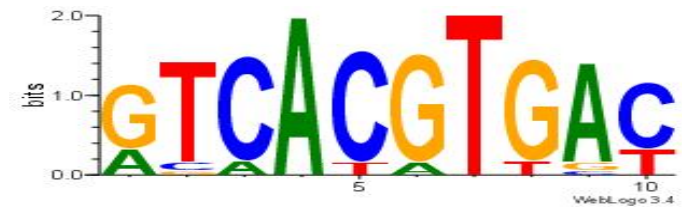


Dataset #: 2 Motif ID: 65 Motif name: Motif 65

Original motif Consensus sequence: GTCACGTGAC



Reverse complement motif Consensus sequence: GTCACGTGAC



Best Matches for Motif ID 65 (Highest to Lowest)

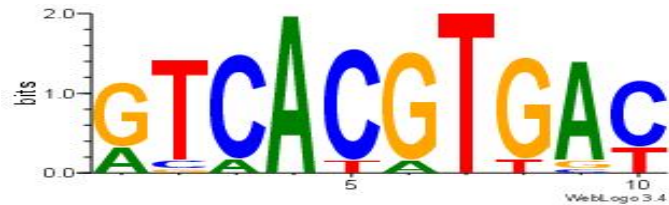
Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 10
Similarity score: 0

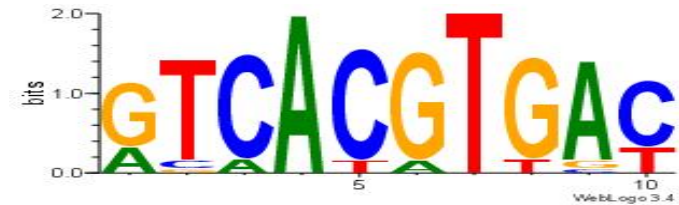
Alignment:

GTCACGTGAC
GTCACGTGAC

Original motif Consensus sequence: GTCACGTGAC



Reverse complement motif Consensus sequence: GTCACGTGAC

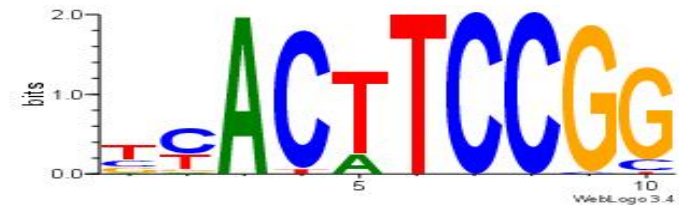


Dataset #: 2 Motif ID: 66 Motif name: Motif 66

Original motif Consensus sequence: CCGGAAGTRA



Reverse complement motif Consensus sequence: TMACTCCGG



Best Matches for Motif ID 66 (Highest to Lowest)

Dataset #: 1
Motif ID: 9
Motif name: Motif 9
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

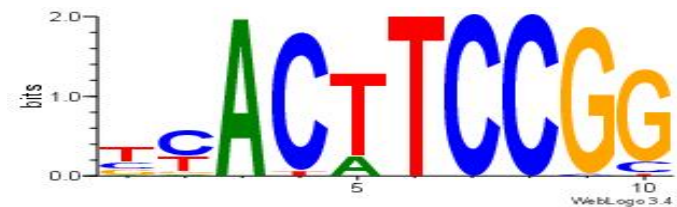
Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

Alignment:
 CCGGAAGTRA
 CCGGAAGTRA

Original motif Consensus sequence: CCGGAAGTRA

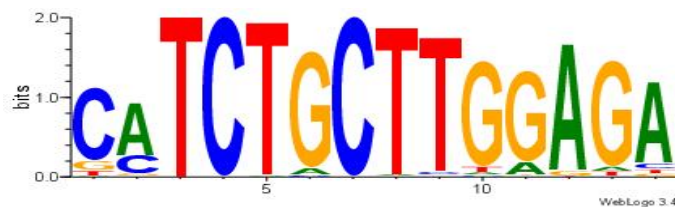


Reverse complement motif Consensus sequence: TMACTTCCGG



Dataset #: 2 Motif ID: 67 Motif name: Motif 67

Original motif Consensus sequence: CATCTGCTTGGAGA



Reverse complement motif Consensus sequence: TCTCCAAGCAGATG



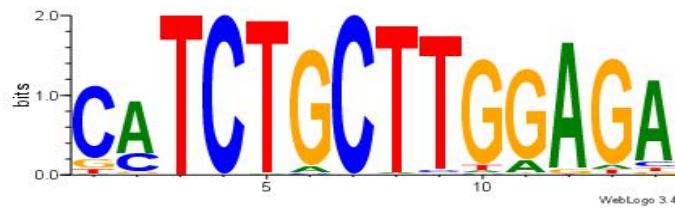
Best Matches for Motif ID 67 (Highest to Lowest)

Dataset #: 1
 Motif ID: 10
 Motif name: Motif 10

Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0

Alignment:
 CATCTGCTTGGAGA
 CATCTGCTTGGAGA

Original motif Consensus sequence: CATCTGCTTGGAGA

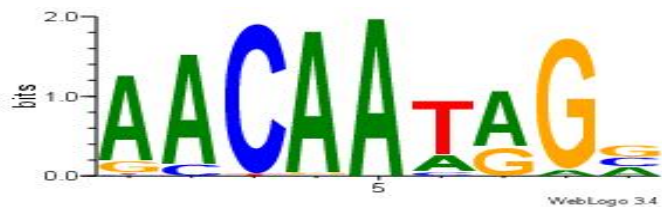


Reverse complement motif Consensus sequence: TCTCCAAGCAGATG

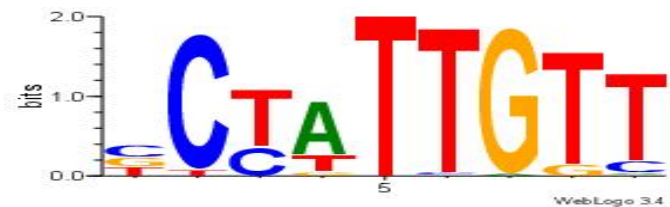


Dataset #: 2 Motif ID: 68 Motif name: Motif 68

Original motif Consensus sequence: AACAA TAG



Reverse complement motif Consensus sequence: VCKATTGTT



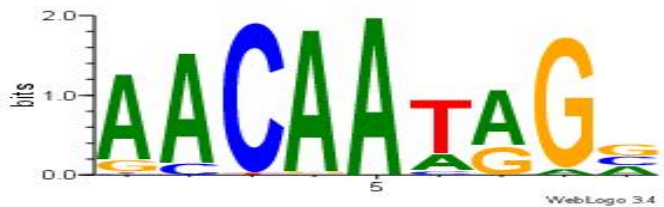
Best Matches for Motif ID 68 (Highest to Lowest)

Dataset #: 1

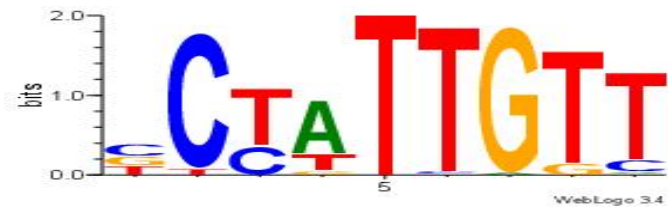
Motif ID: 11
 Motif name: Motif 11
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 9
 Similarity score: 0

Alignment:
 AACATR GV
 AACATR GV

Original motif Consensus sequence: AACATR GV

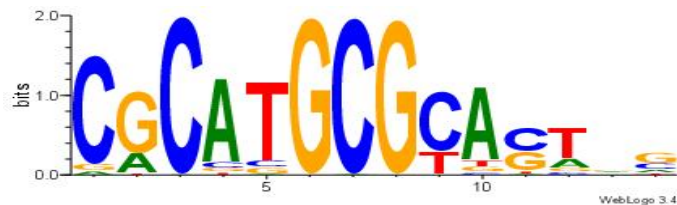


Reverse complement motif Consensus sequence: VCKATTGTT



Dataset #: 2 Motif ID: 69 Motif name: Motif 69

Original motif Consensus sequence: CGCATGCGCASTVS



Reverse complement motif Consensus sequence: SVASTGCGCATGC



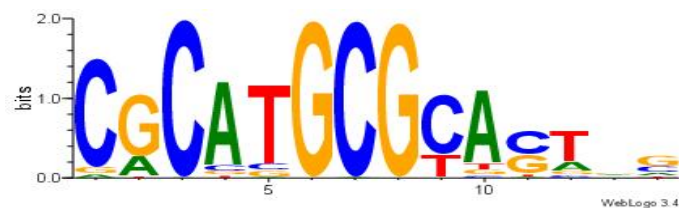
Best Matches for Motif ID 69 (Highest to Lowest)

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0

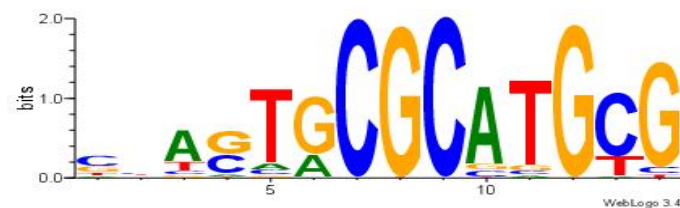
Alignment:

CGCATGCGCASTVS
CGCATGCGCASTVS

Original motif Consensus sequence: CGCATGCGCASTVS



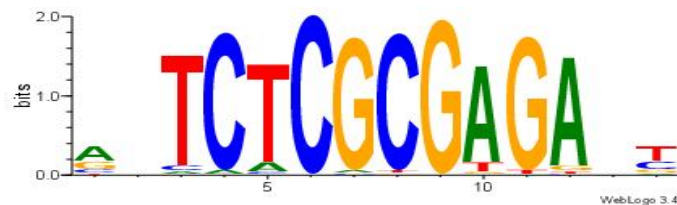
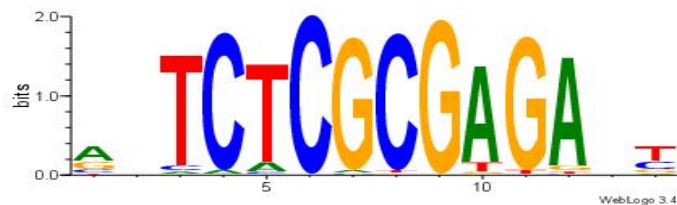
Reverse complement motif Consensus sequence: SVASTGCGCATGC



Dataset #: 2 Motif ID: 70 Motif name: Motif 70

Original motif Consensus sequence: RVTCTCGCGAGABY

Reverse complement motif Consensus sequence: MVTCTCGCGAGAB

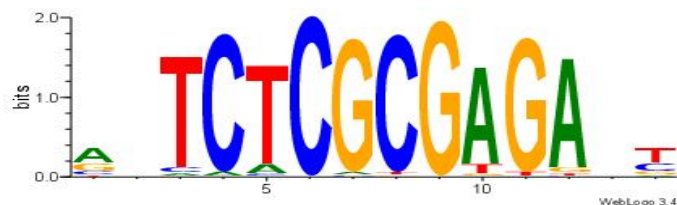


Best Matches for Motif ID 70 (Highest to Lowest)

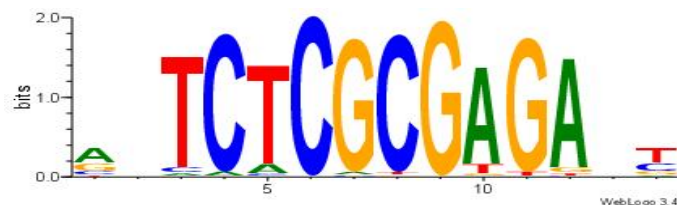
Dataset #: 1
 Motif ID: 13
 Motif name: Motif 13
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0

Alignment:
 RVTCTCGCGAGABY
 RVTCTCGCGAGABY

Original motif Consensus sequence: RVTCTCGCGAGABY



Reverse complement motif Consensus sequence: MVTCTCGCGAGABY

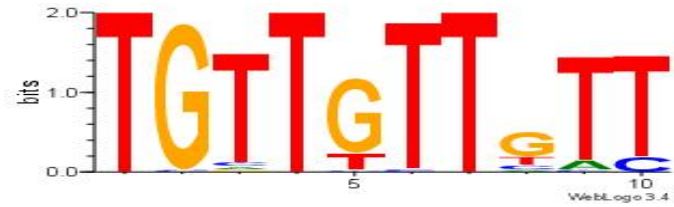


Dataset #: 2 Motif ID: 71 Motif name: Motif 71

Original motif Consensus sequence: AACACAACA



Reverse complement motif Consensus sequence: TGTTGTTGTT



Best Matches for Motif ID 71 (Highest to Lowest)

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:

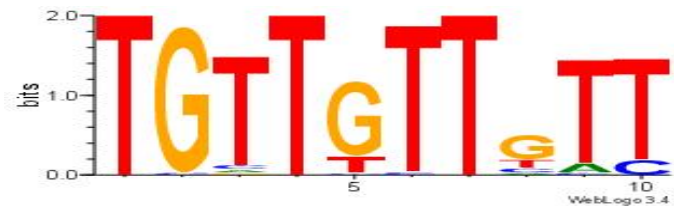
AACAACAACA

AACAACAACA

Original motif Consensus sequence: AACACAACA

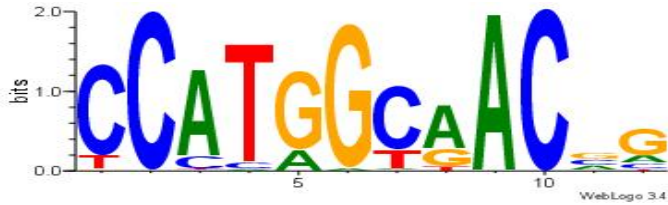


Reverse complement motif Consensus sequence: TGTTGTTGTT

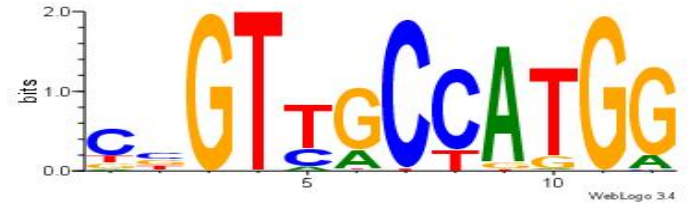


Dataset #: 2 Motif ID: 72 Motif name: Motif 72

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG



Best Matches for Motif ID 72 (Highest to Lowest)

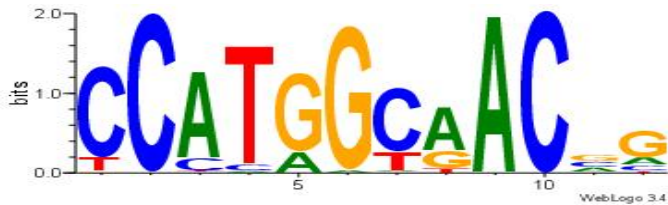
Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0

Alignment:

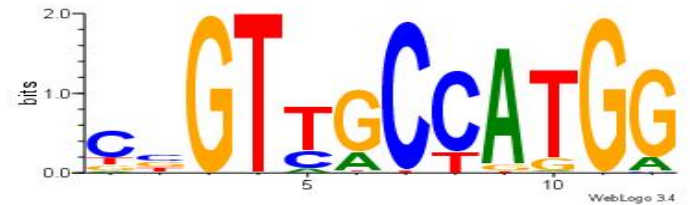
CCATGGCAACVG

CCATGGCAACVG

Original motif Consensus sequence: CCATGGCAACVG



Reverse complement motif Consensus sequence: CVGTTGCCATGG



Dataset #: 2 Motif ID: 73 Motif name: Motif 73

Original motif Consensus sequence: TCCCGCCVW



Reverse complement motif Consensus sequence: WBGGCGGGA



Best Matches for Motif ID 73 (Highest to Lowest)

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:
TCCCGCCVW
TCCCGCCVW

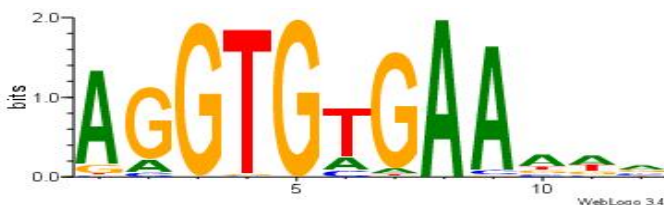
Original motif Consensus sequence: TCCCGCCVW

Reverse complement motif Consensus sequence: WBGGCGGGA

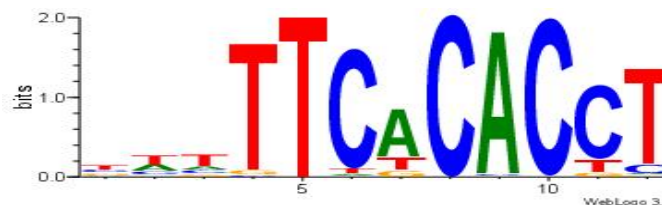


Dataset #: 2 Motif ID: 74 Motif name: Motif 74

Original motif Consensus sequence: AGGTGTGAAWV



Reverse complement motif Consensus sequence: BWTTTCACACCT

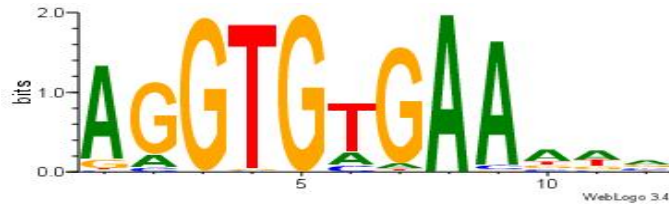


Best Matches for Motif ID 74 (Highest to Lowest)

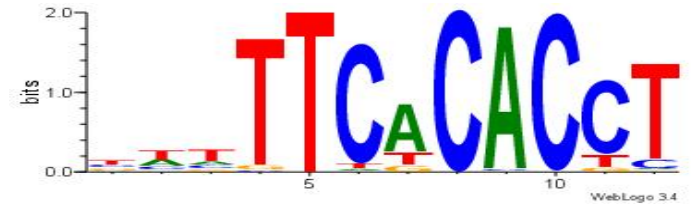
Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0

Alignment:
 AGGTGTGAAWV
 AGGTGTGAAWV

Original motif Consensus sequence: AGGTGTGAAWV



Reverse complement motif Consensus sequence: BWTTCACACCT



Dataset #: 2 Motif ID: 75 Motif name: Motif 75

Original motif Consensus sequence: GMTAATTA



Reverse complement motif Consensus sequence: TAATTAYC



Best Matches for Motif ID 75 (Highest to Lowest)

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

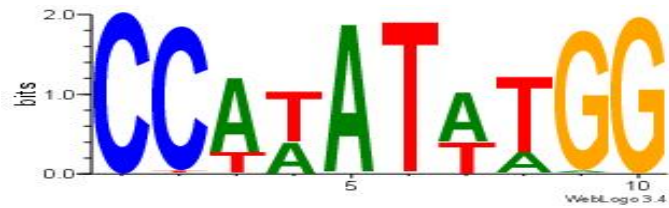
Alignment:

Alignment:

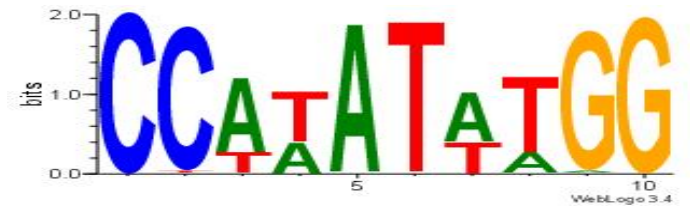
CCAWATWTGG

CCAWATWTGG

Original motif Consensus sequence: CCAWATWTGG

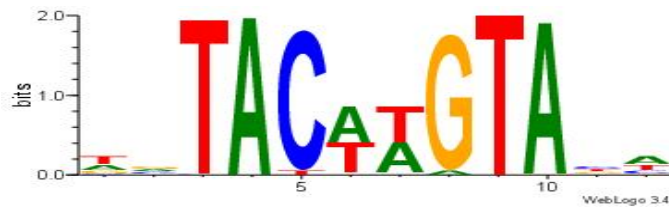


Reverse complement motif Consensus sequence: CCAWATWTGG

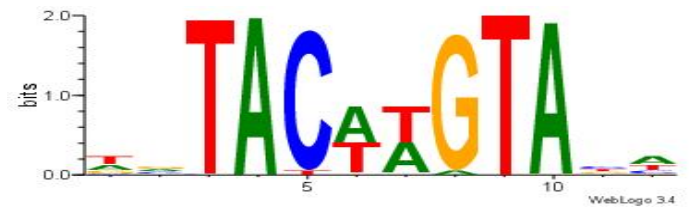


Dataset #: 2 Motif ID: 77 Motif name: Motif 77

Original motif Consensus sequence: DVTACWWGTABH



Reverse complement motif Consensus sequence: HBTACWWGTAVD



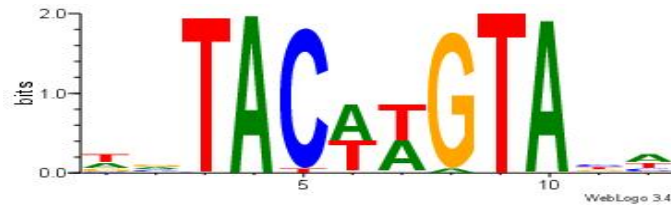
Best Matches for Motif ID 77 (Highest to Lowest)

Dataset #:	1
Motif ID:	20
Motif name:	Motif 20
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

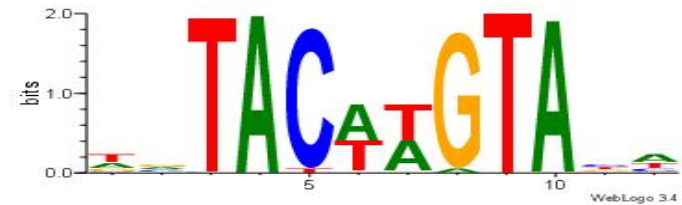
Number of overlap: 12
Similarity score: 0

Alignment:
DVTACWWGTABH
DVTACWWGTABH

Original motif Consensus sequence: DVTACWWGTABH

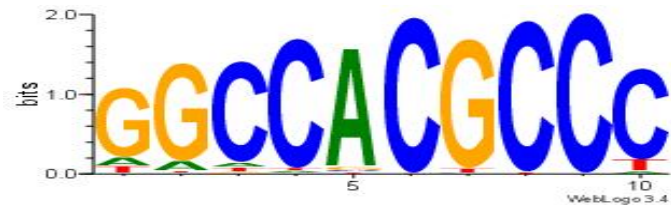


Reverse complement motif Consensus sequence: HBTACWWGTAVD

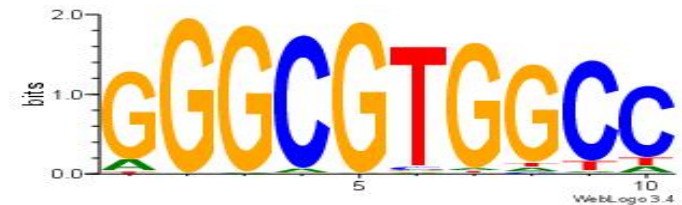


Dataset #: 2 Motif ID: 78 Motif name: Motif 78

Original motif Consensus sequence: GGCCACGCC



Reverse complement motif Consensus sequence: GGCGTGGCC



Best Matches for Motif ID 78 (Highest to Lowest)

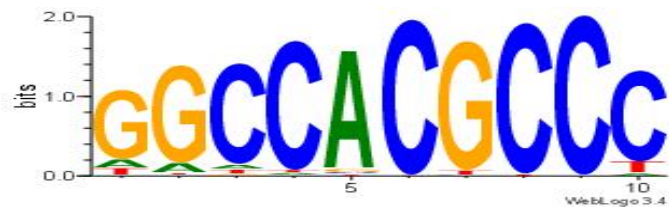
Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

Direction: Backward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

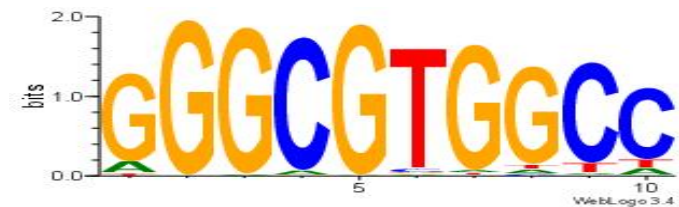
Alignment:

GGCCACGCCC
 GGCCACGCCC

Original motif Consensus sequence: GGCCACGCCC



Reverse complement motif Consensus sequence: GGGCGTGGCC

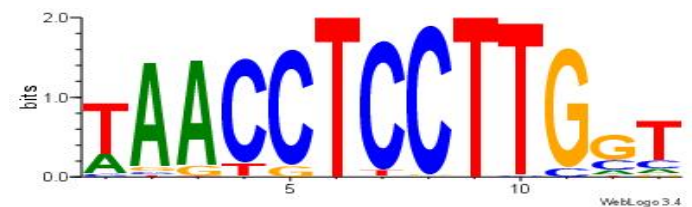


Dataset #: 2 Motif ID: 79 Motif name: Motif 79

Original motif Consensus sequence: ACCAAGGAGGTTA



Reverse complement motif Consensus sequence: TAACCTCCTTGT



Best Matches for Motif ID 79 (Highest to Lowest)

Dataset #: 1
 Motif ID: 22
 Motif name: Motif 22

Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

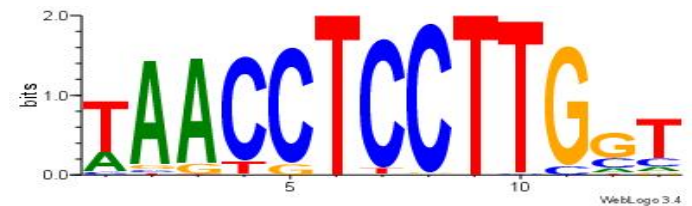
Alignment:

ACCAAGGAGGTTA
 ACCAAGGAGGTTA

Original motif Consensus sequence: ACCAAGGAGGTTA

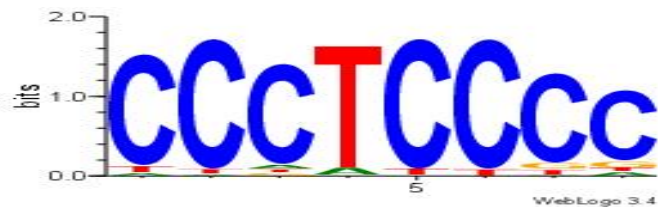


Reverse complement motif Consensus sequence: TAACCTCCTTGGT



Dataset #: 2 Motif ID: 80 Motif name: Motif 80

Original motif Consensus sequence: CCCTCCCC



Reverse complement motif Consensus sequence: GGGGAGGG



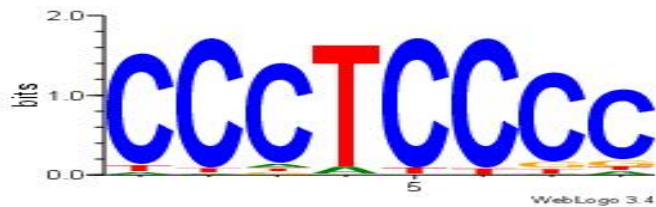
Best Matches for Motif ID 80 (Highest to Lowest)

Dataset #: 1

Motif ID: 23
 Motif name: Motif 23
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 8
 Similarity score: 0

Alignment:
 CCCTCCCC
 CCCTCCCC

Original motif Consensus sequence: CCCTCCCC

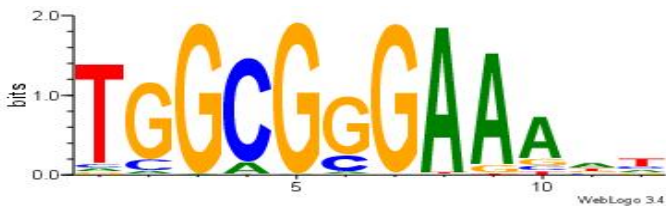


Reverse complement motif Consensus sequence: GGGGAGGG

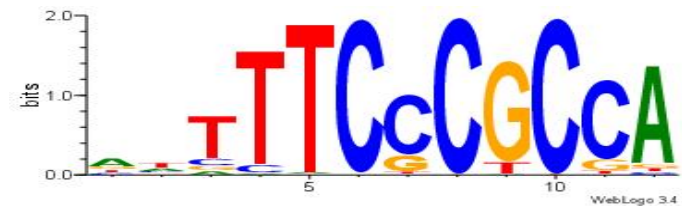


Dataset #: 2 Motif ID: 81 Motif name: Motif 81

Original motif Consensus sequence: TGGCGGAAADH



Reverse complement motif Consensus sequence: HDTTCCCGCCA



Best Matches for Motif ID 81 (Highest to Lowest)

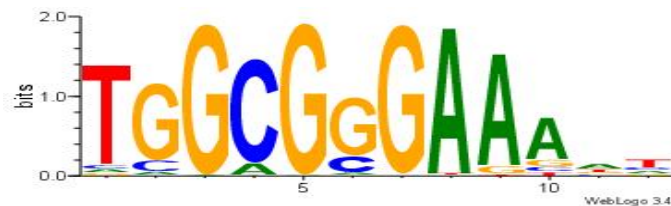
Dataset #: 1
Motif ID: 24
Motif name: Motif 24
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0

Alignment:

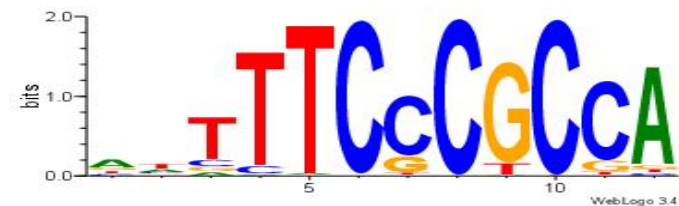
TGGCGGGAAADH

TGGCGGGAAADH

Original motif Consensus sequence: TGGCGGGAAADH



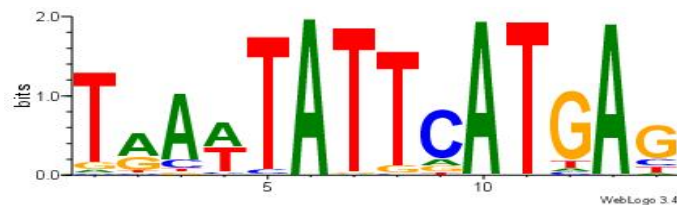
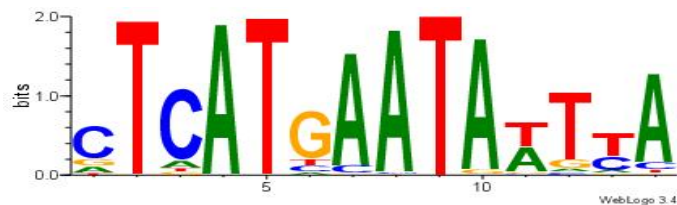
Reverse complement motif Consensus sequence: HDTTCCC GCCA



Dataset #: 2 Motif ID: 82 Motif name: Motif 82

Original motif Consensus sequence: CTCATGAATAWTYA

Reverse complement motif Consensus sequence: TMAWTATTCATGA

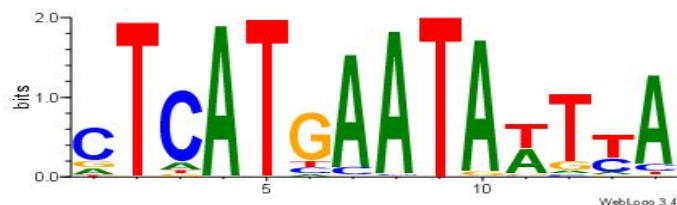


Best Matches for Motif ID 82 (Highest to Lowest)

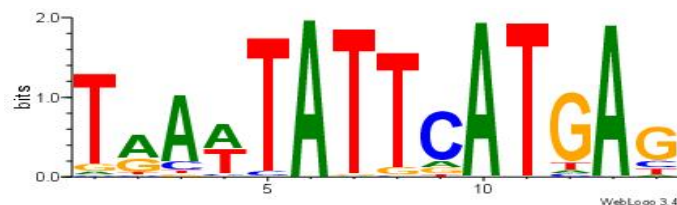
Dataset #: 1
 Motif ID: 25
 Motif name: Motif 25
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 14
 Similarity score: 0

Alignment:
 CTCATGAATAWTTA
 CTCATGAATAWTTA

Original motif Consensus sequence: CTCATGAATAWTTA

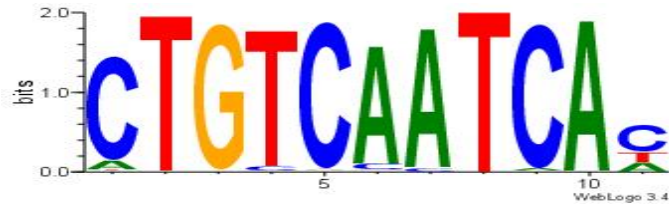


Reverse complement motif Consensus sequence: TAAATTCATGAG

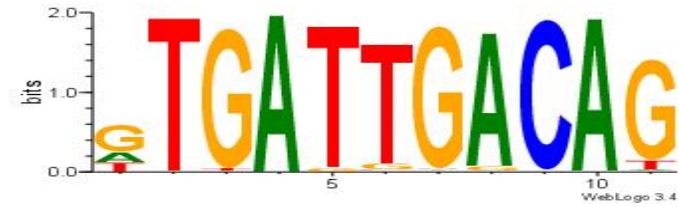


Dataset #: 2 Motif ID: 83 Motif name: Motif 83

Original motif Consensus sequence: CTGTCAATCAC



Reverse complement motif Consensus sequence: GTGATTGACAG



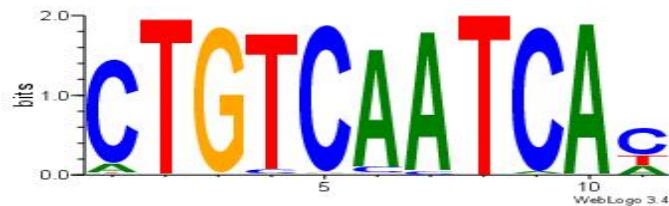
Best Matches for Motif ID 83 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

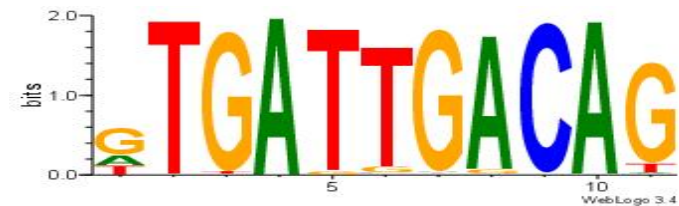
Alignment:

```
CTGTCAATCAC  
CTGTCAATCAC
```

Original motif Consensus sequence: CTGTCAATCAC



Reverse complement motif Consensus sequence: GTGATTGACAG



Dataset #: 2 Motif ID: 84 Motif name: Motif 84

Original motif Consensus sequence: CAGGTAAG



Reverse complement motif Consensus sequence: CTTACCTG



Best Matches for Motif ID 84 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:
CAGGTAAG
CAGGTAAG

Original motif Consensus sequence: CAGGTAAG



Reverse complement motif Consensus sequence: CTTACCTG



Dataset #: 2 Motif ID: 85 Motif name: Motif 85

Original motif Consensus sequence: AGCGCCVCCTR



Reverse complement motif Consensus sequence: KAGGVGGCGCT



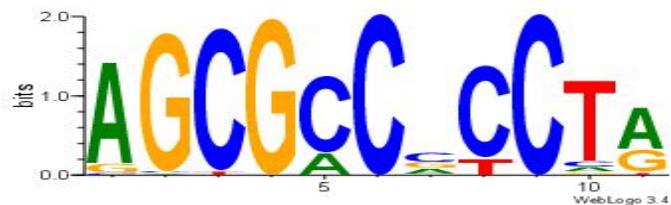
Best Matches for Motif ID 85 (Highest to Lowest)

Dataset #:	1
Motif ID:	28
Motif name:	Motif 28
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:
AGCGCCVCCTR
AGCGCCVCCTR

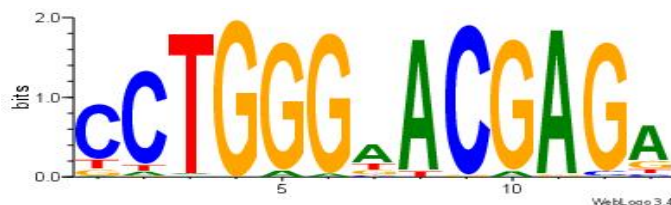
Original motif Consensus sequence: AGCGCCVCCTR

Reverse complement motif Consensus sequence: KAGGVGGCGCT



Dataset #: 2 Motif ID: 86 Motif name: Motif 86

Original motif Consensus sequence: CCTGGGAACGAGA



Reverse complement motif Consensus sequence: TCTCGTCCAGG

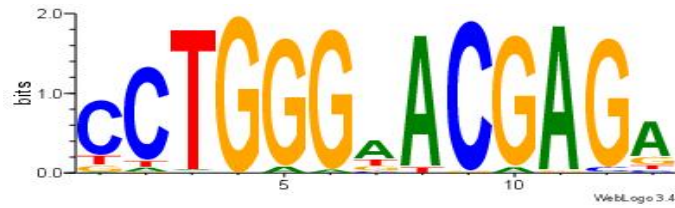


Best Matches for Motif ID 86 (Highest to Lowest)

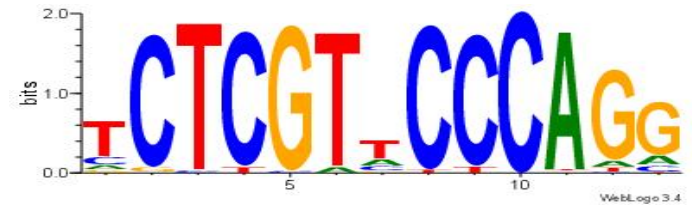
Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0

Alignment:
 CCTGGGAACGAGA
 CCTGGGAACGAGA

Original motif Consensus sequence: CCTGGGAACGAGA



Reverse complement motif Consensus sequence: TCTCGTTCCAGG



Dataset #: 2 Motif ID: 87 Motif name: Motif 87

Original motif Consensus sequence: RTGACGTASD



Reverse complement motif Consensus sequence: DSTACGTCAK



Best Matches for Motif ID 87 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

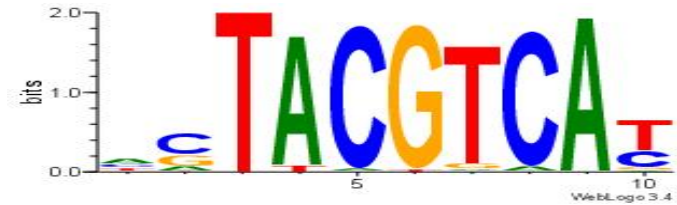
Alignment:

RTGACGTASD
RTGACGTASD

Original motif Consensus sequence: RTGACGTASD

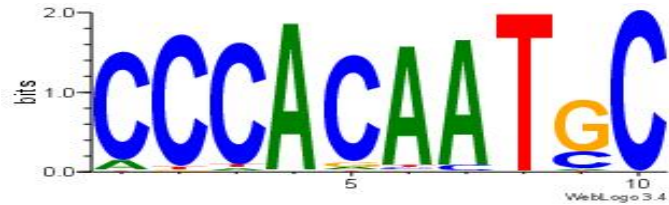


Reverse complement motif Consensus sequence: DSTACGTCAK

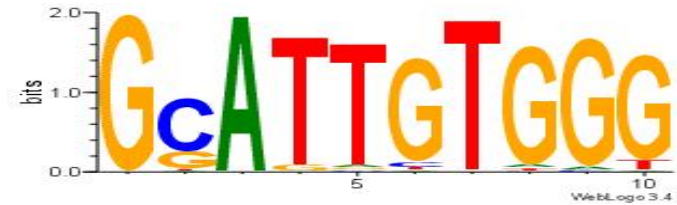


Dataset #: 2 Motif ID: 88 Motif name: Motif 88

Original motif Consensus sequence: CCCACAATGC



Reverse complement motif Consensus sequence: GCATTGTGGG



Best Matches for Motif ID 88 (Highest to Lowest)

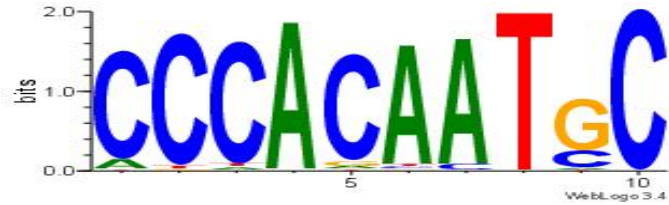
Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:

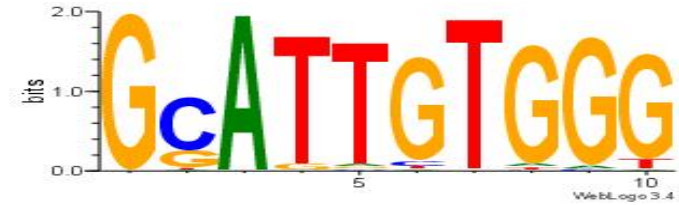
CCCACAATGC

CCCACAATGC

Original motif Consensus sequence: CCCACAATGC

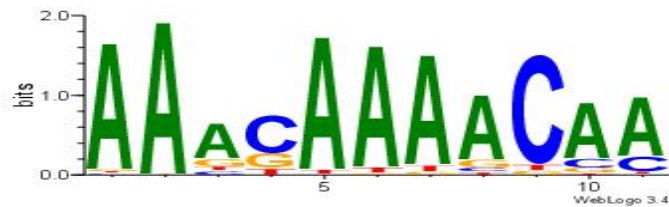


Reverse complement motif Consensus sequence: GCATTGTGGG

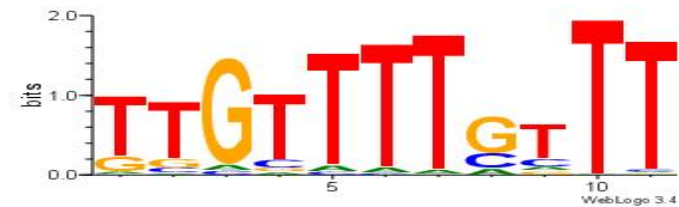


Dataset #: 2 Motif ID: 89 Motif name: Motif 89

Original motif Consensus sequence: AAACAAACAA



Reverse complement motif Consensus sequence: TTGTTTGTTT



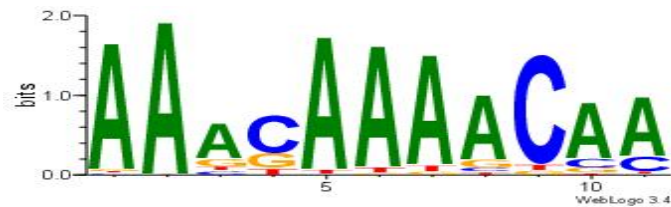
Best Matches for Motif ID 89 (Highest to Lowest)

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

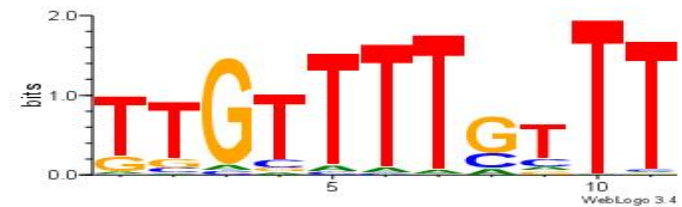
Number of overlap: 11
 Similarity score: 0

Alignment:
 AAACAAAACAA
 AAACAAAACAA

Original motif Consensus sequence: AAACAAAACAA



Reverse complement motif Consensus sequence: TTGTTTGTTT

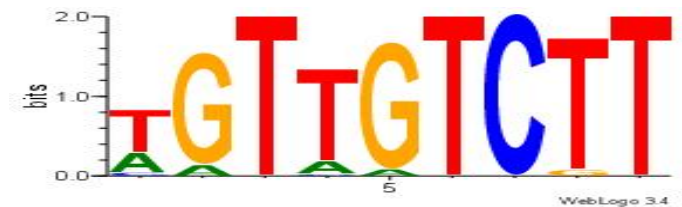


Dataset #: 2 Motif ID: 90 Motif name: Motif 90

Original motif Consensus sequence: AAGACAACA



Reverse complement motif Consensus sequence: TGTTGTCTT



Best Matches for Motif ID 90 (Highest to Lowest)

Dataset #: 1
 Motif ID: 33
 Motif name: Motif 33
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif

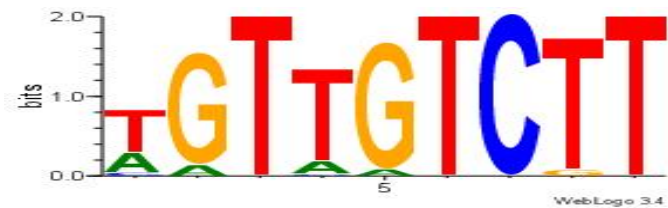
Direction: Backward
 Position number: 1
 Number of overlap: 9
 Similarity score: 0

Alignment:
 AAGACAACA
 AAGACAACA

Original motif Consensus sequence: AAGACAACA

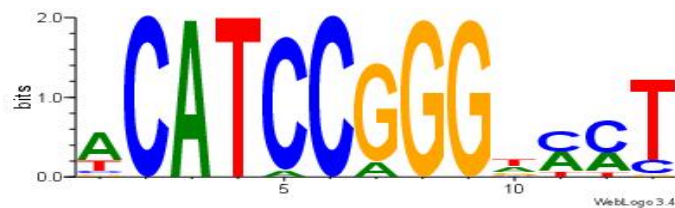


Reverse complement motif Consensus sequence: TGTTGTCTT

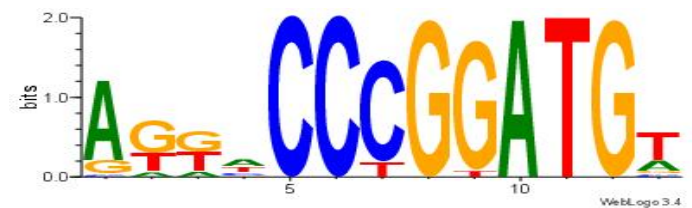


Dataset #: 2 Motif ID: 91 Motif name: Motif 91

Original motif Consensus sequence: ACATCCGGGDMMT



Reverse complement motif Consensus sequence: ARRDCCGGATGT



Best Matches for Motif ID 91 (Highest to Lowest)

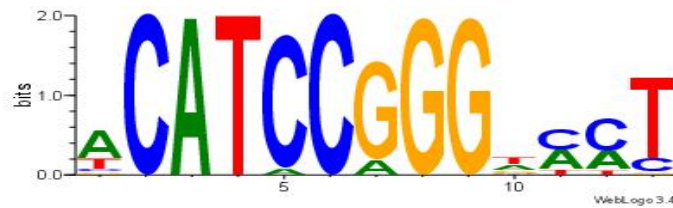
Dataset #: 1
 Motif ID: 34
 Motif name: Motif 34

Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

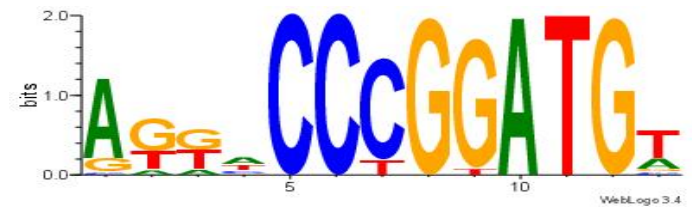
Alignment:

ACATCCGGGDMMT
 ACATCCGGGDMMT

Original motif Consensus sequence: ACATCCGGGDMMT

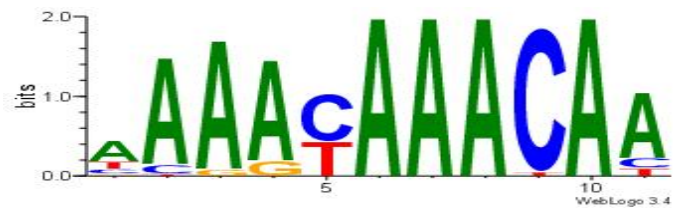


Reverse complement motif Consensus sequence: ARRDCCCGGATGT



Dataset #: 2 Motif ID: 92 Motif name: Motif 92

Original motif Consensus sequence: AAAAYAAACAA



Reverse complement motif Consensus sequence: TTGTTTKTTTT



Best Matches for Motif ID 92 (Highest to Lowest)

Dataset #: 1

Motif ID: 35
 Motif name: Motif 35
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 11
 Similarity score: 0

Alignment:

AAAAYAAACAA
 AAAAYAAACAA

Original motif Consensus sequence: AAAAYAAACAA

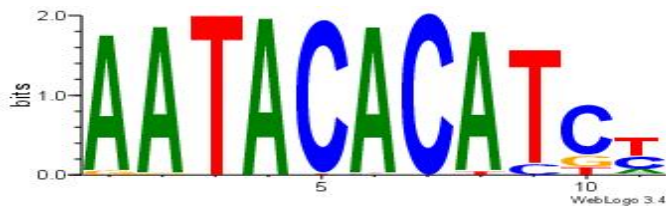


Reverse complement motif Consensus sequence: TTGTTTKTTTT

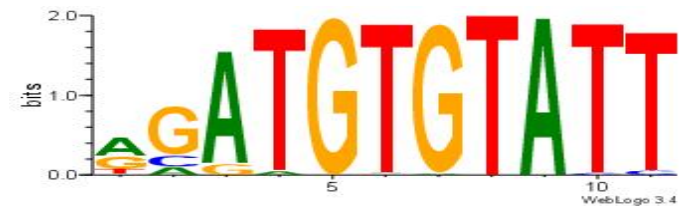


Dataset #: 2 Motif ID: 93 Motif name: Motif 93

Original motif Consensus sequence: AATACACATCY



Reverse complement motif Consensus sequence: MGATGTGTATT



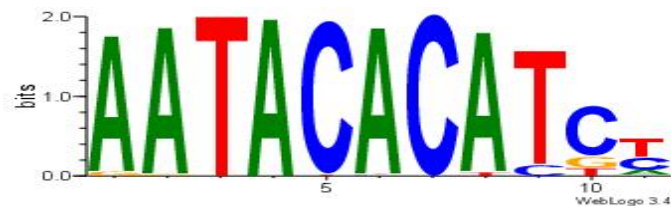
Best Matches for Motif ID 93 (Highest to Lowest)

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0

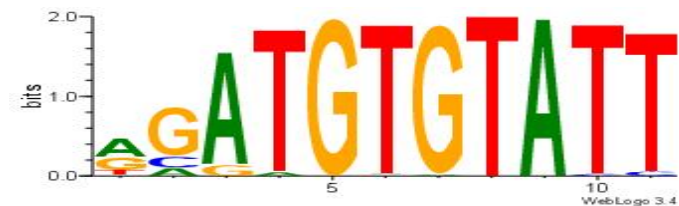
Alignment:

AATACACATCY
AATACACATCY

Original motif Consensus sequence: AATACACATCY



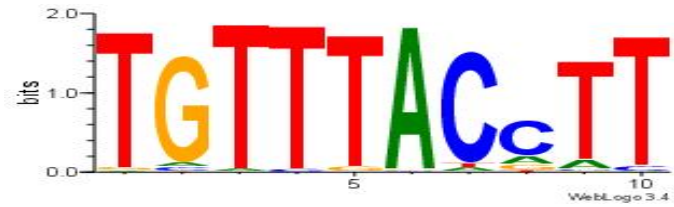
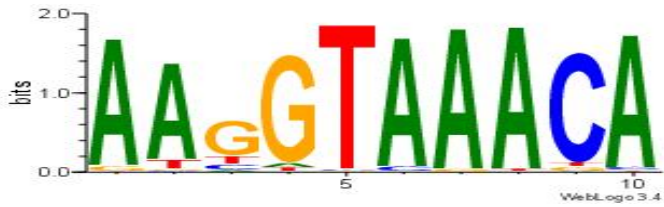
Reverse complement motif Consensus sequence: MGATGTGTATT



Dataset #: 2 Motif ID: 94 Motif name: Motif 94

Original motif Consensus sequence: AAGGTAAACA

Reverse complement motif Consensus sequence: TGTTTACCTT



Best Matches for Motif ID 94 (Highest to Lowest)

Dataset #: 1
 Motif ID: 37
 Motif name: Motif 37
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 10
 Similarity score: 0

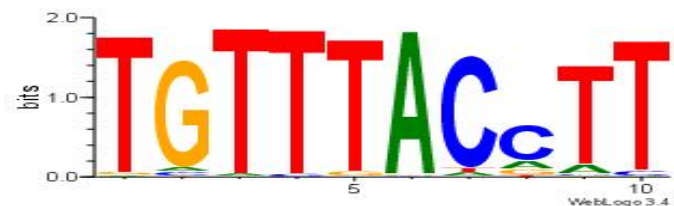
Alignment:

AAGGTAAACA
 AAGGTAAACA

Original motif Consensus sequence: AAGGTAAACA



Reverse complement motif Consensus sequence: TGTTTACCTT



Dataset #: 2 Motif ID: 95 Motif name: Motif 95

Original motif Consensus sequence: CGCCGCCA



Reverse complement motif Consensus sequence: TGGCGGCG



Best Matches for Motif ID 95 (Highest to Lowest)

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

Alignment:
CGCCGCCA
CGCCGCCA

Original motif Consensus sequence: CGCCGCCA



Reverse complement motif Consensus sequence: TGGCGGCG

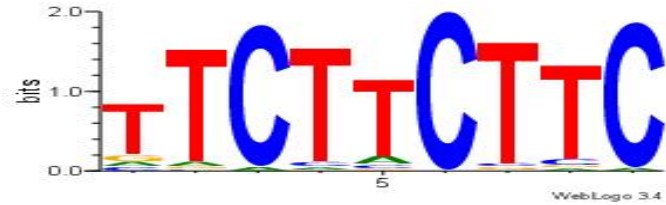


Dataset #: 2 Motif ID: 96 Motif name: Motif 96

Original motif Consensus sequence: GAAGAAGAA



Reverse complement motif Consensus sequence: TTCTTCTTC



Best Matches for Motif ID 96 (Highest to Lowest)

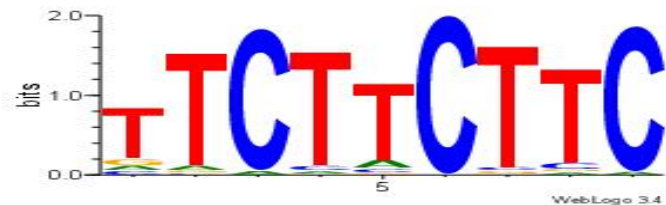
Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:
GAAGAAGAA
GAAGAAGAA

Original motif Consensus sequence: GAAGAAGAA

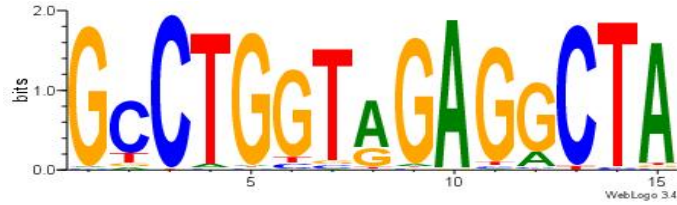


Reverse complement motif Consensus sequence: TTCTTCTTC

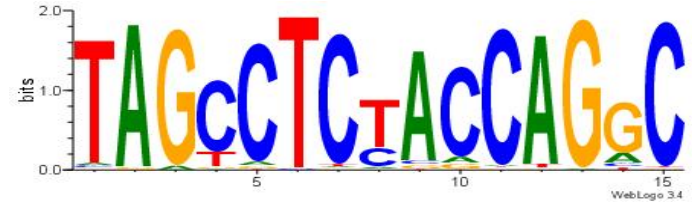


Dataset #: 2 Motif ID: 97 Motif name: Motif 97

Original motif Consensus sequence: GCCTGGTAGAGGCTA



Reverse complement motif Consensus sequence: TAGCCTCTACCAG



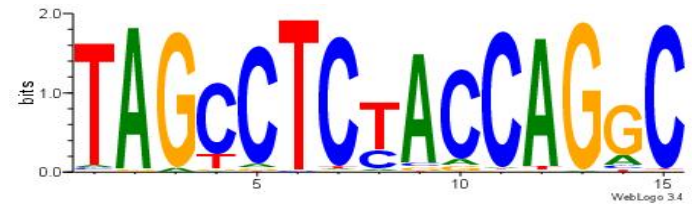
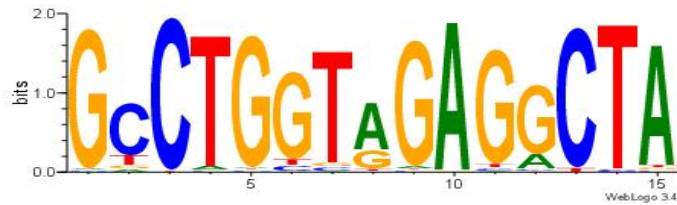
Best Matches for Motif ID 97 (Highest to Lowest)

Dataset #:	1
Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0

Alignment:
GCCTGGTAGAGGCTA
GCCTGGTAGAGGCTA

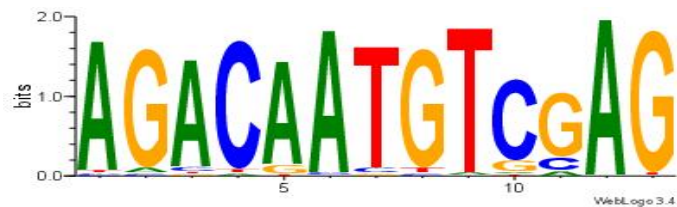
Original motif Consensus sequence: GCCTGGTAGAGGCTA

Reverse complement motif Consensus sequence: TAGCCTCTACCAG

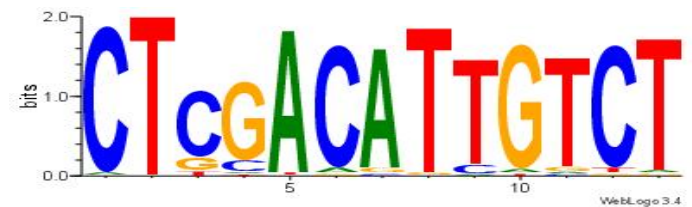


Dataset #: 2 Motif ID: 98 Motif name: Motif 98

Original motif Consensus sequence: AGACAATGTCGAG



Reverse complement motif Consensus sequence: CTCGACATTGTCT

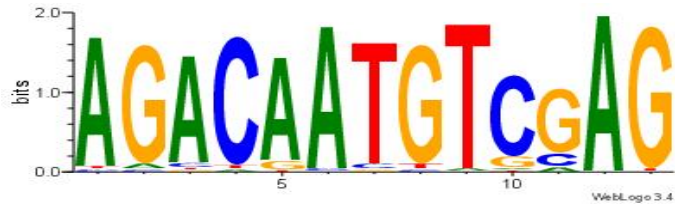


Best Matches for Motif ID 98 (Highest to Lowest)

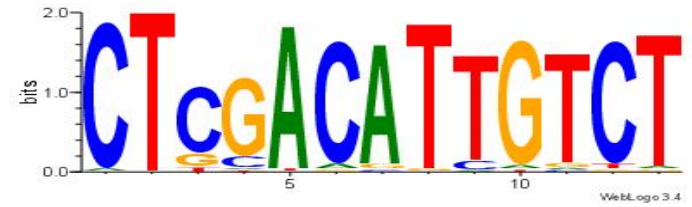
Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0

Alignment:
 AGACAATGTCGAG
 AGACAATGTCGAG

Original motif Consensus sequence: AGACAATGTCGAG

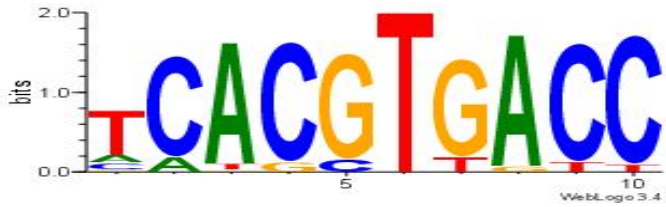


Reverse complement motif Consensus sequence: CTCGACATTGTCT

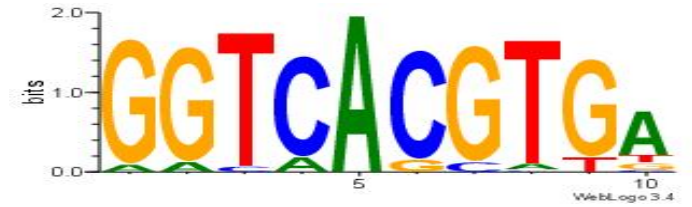


Dataset #: 2 Motif ID: 99 Motif name: Motif 99

Original motif Consensus sequence: TCACGTGACC



Reverse complement motif Consensus sequence: GGTCACGTGA



Best Matches for Motif ID 99 (Highest to Lowest)

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

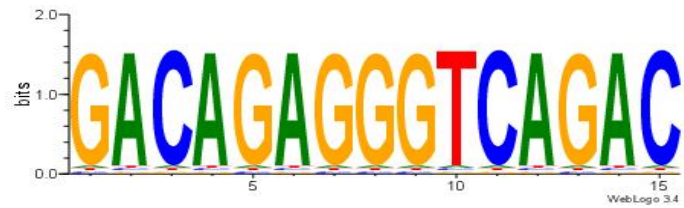
Alignment:

Alignment:

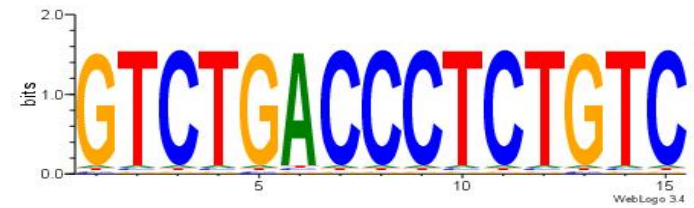
GACAGAGGGTCAGAC

GACAGAGGGTCAGAC

Original motif Consensus sequence: GACAGAGGGTCAGAC

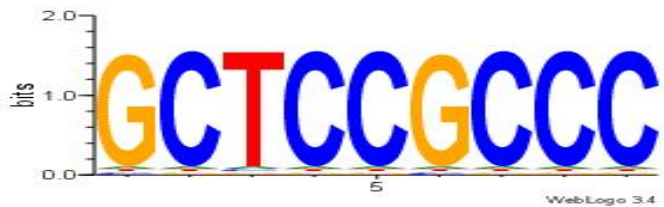


Reverse complement motif Consensus sequence: GTCTGACCCTCTGTC

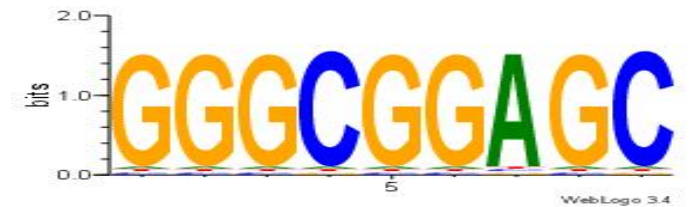


Dataset #: 2 Motif ID: 101 Motif name: Motif 101

Original motif Consensus sequence: GCTCCGCC



Reverse complement motif Consensus sequence: GGGCGGAGC



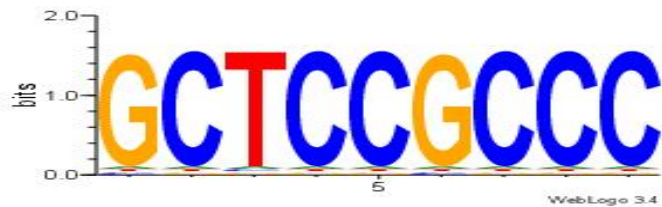
Best Matches for Motif ID 101 (Highest to Lowest)

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

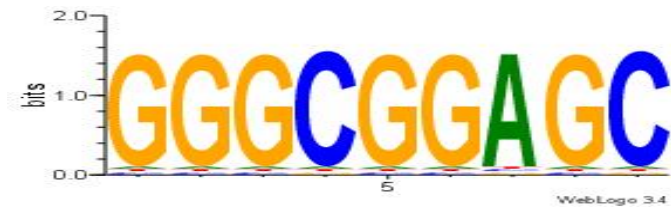
Number of overlap: 9
Similarity score: 0

Alignment:
GCTCCGCCC
GCTCCGCCC

Original motif Consensus sequence: GCTCCGCCC

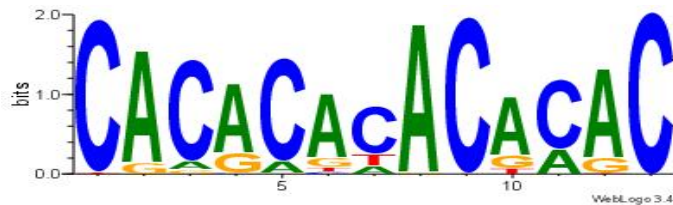


Reverse complement motif Consensus sequence: GGGCGGAGC

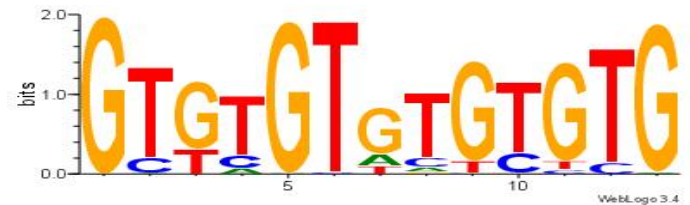


Dataset #: 2 Motif ID: 102 Motif name: Motif 102

Original motif Consensus sequence: CACACACACAC



Reverse complement motif Consensus sequence: GTGTGTGTGTG



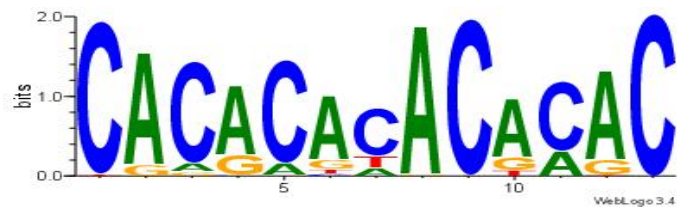
Best Matches for Motif ID 102 (Highest to Lowest)

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

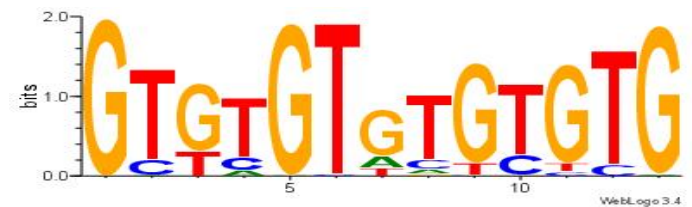
Direction: Backward
 Position number: 1
 Number of overlap: 13
 Similarity score: 0

Alignment:
 CACACACACACAC
 CACACACACACAC

Original motif Consensus sequence: CACACACACACAC

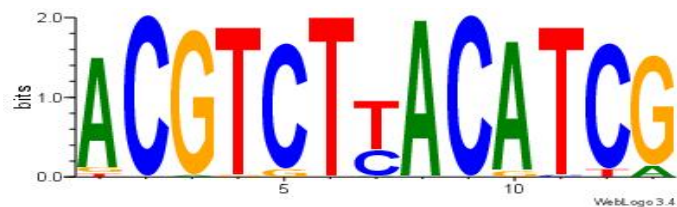


Reverse complement motif Consensus sequence: GTGTGTGTGTGTG

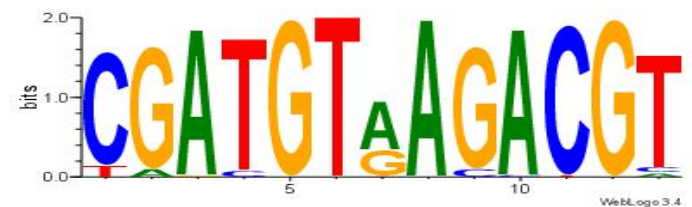


Dataset #: 2 Motif ID: 103 Motif name: Motif 103

Original motif Consensus sequence: ACGTCTYACATCG



Reverse complement motif Consensus sequence: CGATGTMAGACGT



Best Matches for Motif ID 103 (Highest to Lowest)

Dataset #: 1
 Motif ID: 46
 Motif name: Motif 46

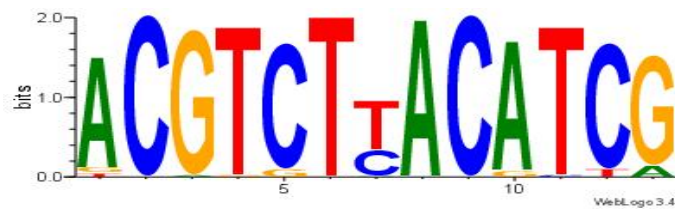
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0

Alignment:

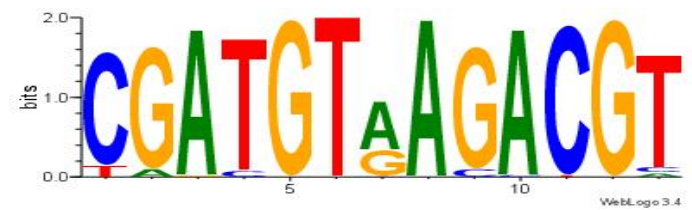
ACGTCTYACATCG

ACGTCTYACATCG

Original motif Consensus sequence: ACGTCTYACATCG

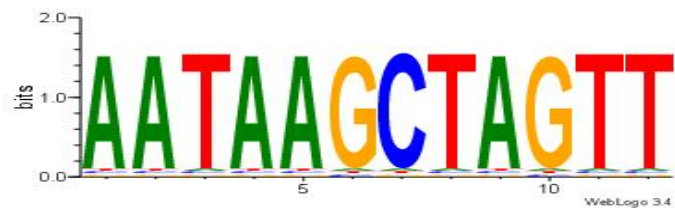


Reverse complement motif Consensus sequence: CGATGTMAGACGT

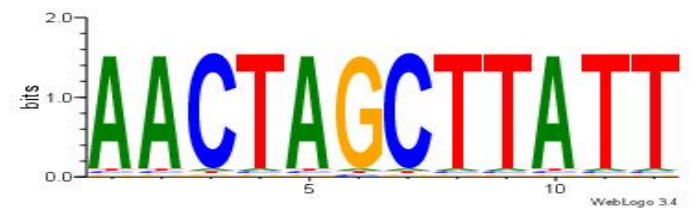


Dataset #: 2 Motif ID: 104 Motif name: Motif 104

Original motif Consensus sequence: AATAAGCTAGTT



Reverse complement motif Consensus sequence: AACTAGCTTATT



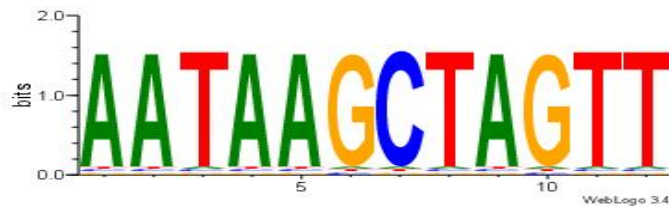
Best Matches for Motif ID 104 (Highest to Lowest)

Dataset #: 1

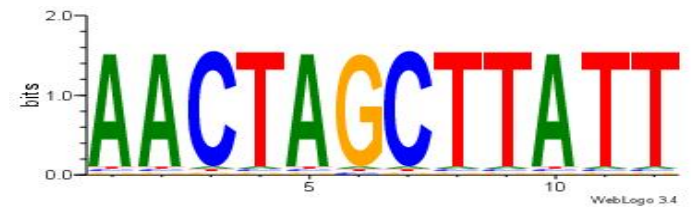
Motif ID: 47
 Motif name: Motif 47
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Backward
 Position number: 1
 Number of overlap: 12
 Similarity score: 0

Alignment:
 AATAAGCTAGTT
 AATAAGCTAGTT

Original motif Consensus sequence: AATAAGCTAGTT



Reverse complement motif Consensus sequence: AACTAGCTTATT



Dataset #: 2 Motif ID: 105 Motif name: Motif 105

Original motif Consensus sequence: CAGACRAC



Reverse complement motif Consensus sequence: GTKGTCTG



Best Matches for Motif ID 105 (Highest to Lowest)

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 8
Similarity score: 0

Alignment:
CAGACRAC
CAGACRAC

Original motif Consensus sequence: CAGACRAC



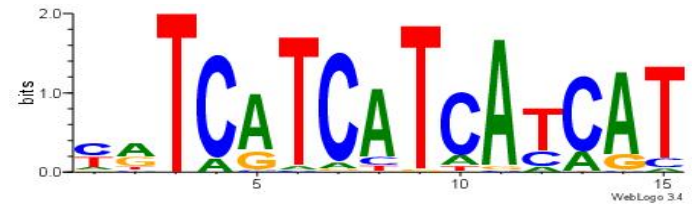
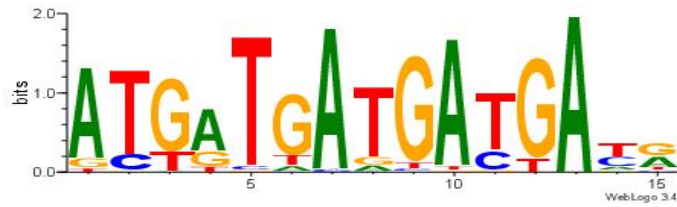
Reverse complement motif Consensus sequence: GTKGTCTG



Dataset #: 2 Motif ID: 106 Motif name: Motif 106

Original motif Consensus sequence: ATGATGATGATGAYR

Reverse complement motif Consensus sequence: MMTCATCATCATC

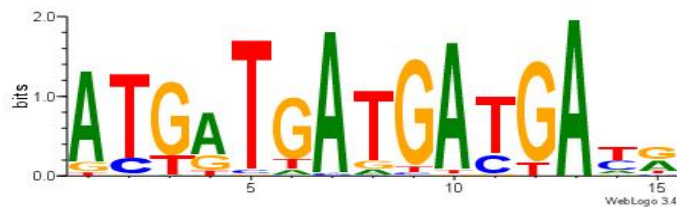


Best Matches for Motif ID 106 (Highest to Lowest)

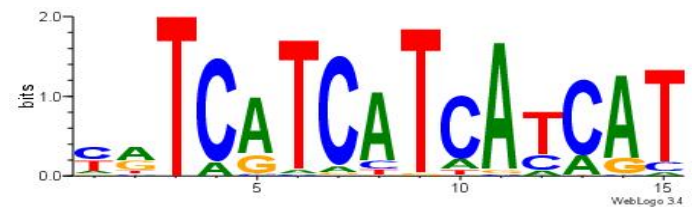
Dataset #: 1
 Motif ID: 49
 Motif name: Motif 49
 Matching format of first motif: Original Motif
 Matching format of second motif: Original Motif
 Direction: Forward
 Position number: 1
 Number of overlap: 15
 Similarity score: 0

Alignment:
 ATGATGATGATGAYR
 ATGATGATGATGAYR

Original motif Consensus sequence: ATGATGATGATGAYR

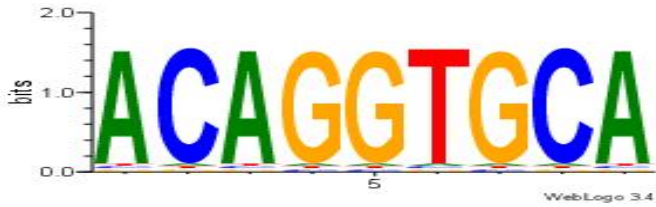


Reverse complement motif Consensus sequence: MMTCATCATCATC

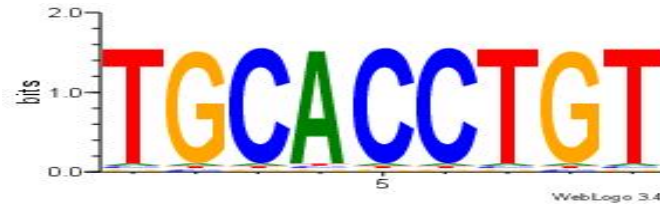


Dataset #: 2 Motif ID: 107 Motif name: Motif 107

Original motif Consensus sequence: ACAGGTGCA



Reverse complement motif Consensus sequence: TGCACCTGT

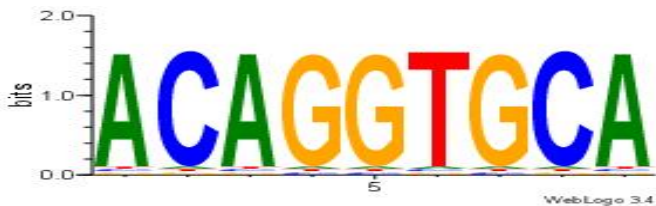


Best Matches for Motif ID 107 (Highest to Lowest)

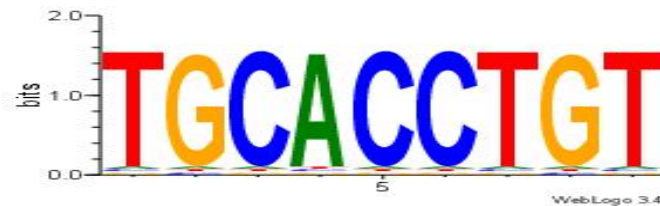
Dataset #:	1
Motif ID:	50
Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:
ACAGGTGCA
ACAGGTGCA

Original motif Consensus sequence: ACAGGTGCA

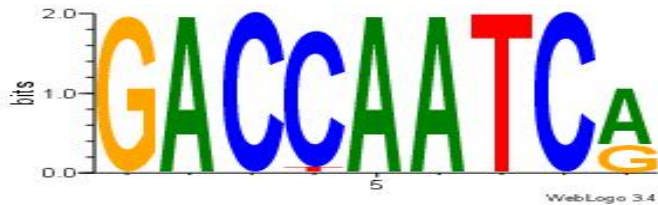


Reverse complement motif Consensus sequence: TGCACCTGT



Dataset #: 2 Motif ID: 108 Motif name: Motif 108

Original motif Consensus sequence: GACCAATCA



Reverse complement motif Consensus sequence: TGATTGGTC

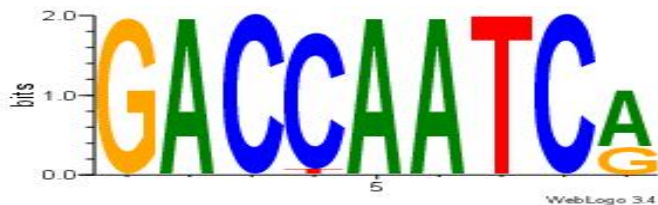


Best Matches for Motif ID 108 (Highest to Lowest)

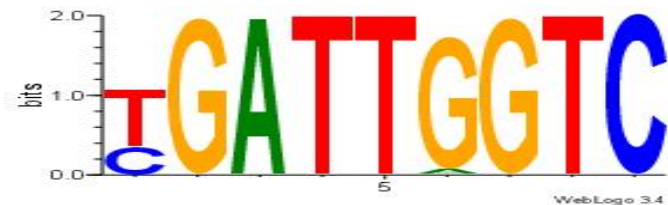
Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0

Alignment:
GACCAATCA
GACCAATCA

Original motif Consensus sequence: GACCAATCA

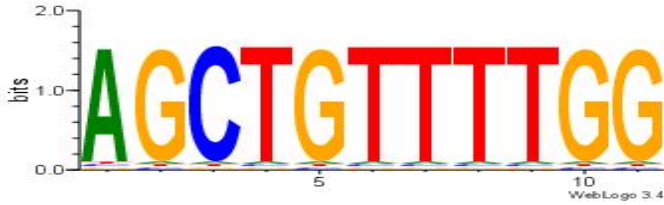


Reverse complement motif Consensus sequence: TGATTGGTC



Dataset #: 2 Motif ID: 109 Motif name: Motif 109

Original motif Consensus sequence: AGCTGTTTTGG



Reverse complement motif Consensus sequence: CCAAACAGCT



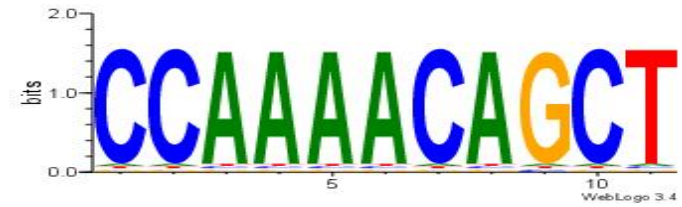
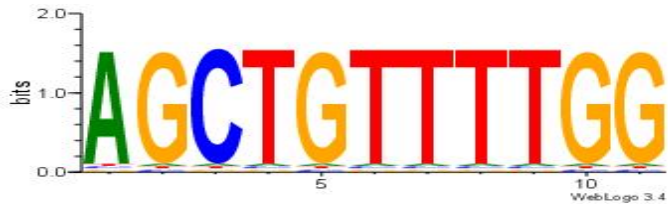
Best Matches for Motif ID 109 (Highest to Lowest)

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0

Alignment:
AGCTGTTTTGG
AGCTGTTTTGG

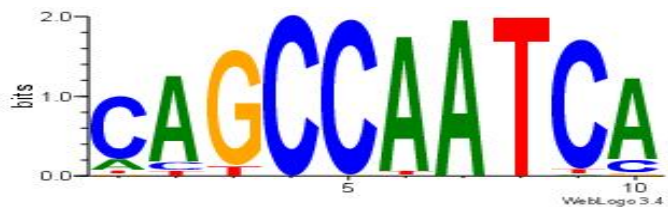
Original motif Consensus sequence: AGCTGTTTTGG

Reverse complement motif Consensus sequence: CCAAACAGCT

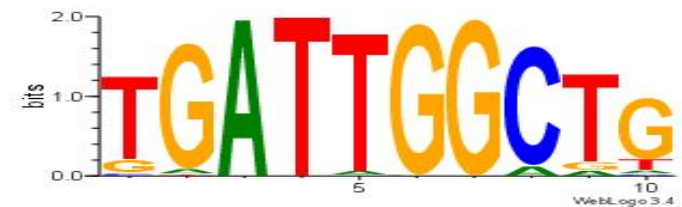


Dataset #: 2 Motif ID: 110 Motif name: Motif 110

Original motif Consensus sequence: CAGCCAATCA



Reverse complement motif Consensus sequence: TGATTGGCTG

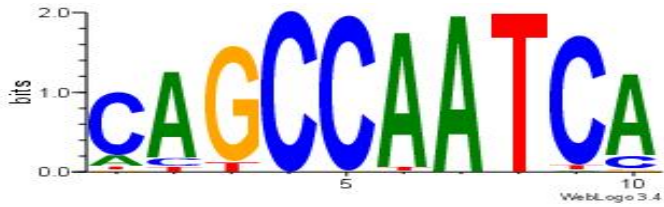


Best Matches for Motif ID 110 (Highest to Lowest)

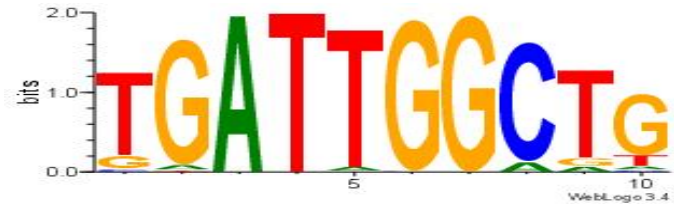
Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0

Alignment:
 CAGCCAATCA
 CAGCCAATCA

Original motif Consensus sequence: CAGCCAATCA

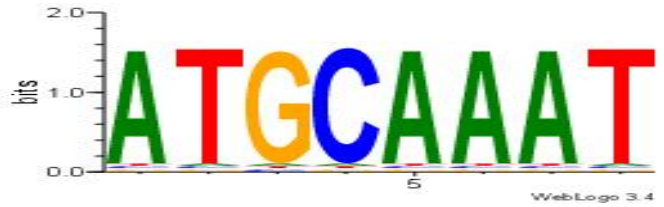


Reverse complement motif Consensus sequence: TGATTGGCTG

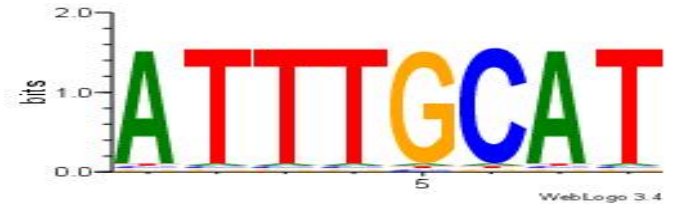


Dataset #: 2 Motif ID: 111 Motif name: Motif 111

Original motif Consensus sequence: ATGCAAAT



Reverse complement motif Consensus sequence: ATTTGCAT



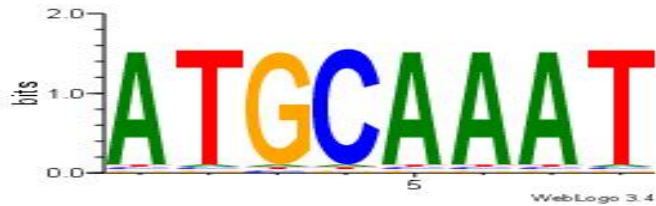
Best Matches for Motif ID 111 (Highest to Lowest)

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0

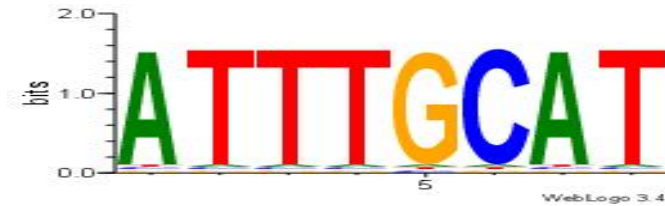
Alignment:

ATGCAAAT
ATGCAAAT

Original motif Consensus sequence: ATGCAAAT

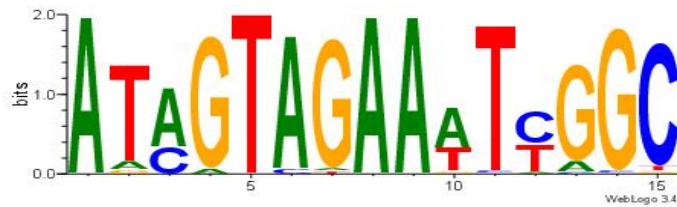


Reverse complement motif Consensus sequence: ATTTGCAT

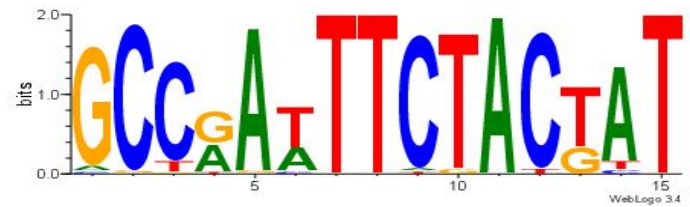


Dataset #: 2 Motif ID: 112 Motif name: Motif 112

Original motif Consensus sequence: ATAGTAGAAWTGGC



Reverse complement motif Consensus sequence: GCCKAWTTCTACT



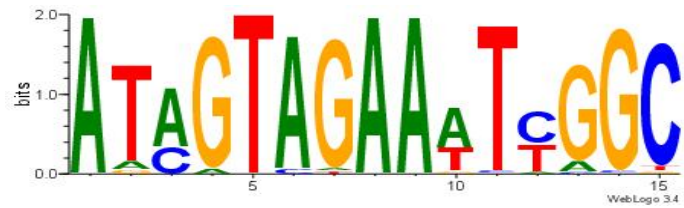
Best Matches for Motif ID 112 (Highest to Lowest)

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0

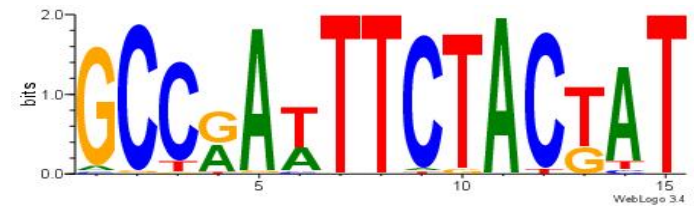
Alignment:

ATAGTAGAAWTYGGC
ATAGTAGAAWTYGGC

Original motif Consensus sequence: ATAGTAGAAWTYGGC

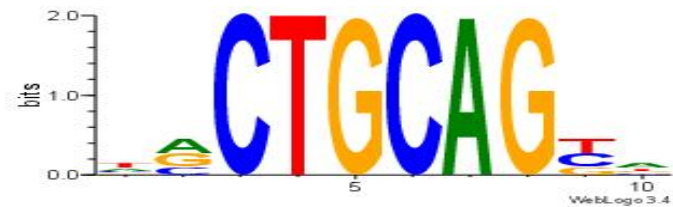


Reverse complement motif Consensus sequence: GCCKAWTTCTACT



Dataset #: 2 Motif ID: 113 Motif name: Motif 113

Original motif Consensus sequence: HRCTGCAGYD



Reverse complement motif Consensus sequence: DMCTGCAGKH



Best Matches for Motif ID 113 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0

Alignment:

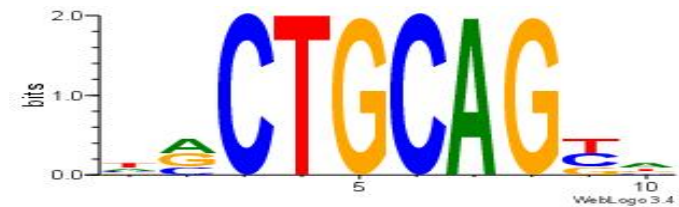
HRCTGCAGYD

HRCTGCAGYD

Original motif Consensus sequence: HRCTGCAGYD

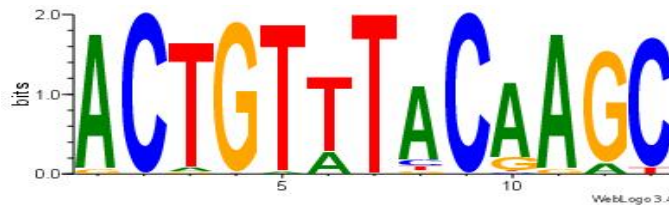


Reverse complement motif Consensus sequence: DMCTGCAGKH



Dataset #: 2 Motif ID: 114 Motif name: Motif 114

Original motif Consensus sequence: ACTGTTACAAGC



Reverse complement motif Consensus sequence: GCTTGTAACAGT



Best Matches for Motif ID 114 (Highest to Lowest)

Dataset #: 1
Motif ID: 57
Motif name: Motif 57
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif

Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0

Alignment:

ACTGTTTACAAGC

ACTGTTTACAAGC

Original motif Consensus sequence: ACTGTTTACAAGC



Reverse complement motif Consensus sequence: GCTTGTAACAGT



Results created by MOTIFSIM on 11-21-2023 16:21:43

Runtime: 3497.06 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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