A

HD　ASD　DF　DHF

Collagen II
Amyloid
dsDNA
LKM1
Chondroitin Sulfate
Fibroid
alpha-actinin
Gangliosid
Sphingomyelin
Collagen VI
Decorin-bovine
LAMININ
Heparan Sulfate
genomic DNA
PCNA
Collagen III
Collagen I
MPO
Proteoglycan
GBM
Glycated Albumin
Ribosome-C
GBM (disso)
Hemocyanin
Histone H1
Alpha Fodrin (SPTAN1)
Fibronectin
GAD2
Chromatin
Nucleosome antigen
TBB antigen
b2-microglobulin
Elastin
Aggrecan
Collagen IV
Heparin HSPG
Complement C1q
Complement C1s
Complement C6
Complement C5
Complement C4
TPO
Complement C9
Centromere
FactorB
Gliadin (IgG)
MAG
Muscarinic receptor
Ribo phosphoprotein P0
Prothrombin Protien
Vitronectin
Complement C3
PM/Scl-100
La/SSB
Topoisomerase I
DNP
U1-snRNP-68
FactorH
Complement C3a
Mitochondrial antige
HSP
Fibrinogen IV
Fibrinogen-total
Histone H3
Histone H4
KU (P70/P80)
Vimentin
Histone H2A
Histone H2B
b2-glycoprotein I
IFT-1
Myosin
cENA
TG
RO-52/SSA
Scl-70
U1-snRNP-A
Ribo phosphoprotein P2
Mi-2
TIF1 GAMMA
RO-60/SSA
Ribo phosphoprotein P1
TNFa
Nucleolin
ssDNA
Thyroglobulin
U1-snRNP-C
Factor P
SmD3
SmB
Entaktin EDTA
U1-snRNP-BB
Jo-1
SP100
Intrinsic Factor
Myelin basic protein
Phophatidylinositol
Insulin

-3.00
-2.00
-1.00
0.00
1.00
2.00
3.00

B

| HD | ASD | DF | DHF |

Decorin-bovine
Factor D
alpha-actinin
Insulin
Phosphatidylinositol
PM/Scl-75
CSM (disso)
Laminin
Amyloid
Collagen II
CENP-A
Nup62
Cytochrome C
Intrinsic Factor
MPO
Hemocyanin
Chondroitin Sulfate
Aggrecan
Proteoglycan
Heparin
Heparan Sulfate
Heparan HSPG
Entactin
Mitochondrial antige
Collagen
Complement C8
b2-microglobulin
Glycated Albumin
Collagen III
Fibronectin
Genomic DNA
Collagen VI
dsDNA
Complement C3a
Prothrombin protien
Collagen IV
Vimentin
Factor I
SP100
Myelin Basic protein
Collagen V
EBNA1
Bp2glycoprotein I
Muscarinic receptor
TPO
AGTR1
La/SSB
Histone H1
Fibrinogen IV
Fibrinogen S
Complement C6
Complement C4
Complement C7
AQP4
Complement C1q
Complement C9
Factor B
Complement C3
Vitronectin
Ribo phasphoprotein P0
SMD1
SRP54
Jo-1 antigen
PDLB
Factor P
FactorH
MAG
Myelin GAMMA
BPI
IgG4
Chromatin
Histone-total
Histone H3
KU (P70/P80)
Ro-52/SSA
Ro-52/SSA
Alpha Fodrin (SPTAN1)
GBM
Mi-2
Ribo phasphoprotein P1
Entactin EDTA
Myosin
Nucleosome antigen
SmRNP
Sm
Topoisomerase I
U1-snRNP-68
Peroxiredoxin 1
Insulin (IgG)
LC1/LKM
Scl-70
PCNA
PM/Scl-100
IL-17
Thyroglobulin
Histone H2B
Ribo phasphoprotein P2
C1q
SmD2
U1-snRNP-BB'
Nucleolin
U1-snRNP-A

1

Supplementary figure S1. Analysis of autoantibody microarray data. Representations are shown of heatmaps of IgM autoantibody (**A**) and IgG autoantibody (**B**). Plasma samples from 34 DENV-infected individuals including ASD (n=11), DF (n=13) and DHF (8) and HD (n=8) were used to probe autoantigen microarrays featuring 123 purified or recombinant autoantigens.
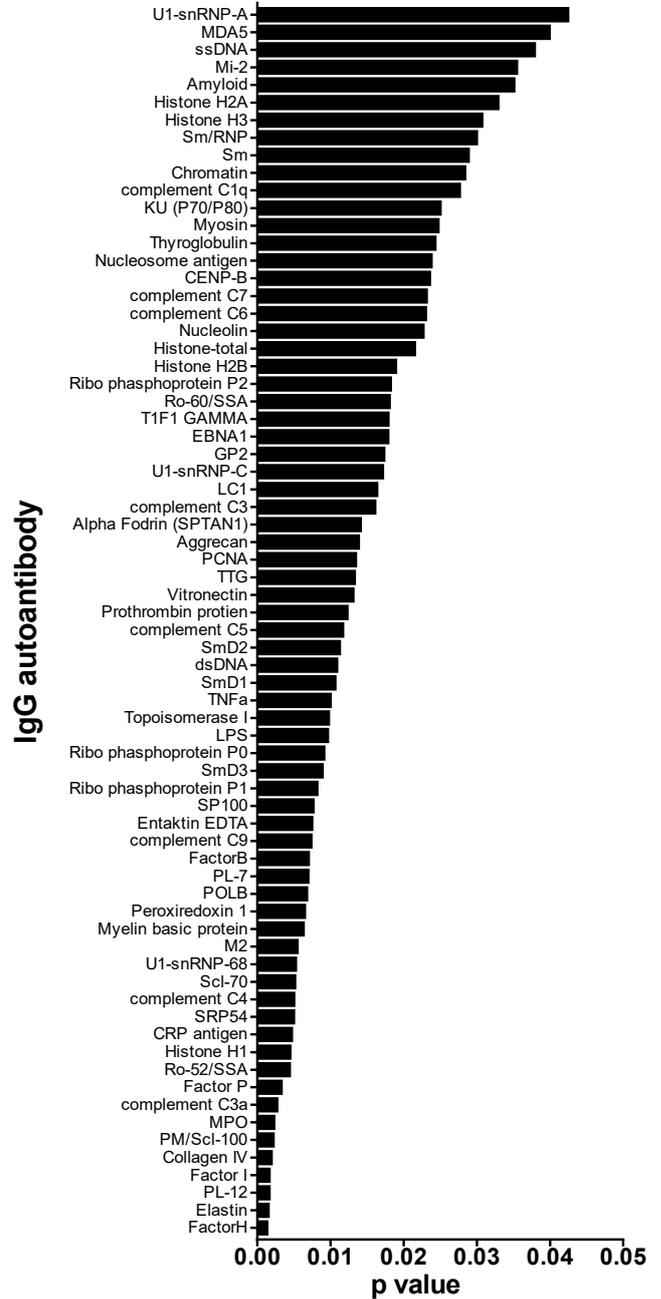
A

B

1
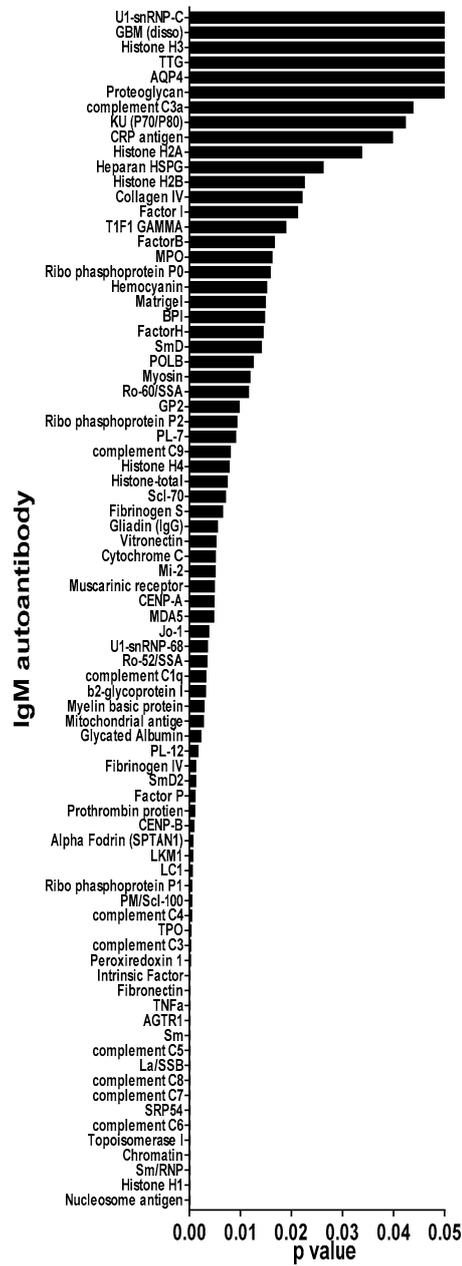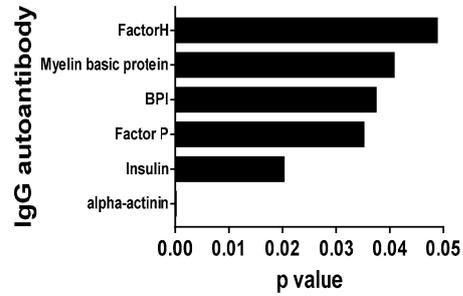
2   **Supplementary figure S2.** The graphs show the p-values in the multiple t-test comparisons of IgM

3   (**A**) or IgG (**B**) autoantibodies in healthy controls compared with those in DENV-infected individuals.

A

B

4
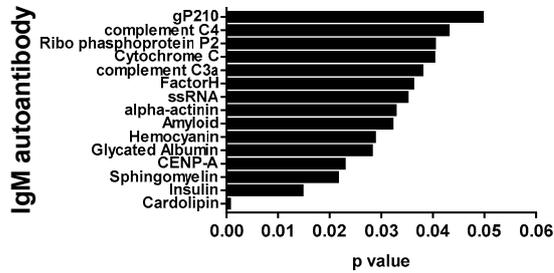
5   **Supplementary figure S3.** The graphs show the p-values in the multiple t-test comparisons of IgM

6   (**A**) or IgG (**B**) autoantibodies in primary DENV-infected individuals compared with those in

7   secondary DENV-infected individuals.

A

B
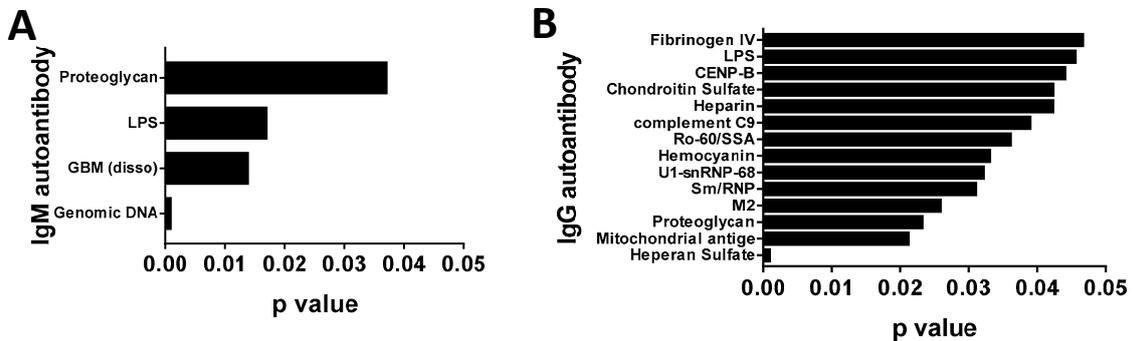
Supplementary figure S4. The graphs show the p-values from multiple t-test comparisons of IgM (**A**) or IgG (**B**) autoantibodies in ASD compared with those in DF/DHF patients.

A. IgM autoantibody
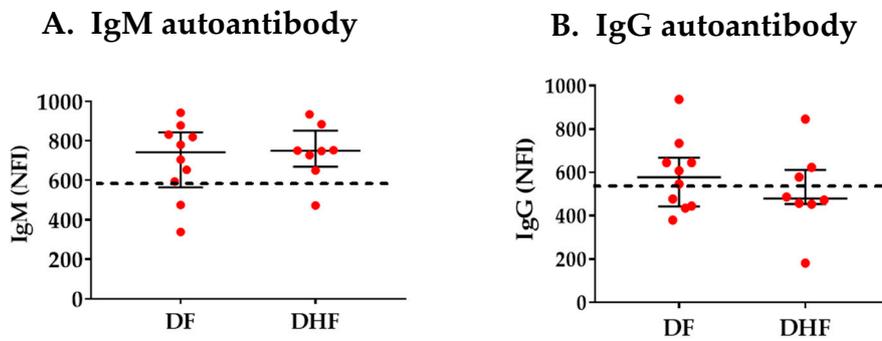
B. IgG autoantibody

Supplementary figure S5. Autoantibody expression in DF and DHF patients with secondary DENV infection. (**A, B**) Each dot represents the sum of NFI signals of IgM autoantibodies or IgG autoantibodies in each individual. The dashed lines indicate the baseline of the median NFI in HD group. Statistical analysis was done using two-tailed Mann Whitney tests to compare the two groups. Median and interquartile ranges are shown. DF=10, DHF=8.