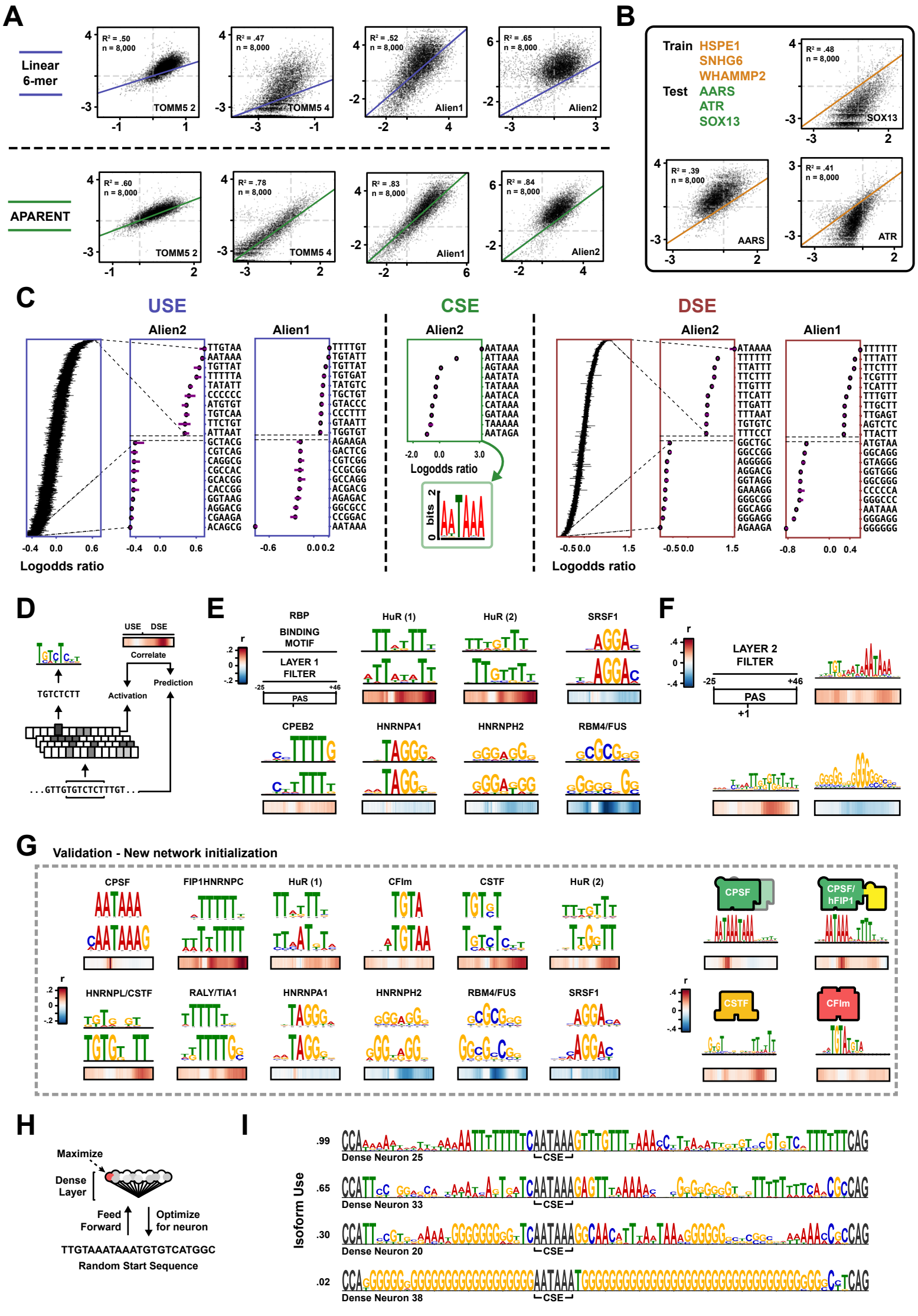
A
Linear 6-mer
APARENT
TOMM5 2
TOMM5 4
Alien1
Alien2
B
Train HSPE1 SNHG6 WHAMMP2
Test AARS ATR SOX13
SOX13
AARS
ATR
C
USE
CSE
DSE
Logodds ratio
D
USE DSE
Correlate
Prediction
Activation
TGTCTCTT
...GTTGTGTCTCTTTGT...
E
RBP
BINDING MOTIF
LAYER 1 FILTER
PAS
HuR (1)
HuR (2)
SRSF1
CPEB2
HNRNPA1
HNRNPH2
RBM4/FUS
F
LAYER 2 FILTER
PAS
+1
G
Validation - New network initialization
CPSF
FIP1HNRNPC
HuR (1)
CFIm
CSTF
HuR (2)
HNRNPL/CSTF
RALY/TIA1
HNRNPA1
HNRNPH2
RBM4/FUS
SRSF1
CPSF
CPSF/ hFIP1
CSTF
CFIm
H
Maximize
Dense Layer
Feed Forward
Optimize for neuron
TTGTAAATAAATGTGTCATGGC
Random Start Sequence
I
Isoform Use
.99
Dense Neuron 25
.65
Dense Neuron 33
.30
Dense Neuron 20
.02
Dense Neuron 38
CSE