



MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	5
Number of top significant motifs:	5
Number of best matches:	5
Similarity cutoff \geq	0.75
Matching motif database:	Jaspar Urochordates
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
DREME_DM230.txt	1	1
MEME_DM230.txt	20	2
PScanChIP_DM230.txt	14	3
RSAT_peak-motifs_DM230.txt	10	4
W-ChIPMotifs_DM230.txt	11	5

RESULTS

Best Matches in Database for Each Motif (Highest to Lowest)

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

Original motif

Consensus sequence: GGCGGGGC



Reverse complement motif

Consensus sequence: GCCCGGCC



Best Matches for Motif ID 1 (Highest to Lowest)

Motif ID:	MA0118.1
Motif name:	Macho-1
Taxon:	Urochordates
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0156486

Alignment:

VMBCYCCCV

GCCCGGCC-

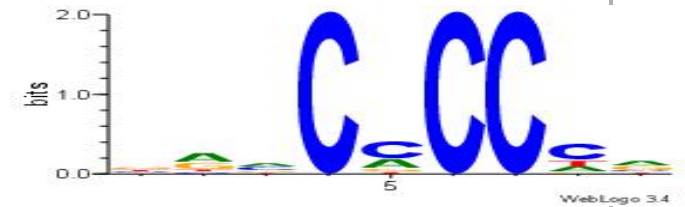
Original motif

Consensus sequence: BGGGKGBYV



Reverse complement motif

Consensus sequence: VMBCYCCCV



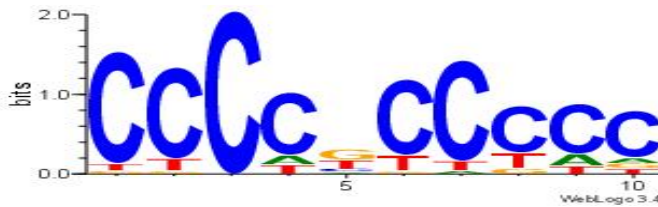
Dataset #: 3

Motif ID: 24

Motif name: SP1

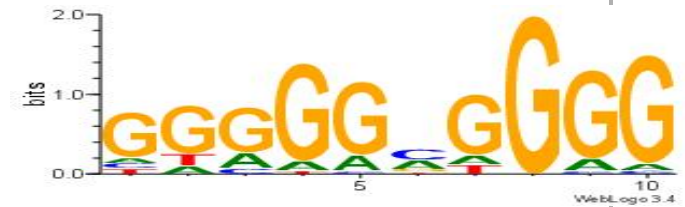
Original motif

Consensus sequence: CCCCKCCCC



Reverse complement motif

Consensus sequence: GGGGGYGGGG



Best Matches for Motif ID 24 (Highest to Lowest)

Motif ID:	MA0118.1
Motif name:	Macho-1
Taxon:	Urochordates
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.053545

Alignment:

VMBCYCCCV-
CCCCKCCCC

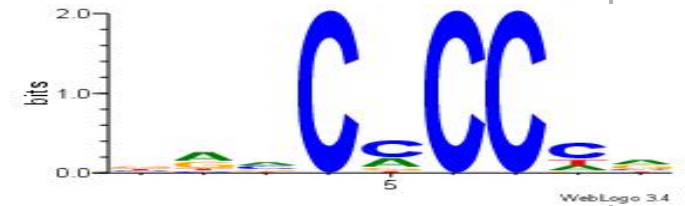
Original motif

Consensus sequence: BGGGKGBYV



Reverse complement motif

Consensus sequence: VMBCYCCCV



Dataset #: 3

Motif ID: 27

Motif name: Klf4

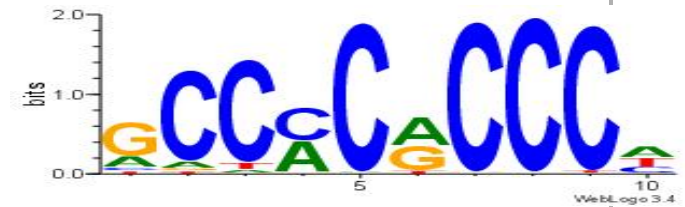
Original motif

Consensus sequence: DGGGYGKGGC



Reverse complement motif

Consensus sequence: GCCYCMCCCD



Best Matches for Motif ID 27 (Highest to Lowest)

Motif ID:	MA0118.1
Motif name:	Macho-1
Taxon:	Urochordates
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

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

Alignment:
-VMBCYCCCV
GCCYCMCCCD

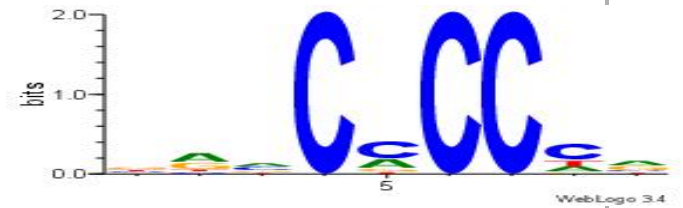
Original motif

Consensus sequence: BGGGKGBYV



Reverse complement motif

Consensus sequence: VMBCYCCCV



Results created by MOTIFSIM on 11-21-2023 10:01:18

Runtime: 65.8356 seconds

MOTIFSIM is written by Ngoc Tam L. Tran

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