

A A2→M2

Training: Kainate			Test: MCAO	
BN score	q-value	Feature	BN score	q-value
0.254871	0.011	AP1F	0.824317	0.001
0.0000464739	1.	AP1F HOXC	0.17675	0.006
0.0000259144	1.	AP1F PIT1	0.218585	0.006
0.000014982	1.	AP1F SATB	0.147317	0.009
1.31092×10^{-7}	1.	AP1F HNF1_HOXC	2.10775	<0.001
7.56606×10^{-12}	1.	AP1F E4FF HNF1_HOXC	0.0795164	0.021
2.85003×10^{-12}	1.	AP1F HNF1_SNAP PIT1	0.104155	0.014

B M2→A2

Training: MCAO			Test: Kainate	
BN score	q-value	module_set	BN score	q-value
2.10775	<0.001	AP1F HNF1_HOXC	1.31092×10^{-7}	1.
0.824317	0.001	AP1F	0.254871	0.011
0.218585	0.006	AP1F PIT1	0.0000259144	1.
0.17675	0.006	AP1F HOXC	0.0000464739	1.
0.147317	0.009	AP1F SATB	0.000014982	1.
0.104155	0.014	AP1F HNF1_SNAP PIT1	2.85003×10^{-12}	1.
0.0795164	0.021	AP1F E4FF HNF1_HOXC	7.56606×10^{-12}	1.
0.0457055	0.042	AP1F PIT1 RREB	$<2.85003 \times 10^{-12}$	1.
0.0417503	0.049	AP1F_AP1R	$<2.85003 \times 10^{-12}$	1.
0.0410351	0.049	SATB	$<2.85003 \times 10^{-12}$	1.

C A3→M3

Training: Kainate			Test: MCAO	
BN score	q-value	Feature	BN score	q-value
4.31078×10^8	<0.001	EGRF LHXF	0.229441	0.009
4.17003×10^8	<0.001	LHXF ZBPF	0.152447	0.013
1.5724×10^8	<0.001	EGRF_ZBPF LHXF	0.00195931	0.732
1.25018×10^8	<0.001	LHXF ZF5F	0.0788775	0.027
1.07687×10^8	<0.001	EGRF_ZF5F LHXF	0.000823212	0.985
9.51965×10^7	<0.001	EBOX LHXF	0.0130215	0.174
3.30419×10^7	<0.001	HOXF_OCT1 ZBPF	0.0000592705	1.
2.96533×10^7	<0.001	E2FF_EGRF LHXF	7.85364×10^{-6}	1.
2.64311×10^7	<0.001	AHRR LHXF	0.294314	0.007
2.38358×10^7	<0.001	AHRR CLOX	0.0062272	0.343

D M3→A3

Training: MCAO			Test: Kainate	
BN score	q-value	Feature	BN score	q-value
5140.02	<0.001	AP1R	0.673304	0.003
165.356	<0.001	AP1R PARF	432.564	<0.001
161.999	<0.001	PARF	448.265	<0.001
124.941	<0.001	CREB	22946.	<0.001
88.2873	<0.001	AP1R MEF2	0.0305232	0.09
64.3365	<0.001	AHRR AP1R	18.2066	<0.001
55.6683	<0.001	AP1R ZF5F	265.177	<0.001
44.5959	<0.001	AP1R EGRF	1.83339	0.001
37.2971	<0.001	AHRR	20839.1	<0.001
33.5465	<0.001	AP1R E4FF	0.12286	0.026

E Conditional probability table for {AP1F, SATB}

motifs		sign of M2		number of genes
SATB	AP1F	-	+	
0	1	0.38	0.62	287
1	0	0.68	0.32	123
0	0	0.55	0.45	753
1	1	0.57	0.43	105
All		0.52	0.48	1268

F Conditional probability table for {EGRF, LHXF}

motifs		sign of A3		number of genes
EGRF	LHXF	-	+	
0	1	0.5	0.5	96
1	0	0.48	0.52	381
0	0	0.57	0.43	328
1	1	0.21	0.79	234
All		0.45	0.55	1039