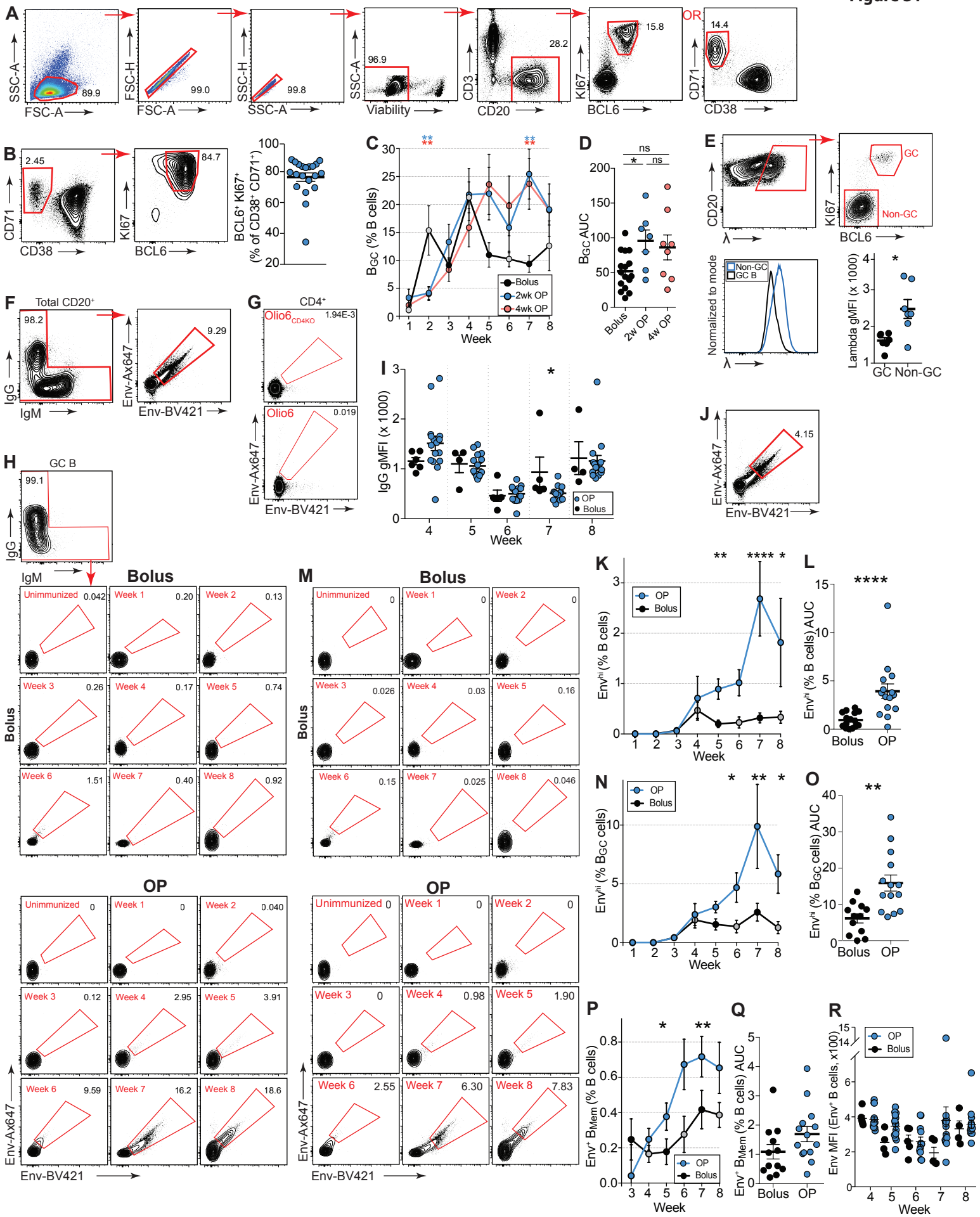
**Figure S1**


A
SSC-A
FSC-A
89.9
FSC-H
99.0
SSC-H
99.8
96.9
Viability
CD3
CD20
28.2
Ki67
BCL6
15.8
OR
CD71
CD38
14.4
B
2.45
84.7
BCL6⁺ Ki67⁺ (% of CD38⁺ CD71⁺)
C
BGC (% B cells)
Week
Bolus
2wk OP
4wk OP
D
ns
BGC AUC
Bolus
2w OP
4w OP
E
GC
Non-GC
λ
Normalized to mode
Non-GC
GC B
Lambda gMFI (x 1000)
GC
Non-GC
F
Total CD20⁺
98.2
IgG
IgM
Env-Ax647
Env-BV421
9.29
G
CD4⁺
Olio6CD4KO
1.94E-3
Olio6
0.019
H
GC B
99.1
I
IgG gMFI (x 1000)
OP
Bolus
J
4.15
Bolus
Unimmunized
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
OP
K
Envhi (% B cells)
L
Envhi (% B cells) AUC
N
Envhi (% BGC cells)
O
Envhi (% BGC cells) AUC
P
Env⁺ BMem (% B cells)
Q
Env⁺ BMem (% B cells) AUC
R
Env MFI (Env⁺ B cells, x100)