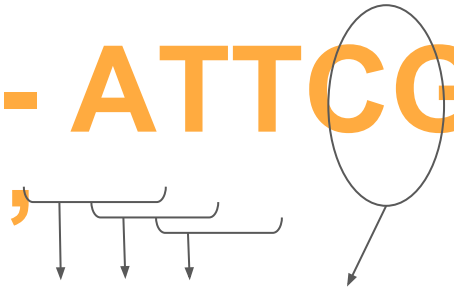
5’ - ATTCGA

- 3’

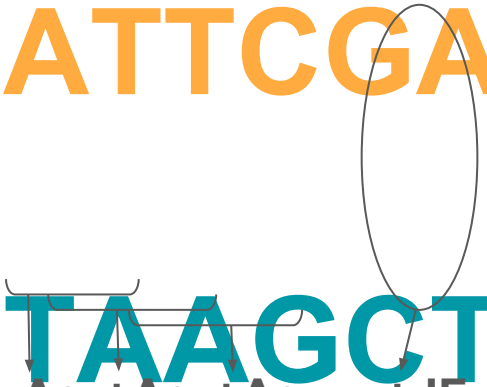


$\Delta G = \Delta g_1 + \Delta g_2 + \Delta g_3 \ldots$

3’- TAAGCT

+ IF

5’ - ATTCGA -
3’



3’ - TAAGCT -
5’

$\Delta G = \Delta g_1 + \Delta g_2 + \Delta g_3 \ldots + IF$

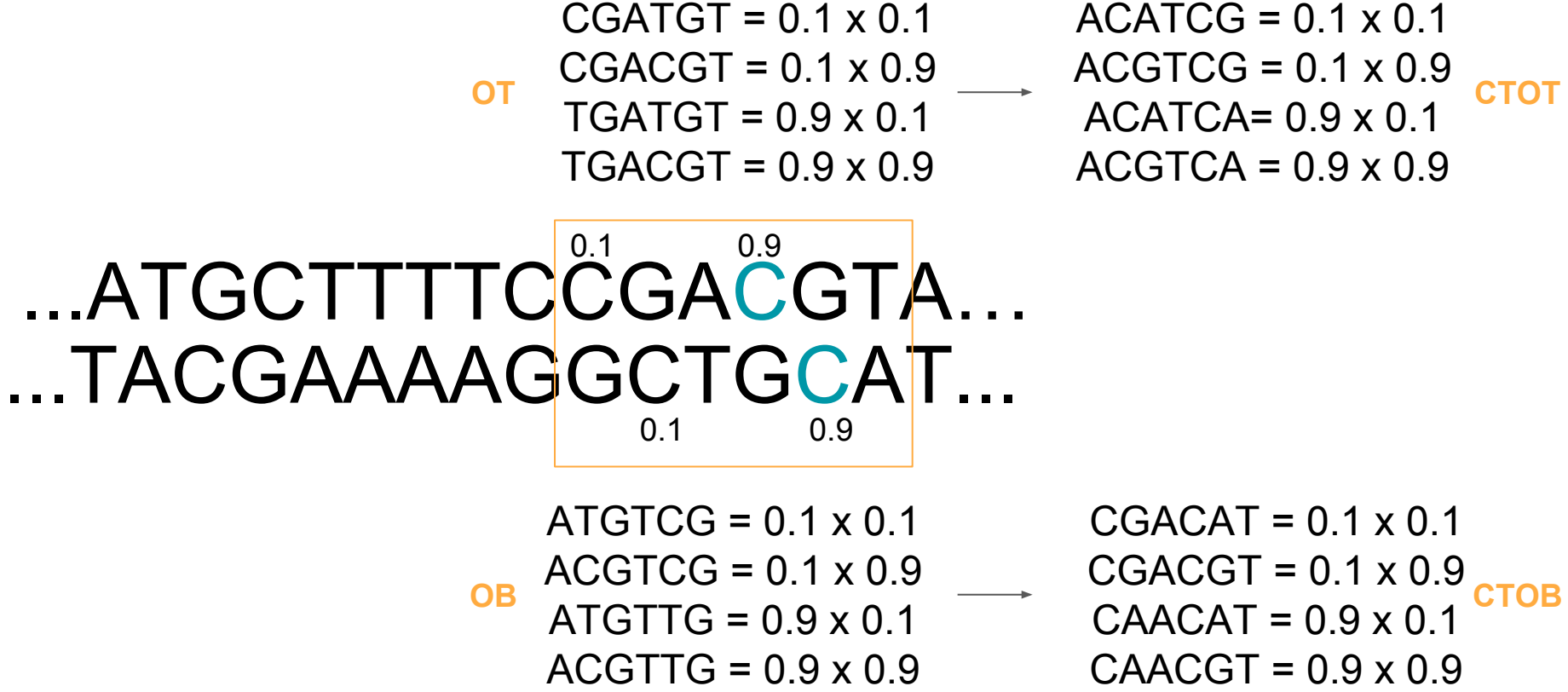

0.1
0.9
...ATGCTTTTCCGACGTA...
...TACGAAAAGGCTGCAT...
0.1
0.9

OT

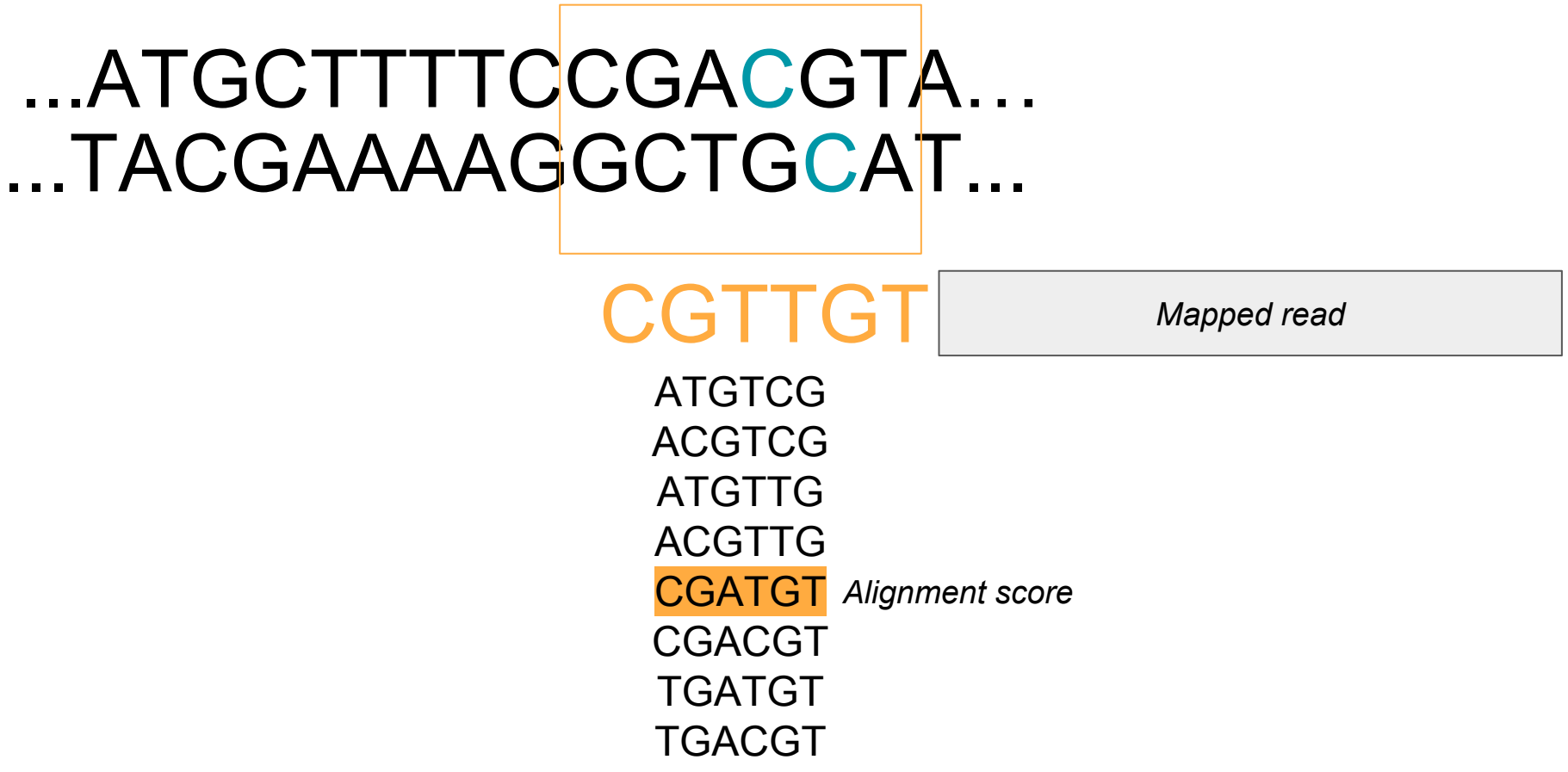
CGATGT = 0.1 x 0.1
CGACGT = 0.1 x 0.9
TGATGT = 0.9 x 0.1
TGACGT = 0.9 x 0.9

OB

ATGTCG = 0.1 x 0.1
ACGTCG = 0.1 x 0.9
ATGTTG = 0.9 x 0.1
ACGTTG = 0.9 x 0.9


OT
CGATGT = 0.1 x 0.1
CGACGT = 0.1 x 0.9
TGATGT = 0.9 x 0.1
TGACGT = 0.9 x 0.9
ACATCG = 0.1 x 0.1
ACGTCG = 0.1 x 0.9
ACATCA= 0.9 x 0.1
ACGTCA = 0.9 x 0.9
CTOT
0.1
0.9
...ATGCTTTTCCGACGTA...
...TACGAAAAGGCTGCAT...
0.1
0.9
OB
ATGTCG = 0.1 x 0.1
ACGTCG = 0.1 x 0.9
ATGTTG = 0.9 x 0.1
ACGTTG = 0.9 x 0.9
CGACAT = 0.1 x 0.1
CGACGT = 0.1 x 0.9
CAACAT = 0.9 x 0.1
CAACGT = 0.9 x 0.9
CTOB


...ATGCTTTTCCGACGTA...
...TACGAAAAGGCTGCAT...
CGTTGT
Mapped read


...ATGCTTTTCCGACGTA...
...TACGAAAAGGCTGCAT...
CGTTGT
Mapped read
ATGTCG
ACGTCG
ATGTTG
ACGTTG
CGATGT
Alignment score
CGACGT
TGATGT
TGACGT