Figure S1A

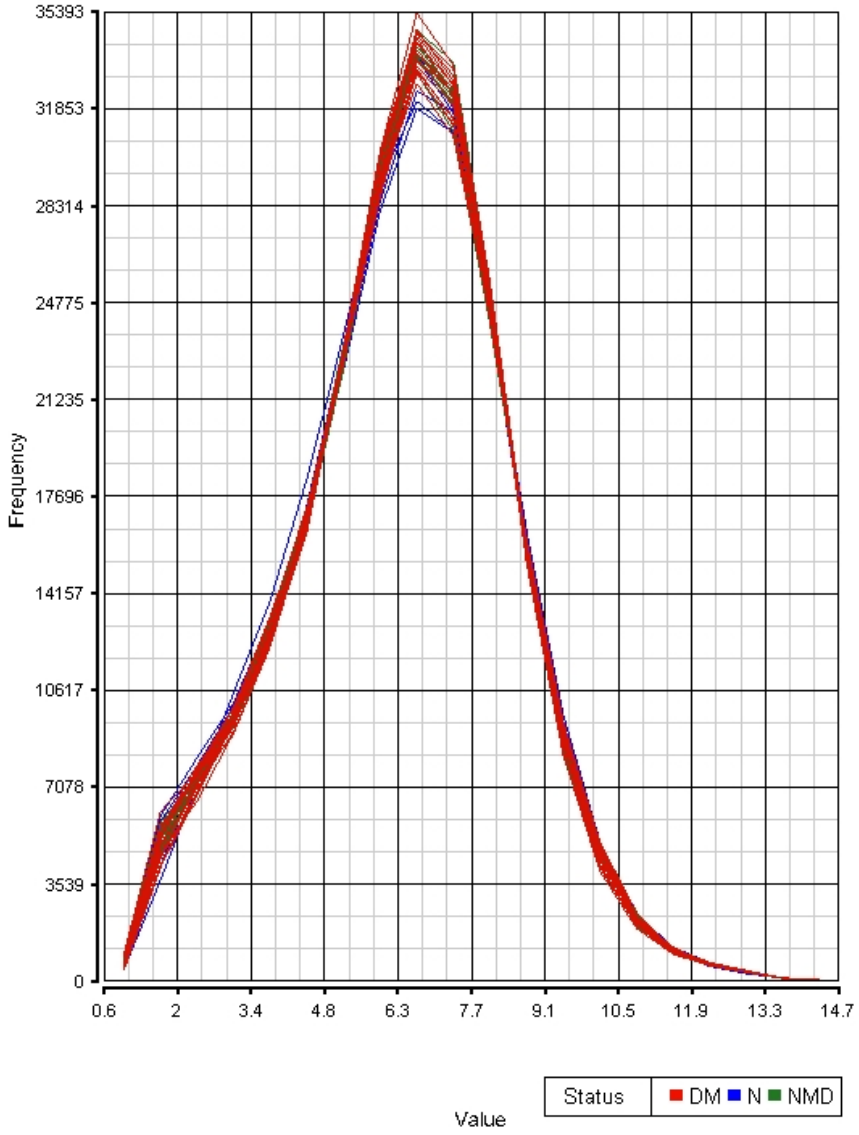
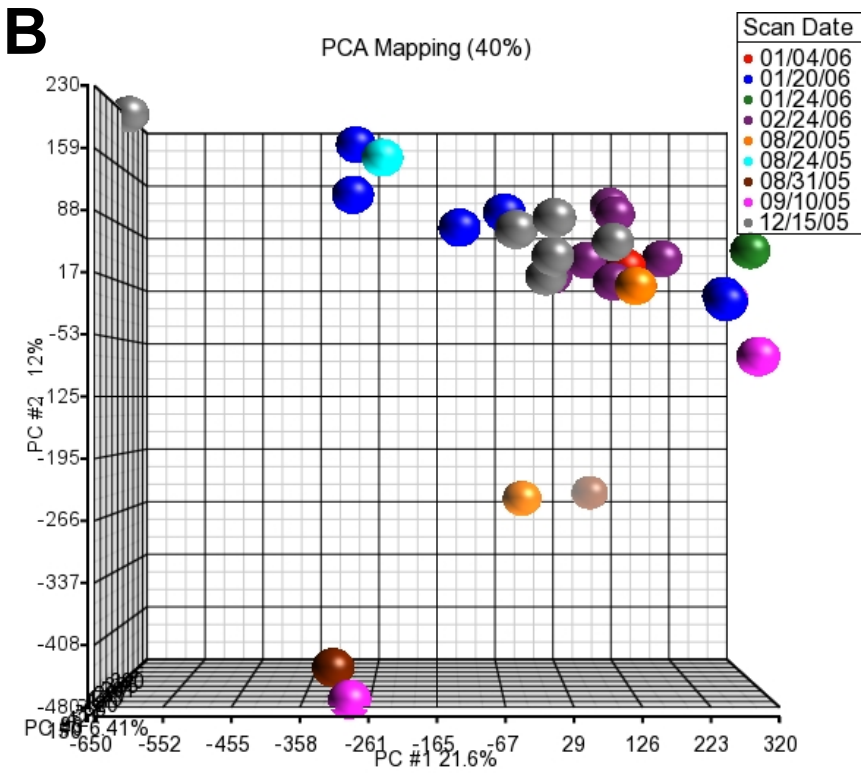

35393
31853
28314
24775
21235
17696
14157
10617
7078
3539
0
Frequency
0.6
2
3.4
4.8
6.3
7.7
9.1
10.5
11.9
13.3
14.7
Value
Status
DM
N
NMD

Figure S1


B
PCA Mapping (40%)
Scan Date
01/04/06
01/20/06
01/24/06
02/24/06
08/20/05
08/24/05
08/31/05
09/10/05
12/15/05
PC #2 12%
PC #1 21.6%

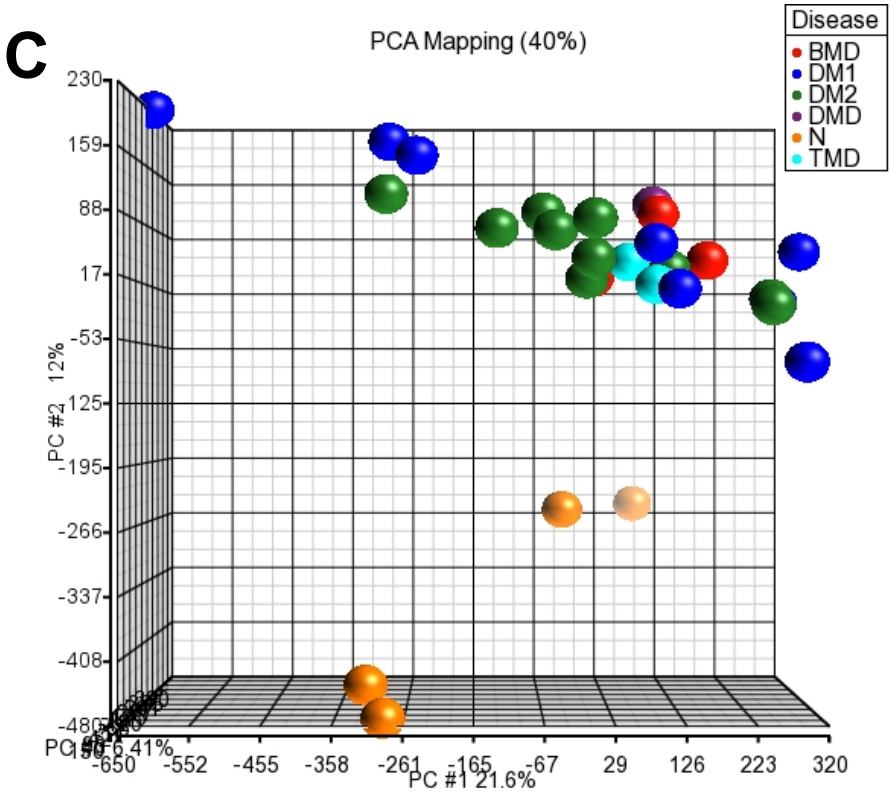

C
PCA Mapping (40%)
Disease
BMD
DM1
DM2
DMD
N
TMD
PC #2 12%
PC #1 21.6%

Figure S1D

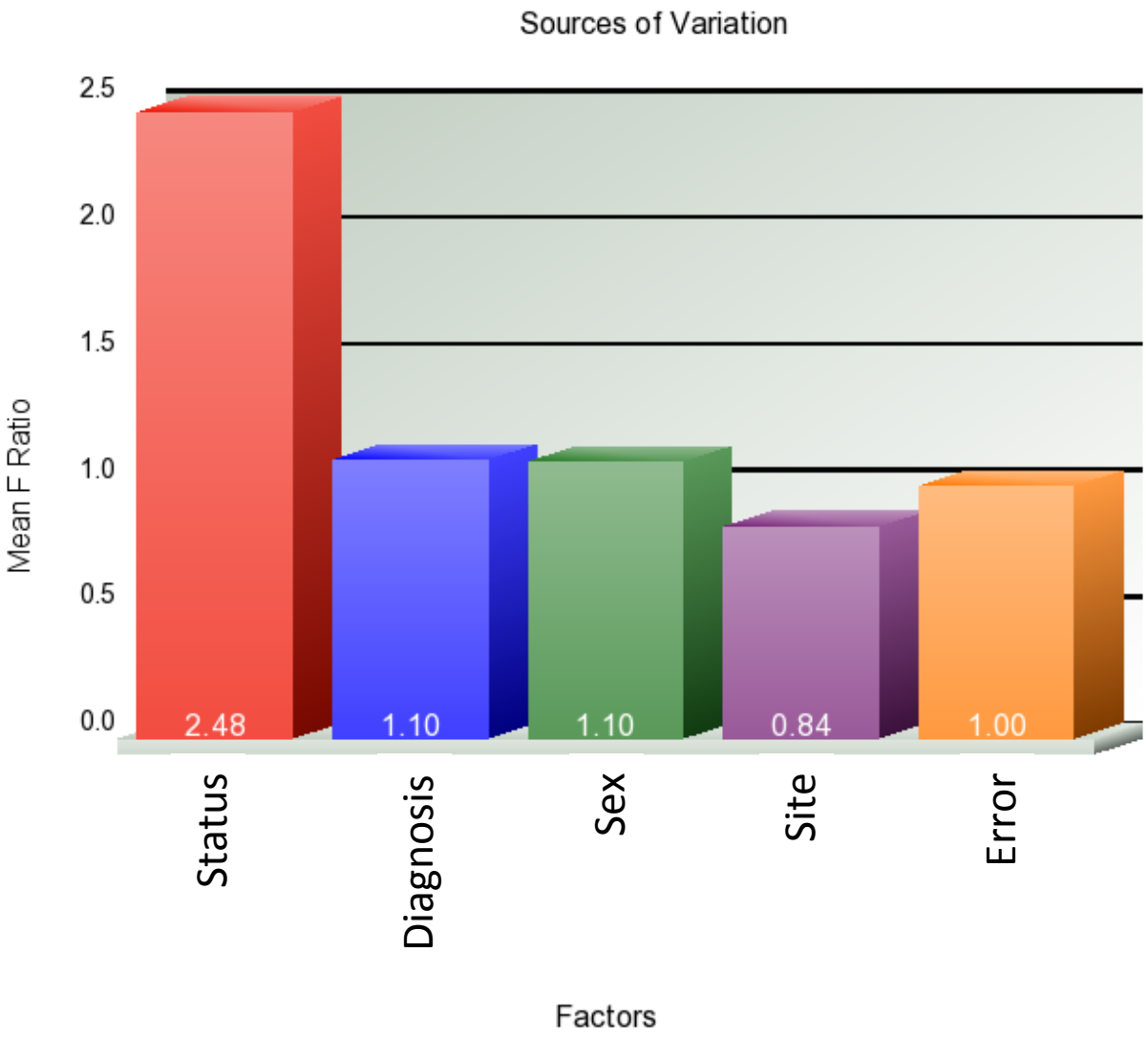

Sources of Variation
Mean F Ratio
2.5
2.0
1.5
1.0
0.5
0.0
2.48
1.10
1.10
0.84
1.00
Status
Diagnosis
Sex
Site
Error
Factors

Figure S1E

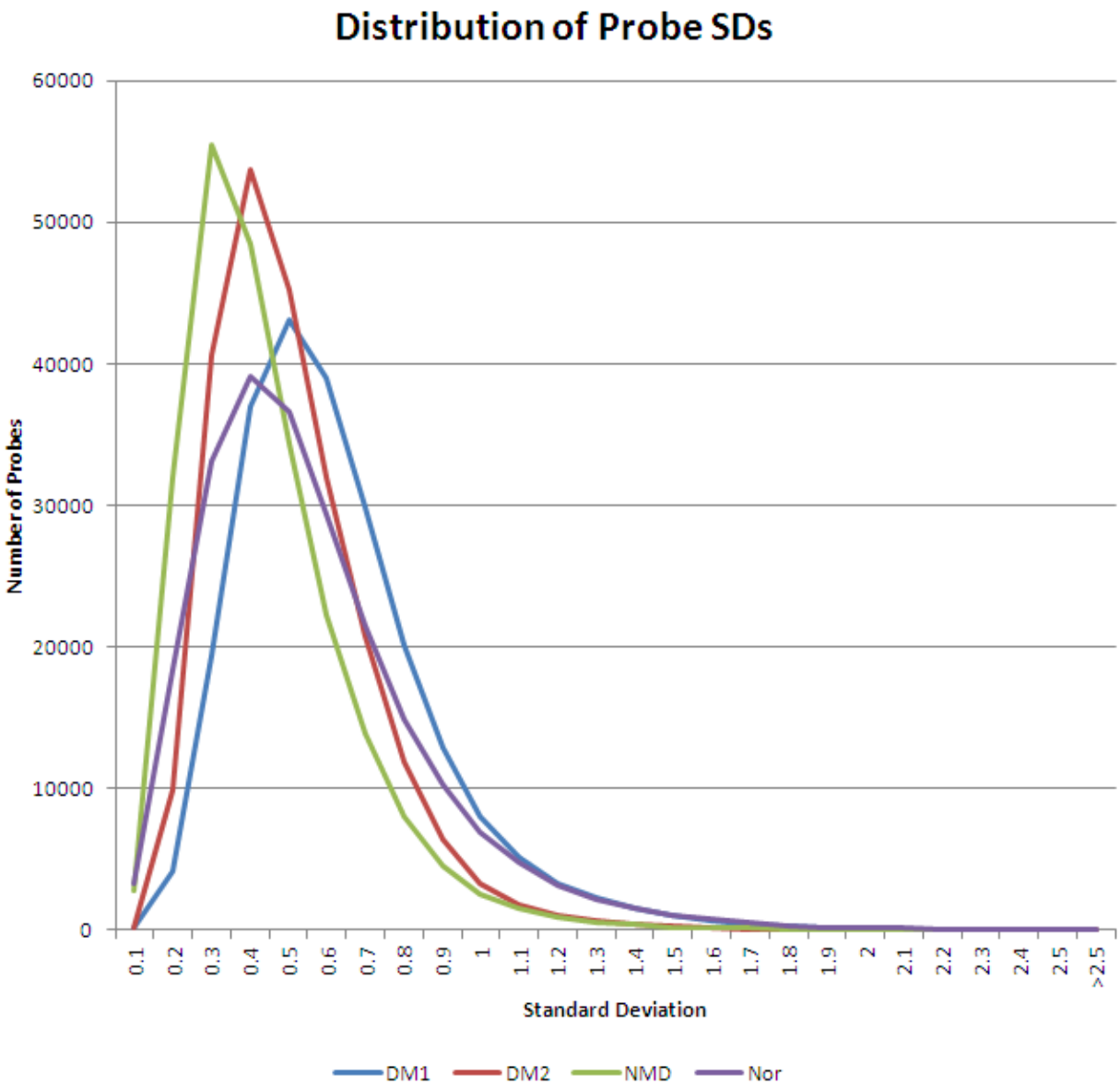

Distribution of Probe SDs
Number of Probes
60000
50000
40000
30000
20000
10000
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2
2.1
2.2
2.3
2.4
2.5
>2.5
Standard Deviation
DM1
DM2
NMD
Nor

Figure S2

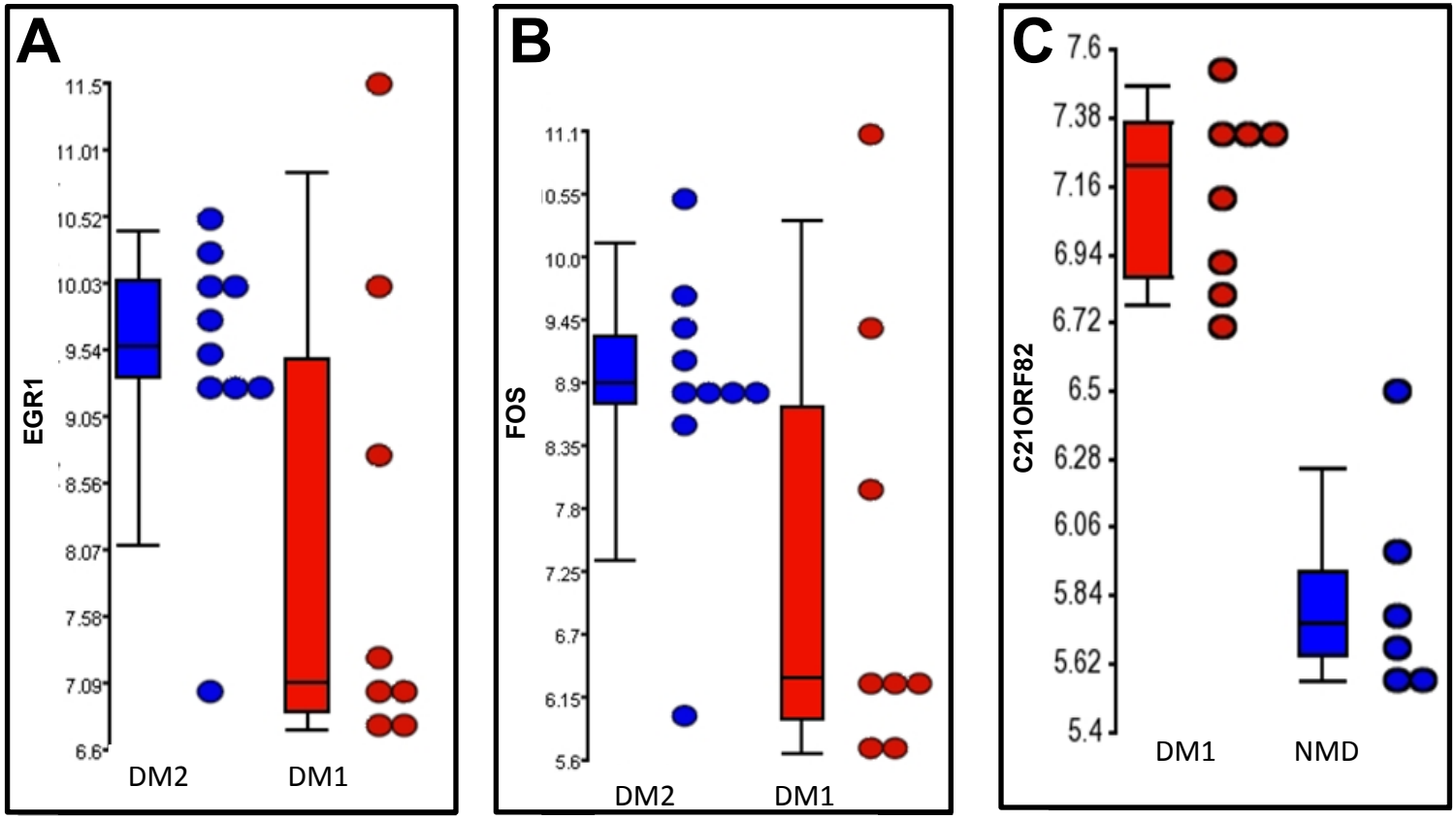

A
EGR1
11.5
11.01
10.52
10.03
9.54
9.05
8.56
8.07
7.58
7.09
6.6
DM2
DM1
B
FOS
11.1
10.55
10.0
9.45
8.9
8.35
7.8
7.25
6.7
6.15
5.6
DM2
DM1
C
C21ORF82
7.6
7.38
7.16
6.94
6.72
6.5
6.28
6.06
5.84
5.62
5.4
DM1
NMD

Figure S2

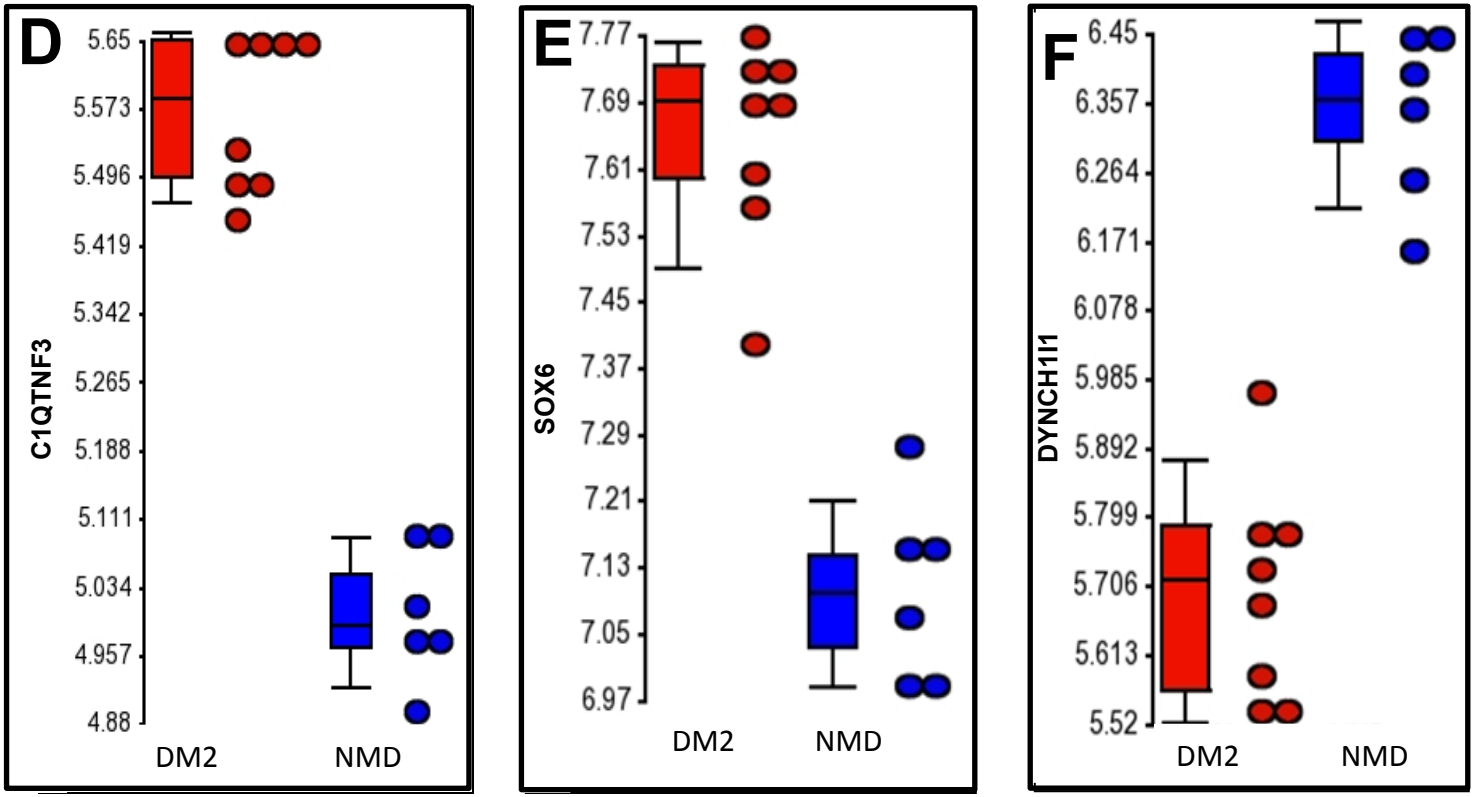

D
C1QTNF3
5.65
5.573
5.496
5.419
5.342
5.265
5.188
5.111
5.034
4.957
4.88
DM2
NMD
E
SOX6
7.77
7.69
7.61
7.53
7.45
7.37
7.29
7.21
7.13
7.05
6.97
DM2
NMD
F
DYNCH1I1
6.45
6.357
6.264
6.171
6.078
5.985
5.892
5.799
5.706
5.613
5.52
DM2
NMD

Figure S2

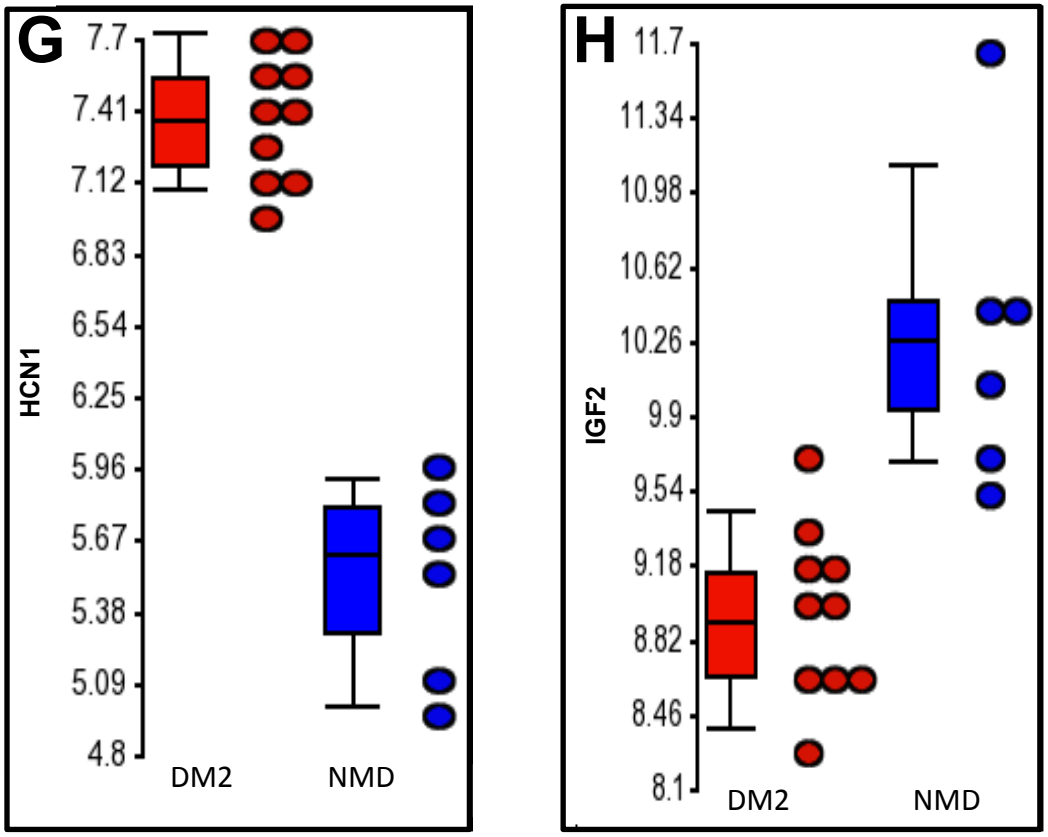

G
HCN1
7.7
7.41
7.12
6.83
6.54
6.25
5.96
5.67
5.38
5.09
4.8
DM2
NMD
H
IGF2
11.7
11.34
10.98
10.62
10.26
9.9
9.54
9.18
8.82
8.46
8.1
DM2
NMD

Figure S3A

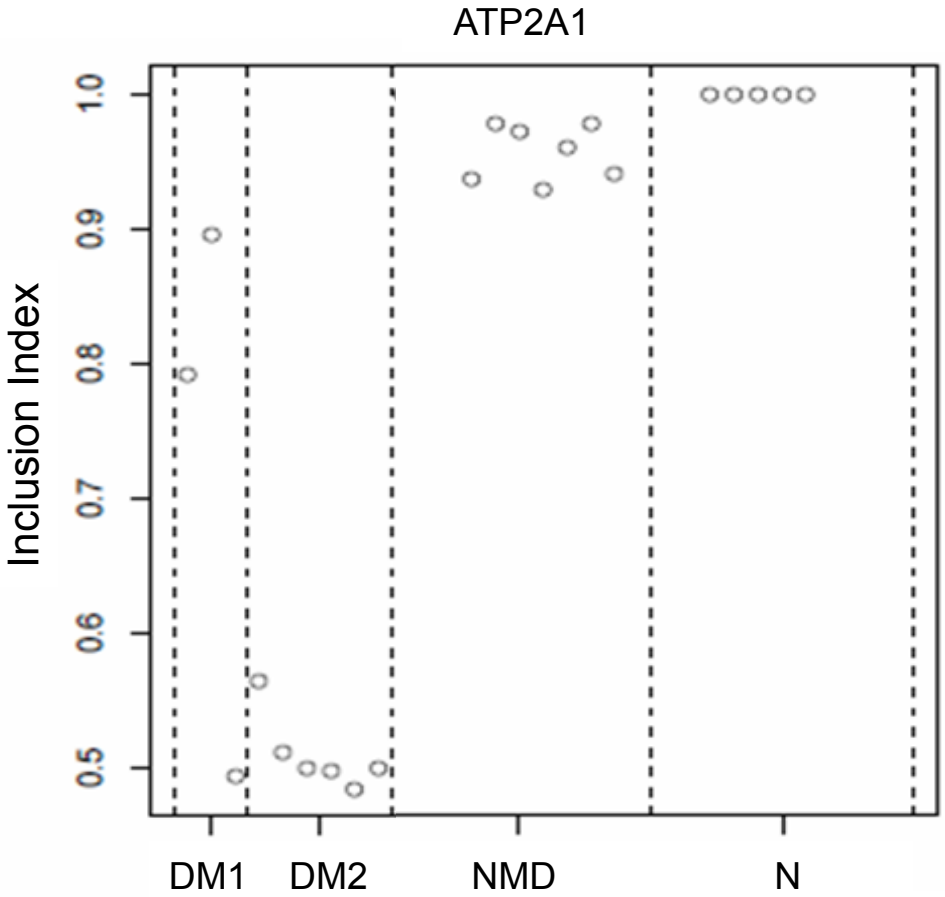


Figure S3B

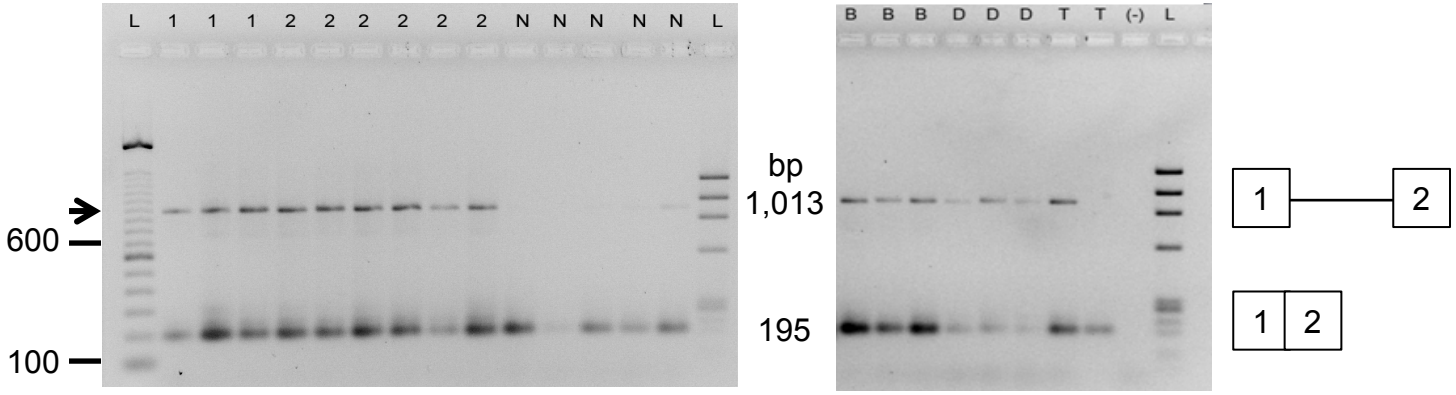
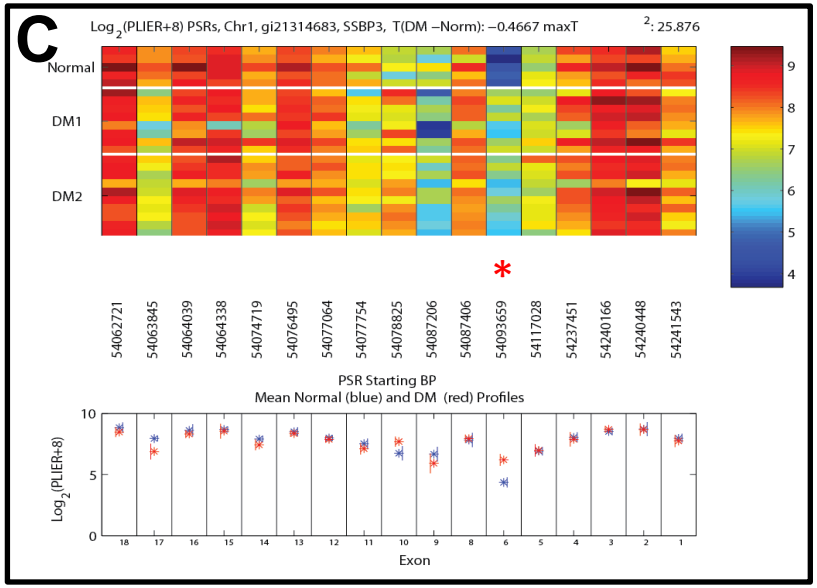


Figure S3


C
Log2(PLIER+8) PSRs, Chr1, gi21314683, SSBP3, T(DM –Norm): –0.4667 maxT
2: 25.876
Normal
DM1
DM2
54062721
54063845
54064039
54064338
54074719
54076495
54077064
54077754
54078825
54087206
54087406
54093659
54117028
54237451
54240166
54240448
54241543
PSR Starting BP
Mean Normal (blue) and DM (red) Profiles
Log2(PLIER+8)
Exon

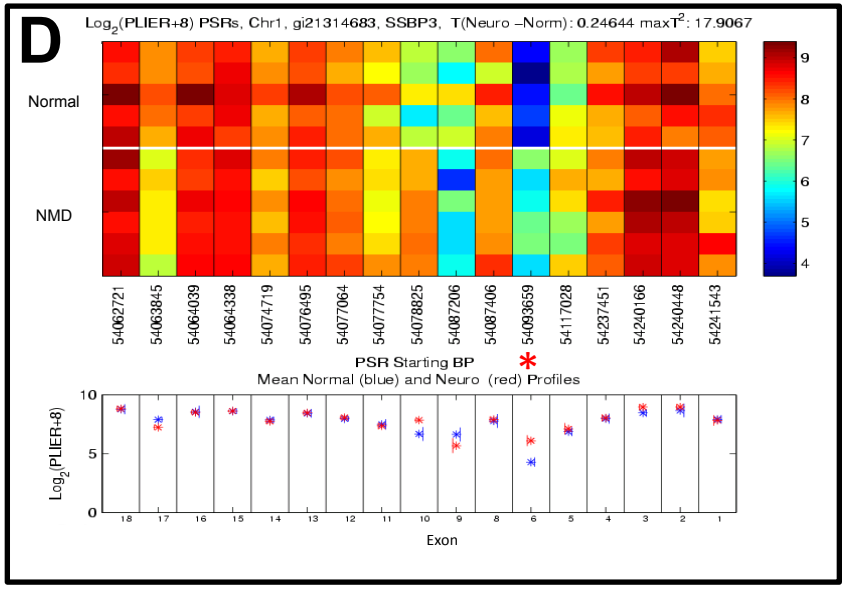

D
Log2(PLIER+8) PSRs, Chr1, gi21314683, SSBP3, T(Neuro –Norm): 0.24644 maxT2: 17.9067
Normal
NMD
54062721
54063845
54064039
54064338
54074719
54076495
54077064
54077754
54078825
54087206
54087406
54093659
54117028
54237451
54240166
54240448
54241543
PSR Starting BP
Mean Normal (blue) and Neuro (red) Profiles
Log2(PLIER+8)
Exon

Figure S4A

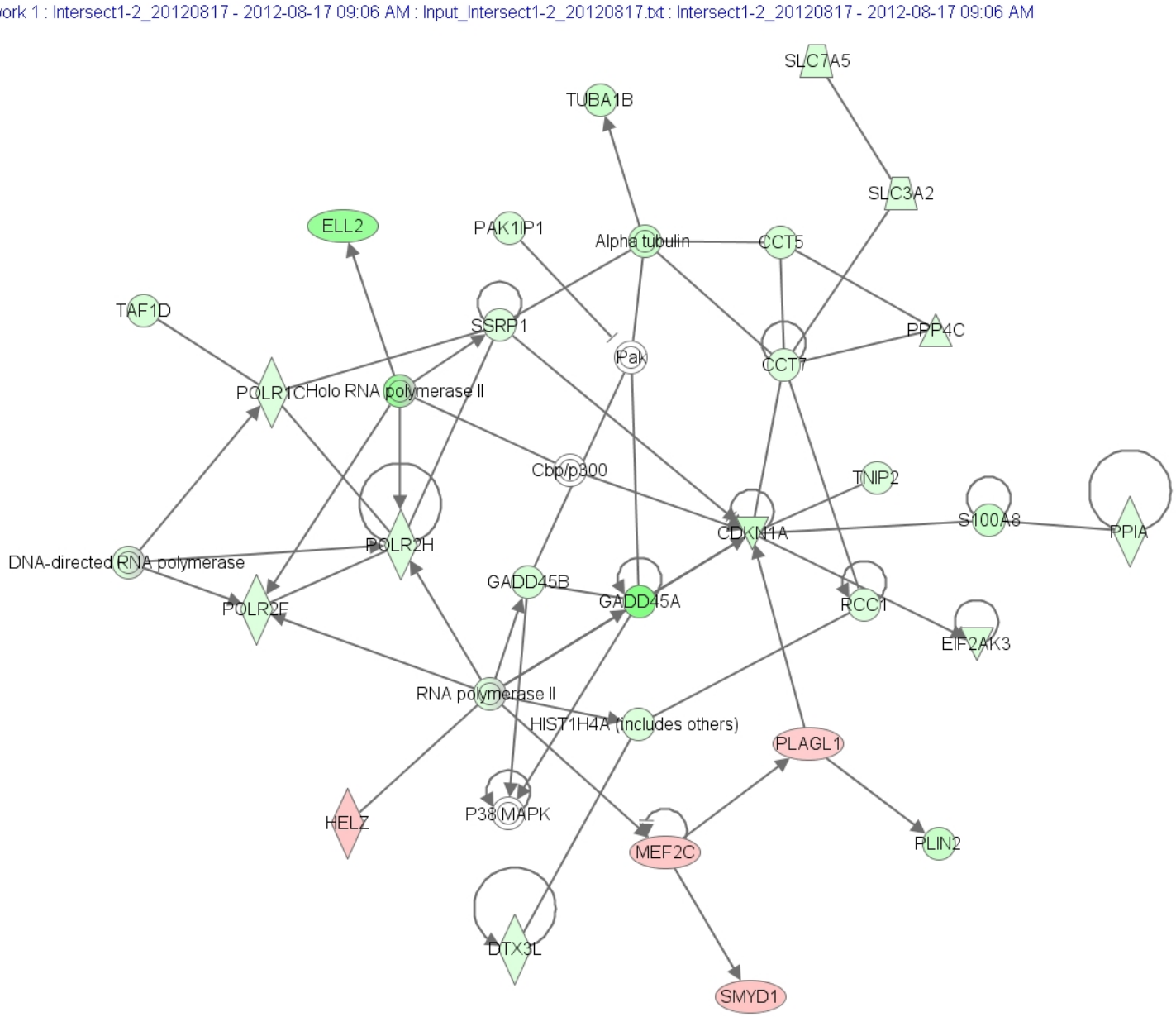

Network 1 : Intersect1-2_20120817 - 2012-08-17 09:06 AM : Input_Intersect1-2_20120817.txt : Intersect1-2_20120817 - 2012-08-17 09:06 AM
SLC7A5
TUBA1B
SLC3A2
ELL2
PAK1IP1
Alpha tubulin
CCT5
TAF1D
SSRP1
PPP4C
Pak
CCT7
POLR1C
Holo RNA polymerase II
Cbp/p300
TNIP2
S100A8
PPIA
CDKN1A
POLR2H
DNA-directed RNA polymerase
GADD45B
GADD45A
RCC1
POLR2E
EIF2AK3
RNA polymerase II
HIST1H4A (includes others)
PLAGL1
HELZ
P38 MAPK
PLIN2
MEF2C
DTX3L
SMYD1
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Figure S4B

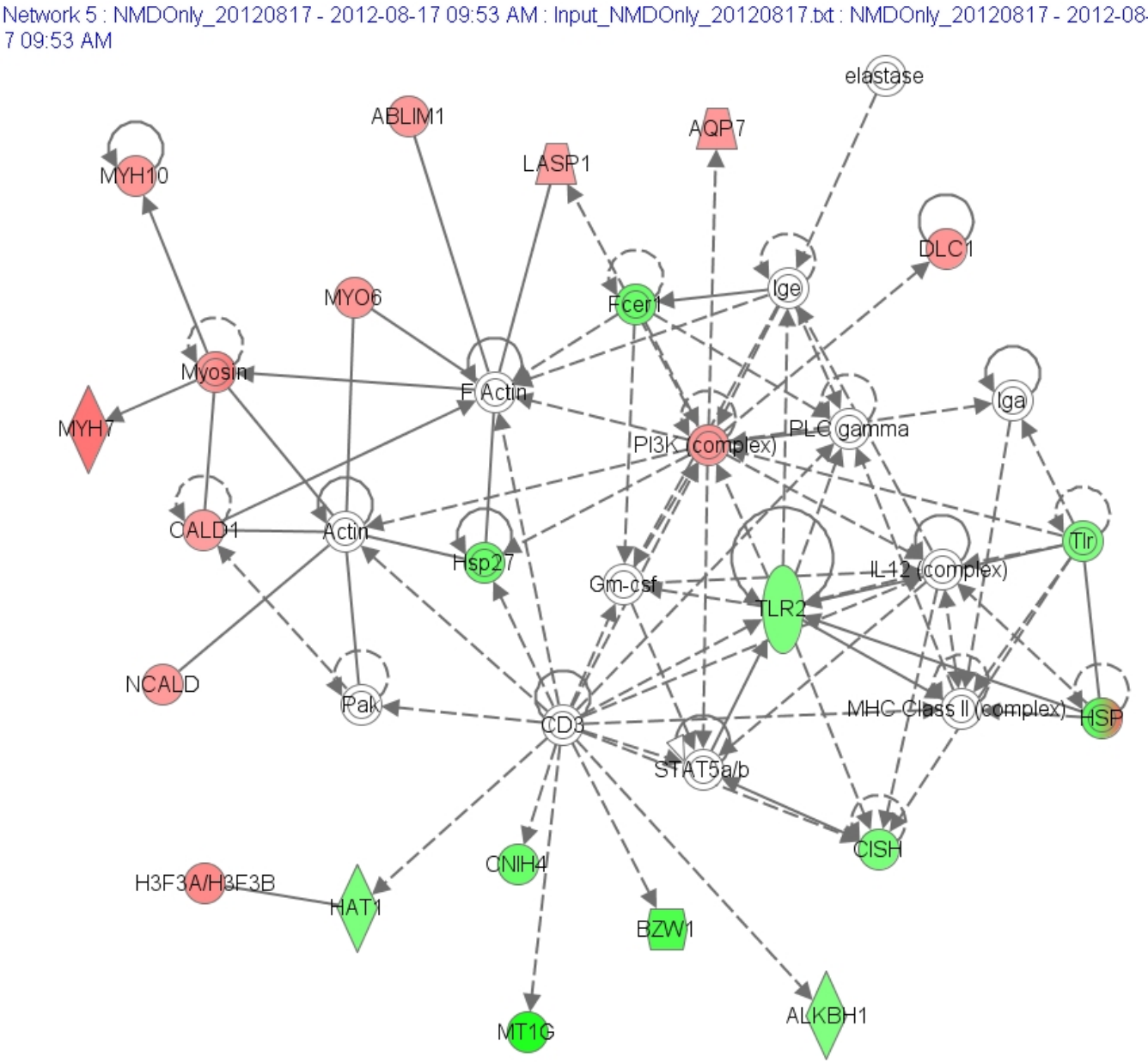
Network 5 : NMDOnly_20120817 - 2012-08-17 09:53 AM : Input_NMDOnly_20120817.txt : NMDOnly_20120817 - 2012-08-17 09:53 AM
elastase
ABLIM1
AQP7
MYH10
LASP1
DLC1
MYO6
Fcer1
Ige
Myosin
F Actin
Iga
MYH7
PI3K (complex)
PLC gamma
CALD1
Actin
Tlr
Hsp27
Gm-csf
IL-12 (complex)
TLR2
NCALD
Pak
MHC Class II (complex)
HSP
CD3
STAT5a/b
CISH
CNIH4
H3F3A/H3F3B
HAT1
BZW1
ALKBH1
MT1G
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Figure S4C

Network 1 : All3Shared_20120817 - 2012-08-17 09:52 AM : Input_All3Shared_20120817.txt : All3Shared_20120817 - 2012-08-17 09:52 AM

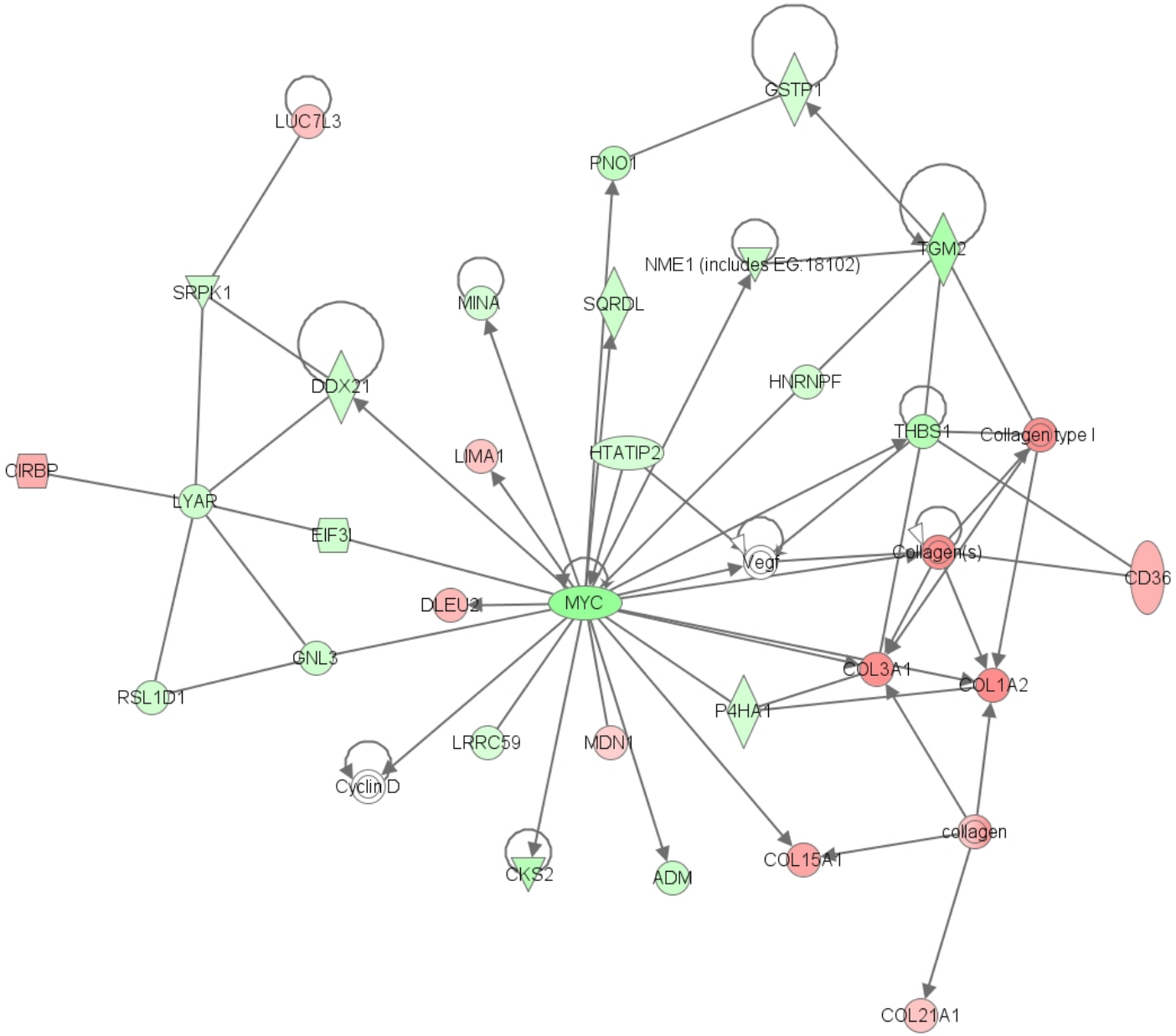

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Figure S4D

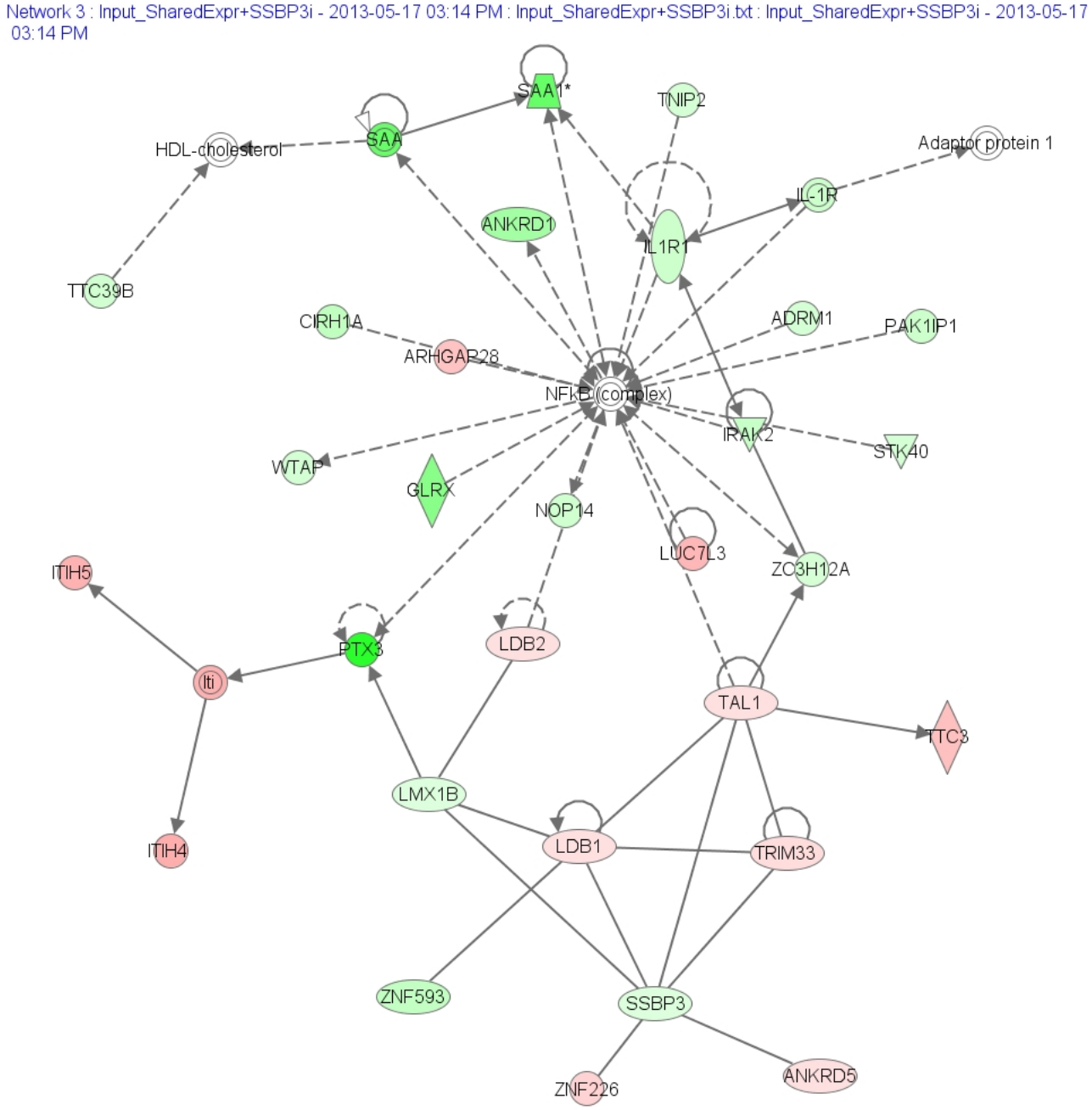
Network 3 : Input_SharedExpr+SSBP3i - 2013-05-17 03:14 PM : Input_SharedExpr+SSBP3i.txt : Input_SharedExpr+SSBP3i - 2013-05-17 03:14 PM
SAA1*
TNIP2
HDL-cholesterol
SAA
Adaptor protein 1
IL-1R
ANKRD1
IL1R1
TTC39B
CIRH1A
ADRM1
PAK1IP1
ARHGAP28
NFkB (complex)
IRAK2
STK40
WTAP
GLRX
NOP14
LUC7L3
ZC3H12A
ITIH5
PTX3
LDB2
Iti
TAL1
TTC8
LMX1B
ITIH4
LDB1
TRIM33
ZNF593
SSBP3
ANKRD5
ZNF226
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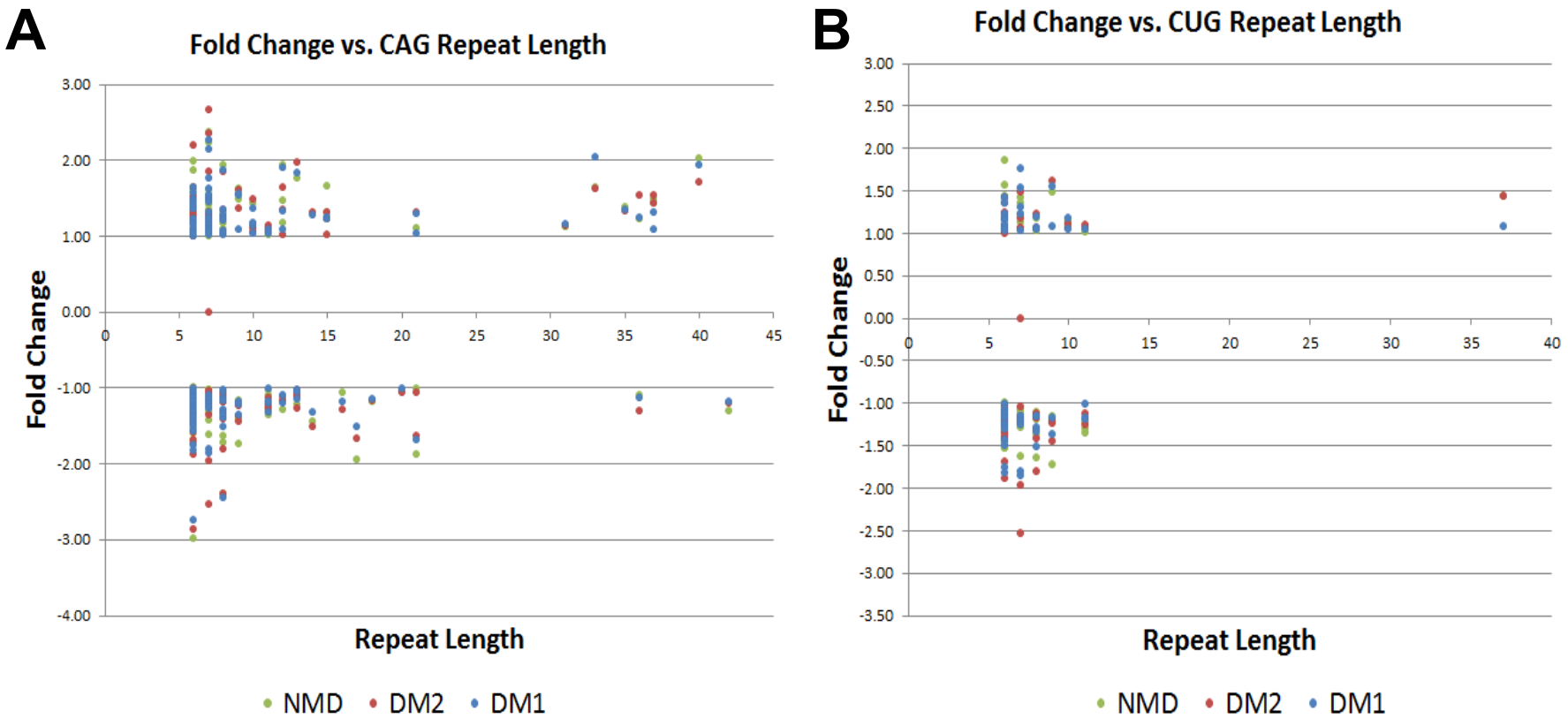
Figure S5


A
Fold Change vs. CAG Repeat Length
Fold Change
Repeat Length
NMD
DM2
DM1
B
Fold Change vs. CUG Repeat Length
Fold Change
Repeat Length
NMD
DM2
DM1