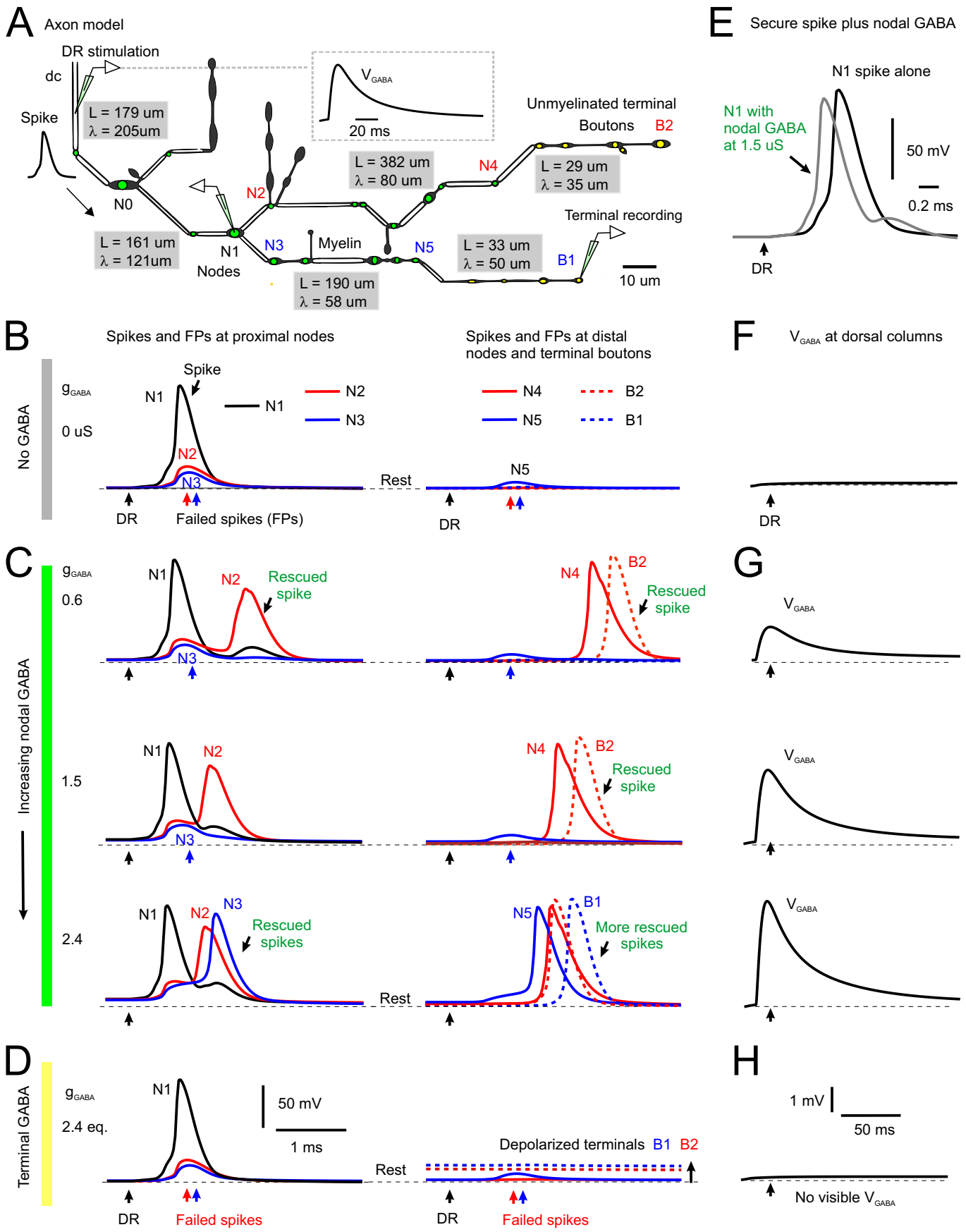
Figure S3


A
Axon model
DR stimulation
dc
Spike
L = 179 um
λ = 205um
N0
L = 161 um
λ = 121um
N1
Nodes
N2
N3
Myelin
L = 190 um
λ = 58 um
L = 382 um
λ = 80 um
N4
N5
L = 33 um
λ = 50 um
L = 29 um
λ = 35 um
Unmyelinated terminal
Boutons
B2
B1
Terminal recording
10 um
V GABA
20 ms
E
Secure spike plus nodal GABA
N1 spike alone
N1 with
nodal GABA
at 1.5 uS
50 mV
0.2 ms
DR
B
Spikes and FPs at proximal nodes
Spikes and FPs at distal
nodes and terminal boutons
No GABA
g GABA
0 uS
Spike
N1
N2
N3
N4
N5
B2
B1
Rest
DR
Failed spikes (FPs)
F
V GABA at dorsal columns
C
Increasing nodal GABA
0.6
1.5
2.4
Rescued
spike
Rescued
spikes
More rescued
spikes
G
H
Terminal GABA
2.4 eq.
50 mV
1 ms
Depolarized terminals
Failed spikes
1 mV
50 ms
No visible V GABA