**README**

----dev env

MATLAB R2018a

----runtime env

libsvm-3.22

This package of codes private .

----usage

1. Set up the MATLAB to a correct JDK environment on the windows system.

2. Open the MATLAB command window.

3. Go to the dir where you place all the binaries.

4. Note that "predictor.m" is used to predict hotspots and coldspots.

5. Type "run" to open the txt file, where you saved the DNA sequences in FASTA format.

6. Read the output in command window.

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**PS：**

（1）Select the ‘’PREDITOR’’ file in the MATLAB environment, than choose the file that need to be tested (The sequence is saved in the vents TXT file, the sequence is in form of fasta);

（2）Select the ‘’Testsamples.txt’’, the MATLAB work page will display the following results:

>P1

GGGCAGGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGC Hotspot

>P1

GGCAGGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCT Coldspot

>P1

GCAGGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTG Hotspot

>P1

CAGGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGG Coldspot

>P1 AGGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGGA Coldspot

>P1

GGGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGGAA Coldspot

>P1

GGACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGGAAG Hotspot

>P1

GACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGGAAGA Coldspot

>P1

ACTTCAGTTTCCGCCACAACAGGTATTCGCATCAAAAAAGAGACCTCGGACTACACGATCCCAAGATCTGCAAGTCATACCTTGTTGGCGAGTGCCCCTACGACCTGTTTCAGGGCACCAAGCTGGAAGAG Hotspot

>P2

TGCCTACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGC Coldspot

>P2

GCCTACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCC Hotspot

>P2

CCTACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCT Coldspot

>P2

CTACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTG Coldspot

>P2

TACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGT Hotspot

>P2

ACTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTG Coldspot

>P2

CTAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTGC Hotspot

>P2

TAAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTGCG Coldspot

>P2

AAGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTGCGC Hotspot

>P2

AGAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTGCGCA Hotspot

>P2

GAAACCTCAGCCTGTCCCATTGGCCGCTCAAAAATTGGACAGCAAGTACGACACAGATGTGGAACAGCCGCAGTCAATCCAATCAGTACCTTCGGAAGAGGTAGCTTCAGCTTCTTCTGGCCTGTGCGCAA Hotspot