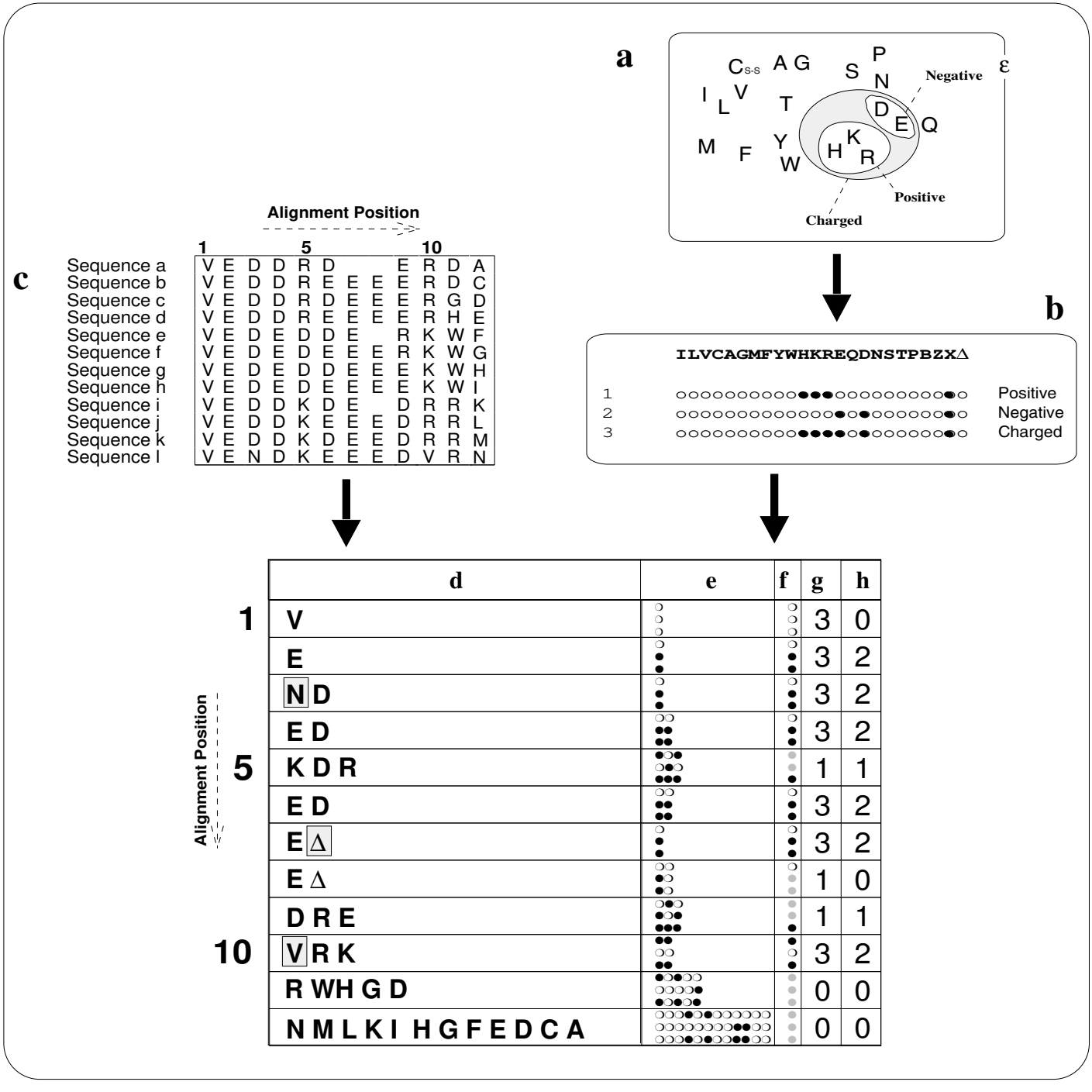
a
Negative
Positive
Charged
b
ILVCAGMFYWHKREQDNSTPBZXΔ
1
2
3
Positive
Negative
Charged
c
Alignment Position
Sequence a V E D D R D E R D A
Sequence b V E D D R E E E R D C
Sequence c V E D D R D E E R G D
Sequence d V E D D R E E E R H E
Sequence e V E D E D D E R K W F
Sequence f V E D E D E E R K W G
Sequence g V E D E D D E E K W H
Sequence h V E D E D E E E K W I
Sequence i V E D D K D E D R R K
Sequence j V E D D K E E E D R R L
Sequence k V E D D K D E E D R R M
Sequence l V E N D K E E E D V R N
d
e
f
g
h
1 V 3 0
E 3 2
N D 3 2
E D 3 2
5 K D R 1 1
E D 3 2
E Δ 3 2
E Δ 1 0
D R E 1 1
10 V R K 3 2
R WH G D 0 0
N M L K I H G F E D C A 0 0
Alignment Position

Figure 2