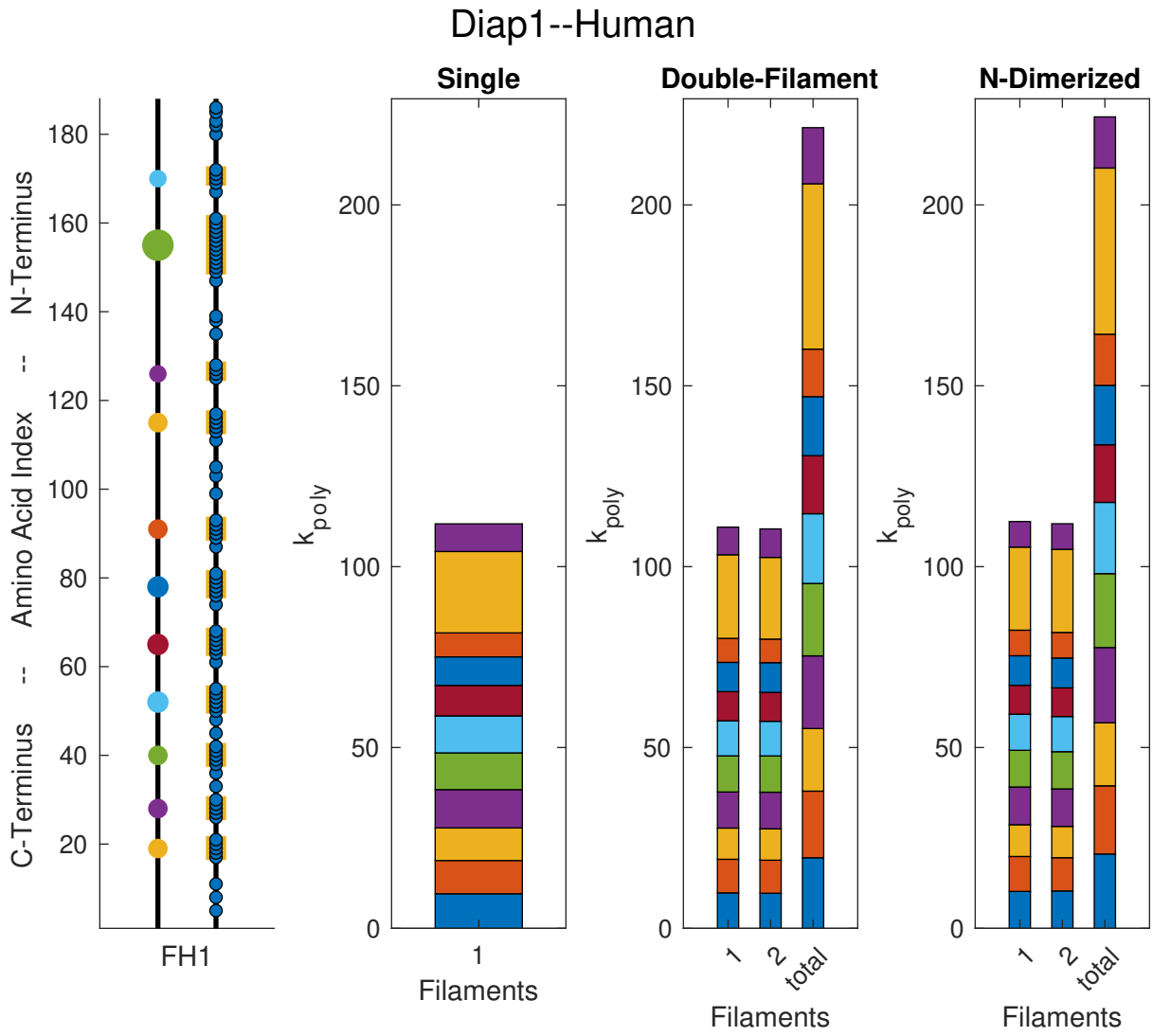
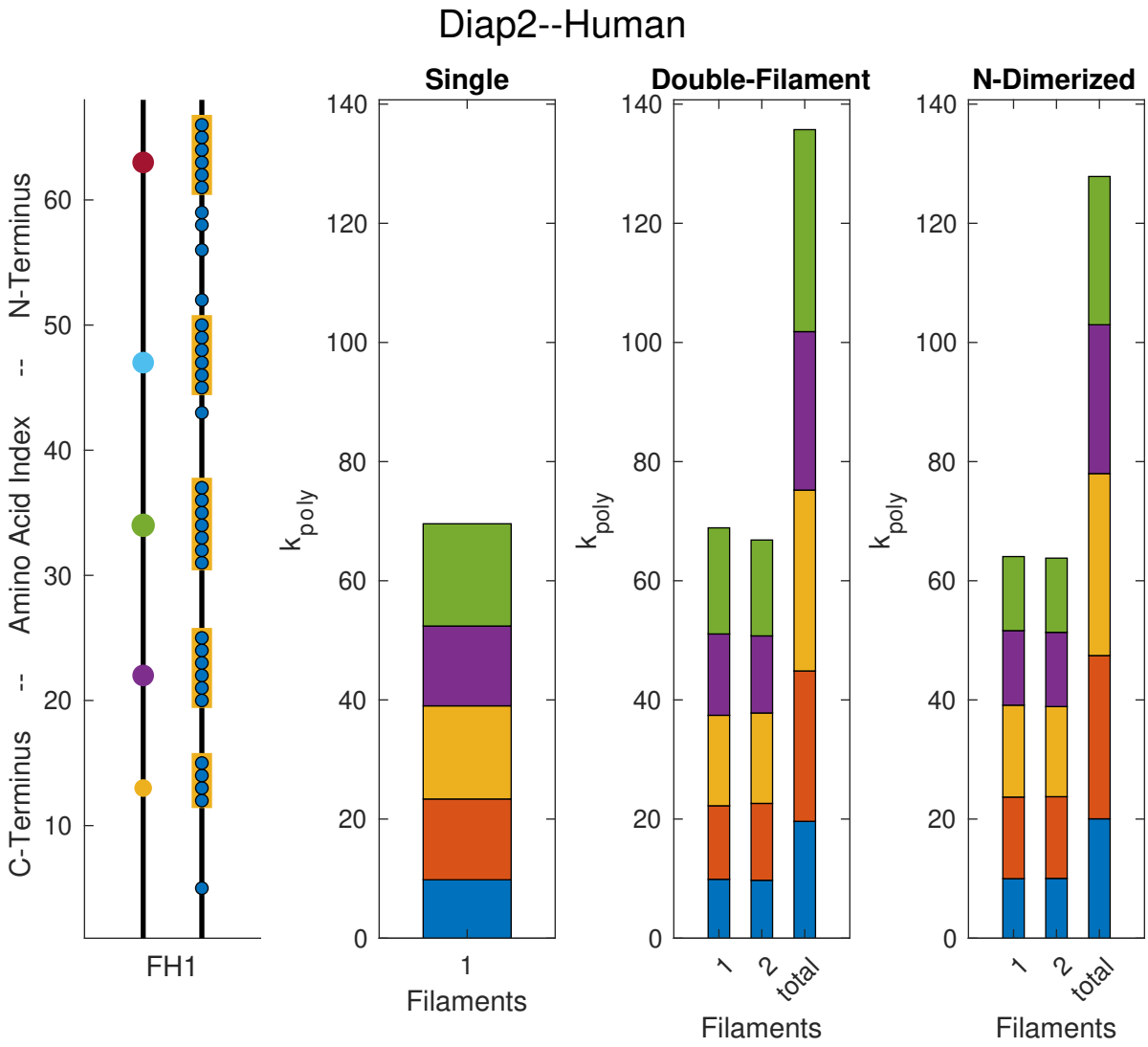
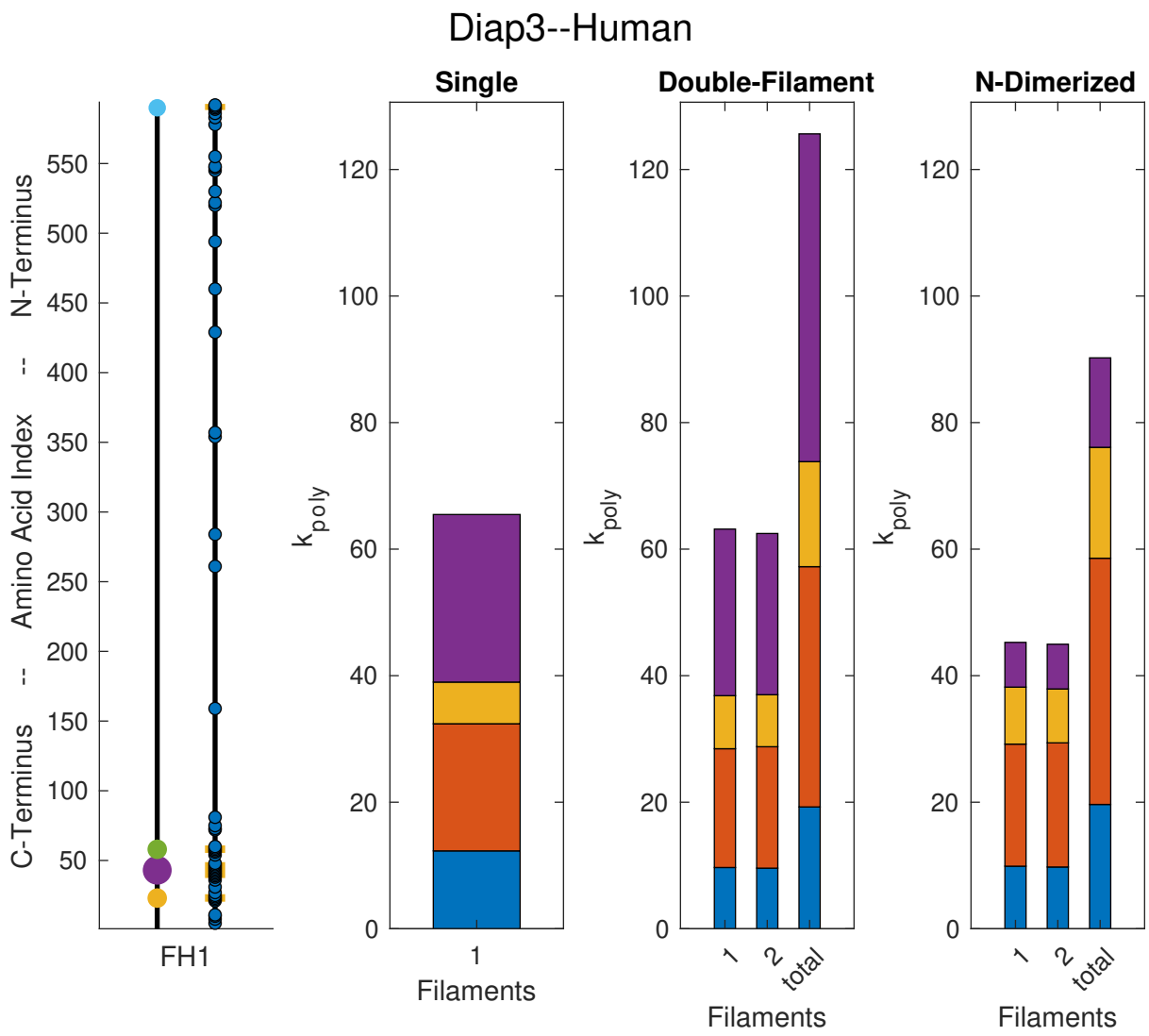
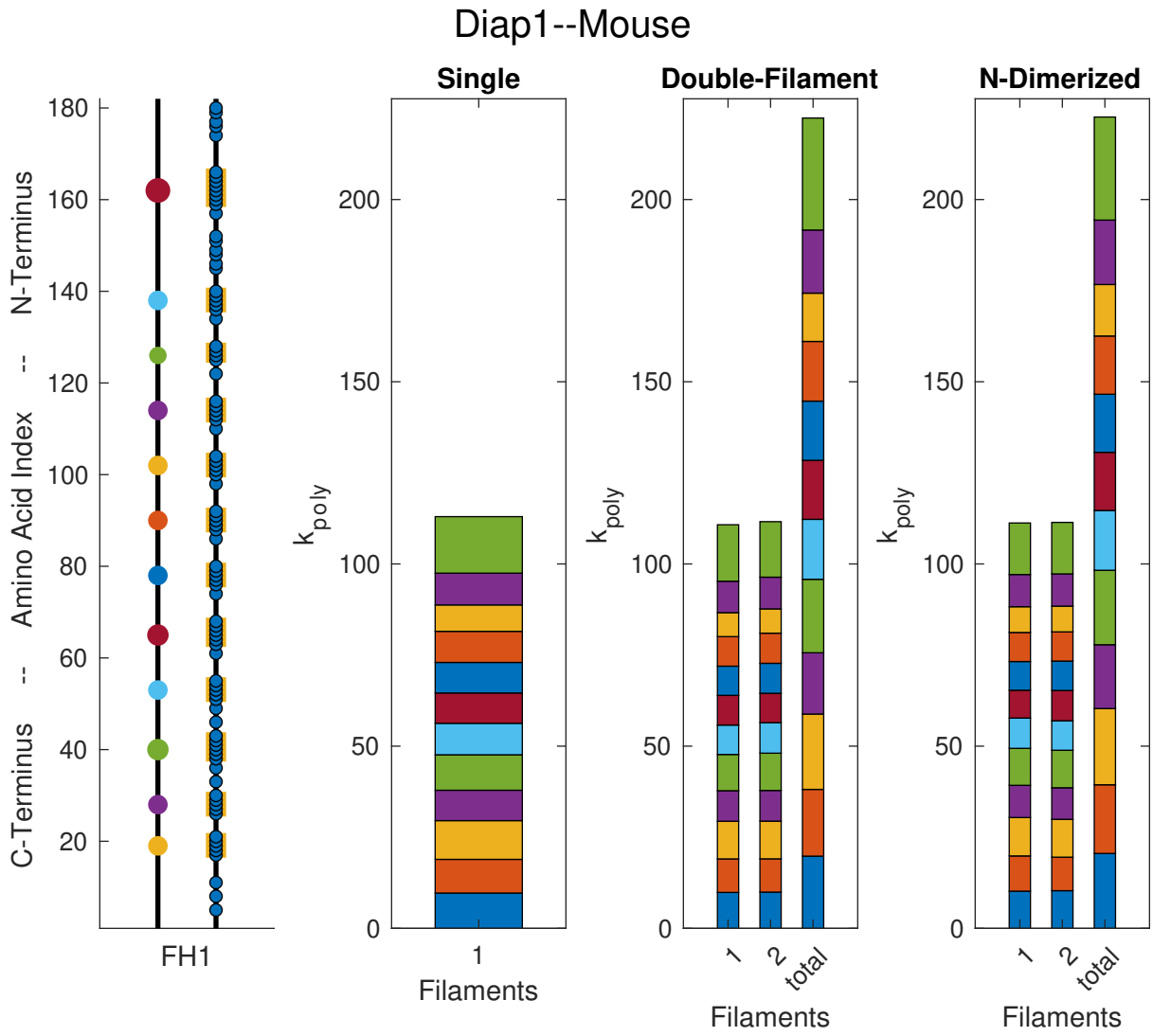
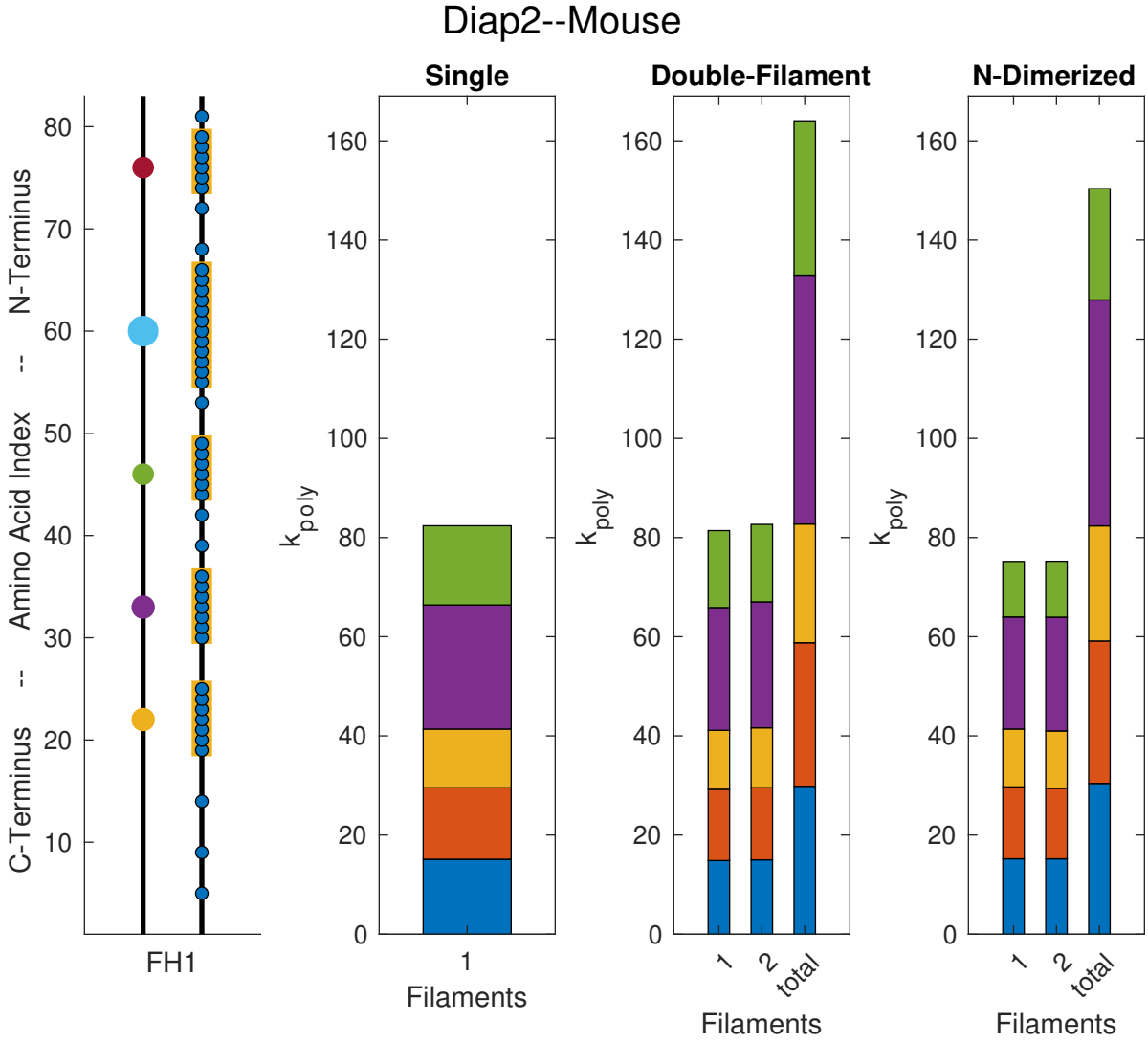
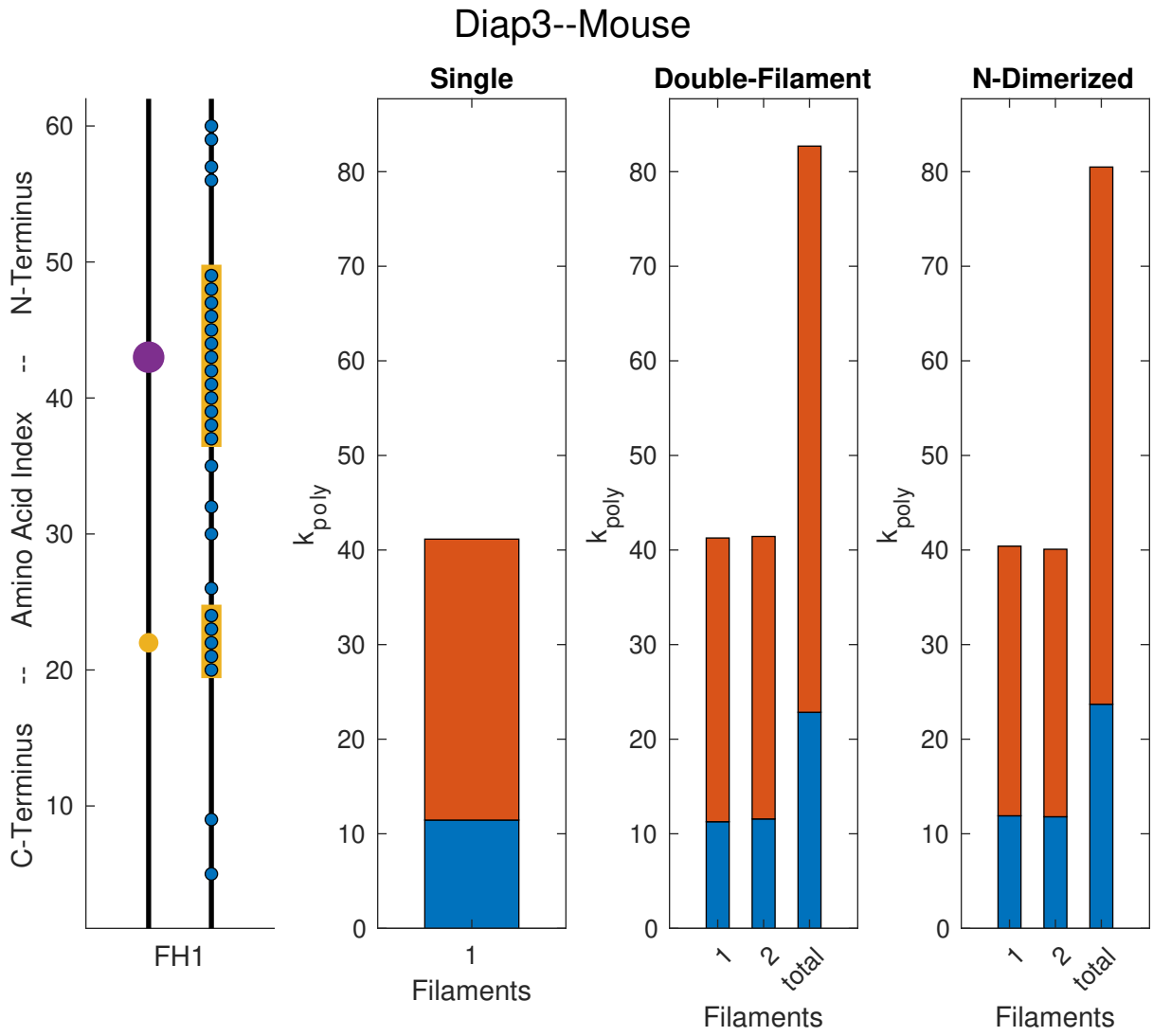

Diap1--Human
C-Terminus -- Amino Acid Index -- N-Terminus
20
40
60
80
100
120
140
160
180
FH1
Single
Double-Filament
N-Dimerized
k poly
0
50
100
150
200
1
2
total
Filaments

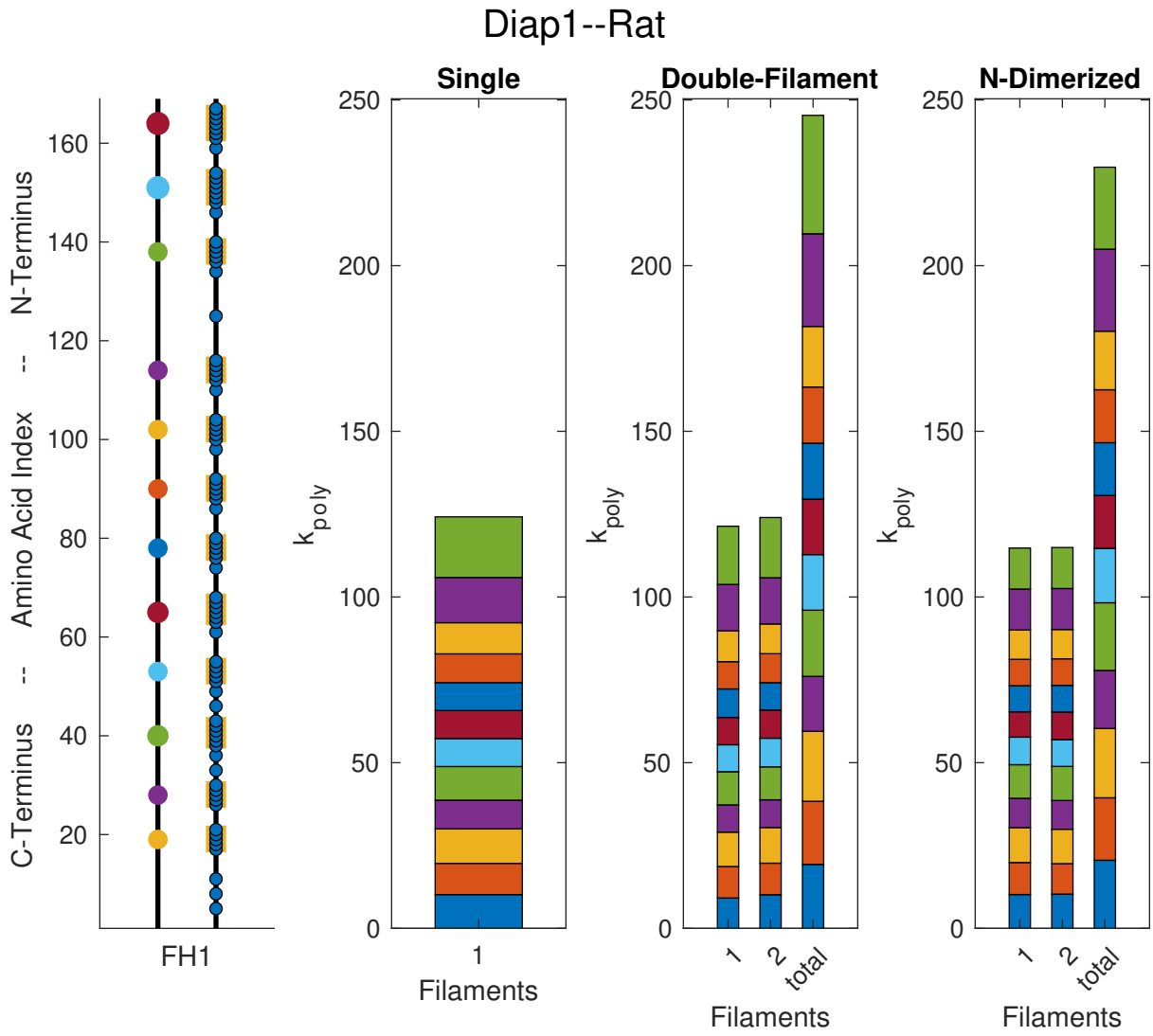

Diap2--Human
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
FH1
Single
Double-Filament
N-Dimerized
k poly
0
20
40
60
80
100
120
140
1
2
total
Filaments

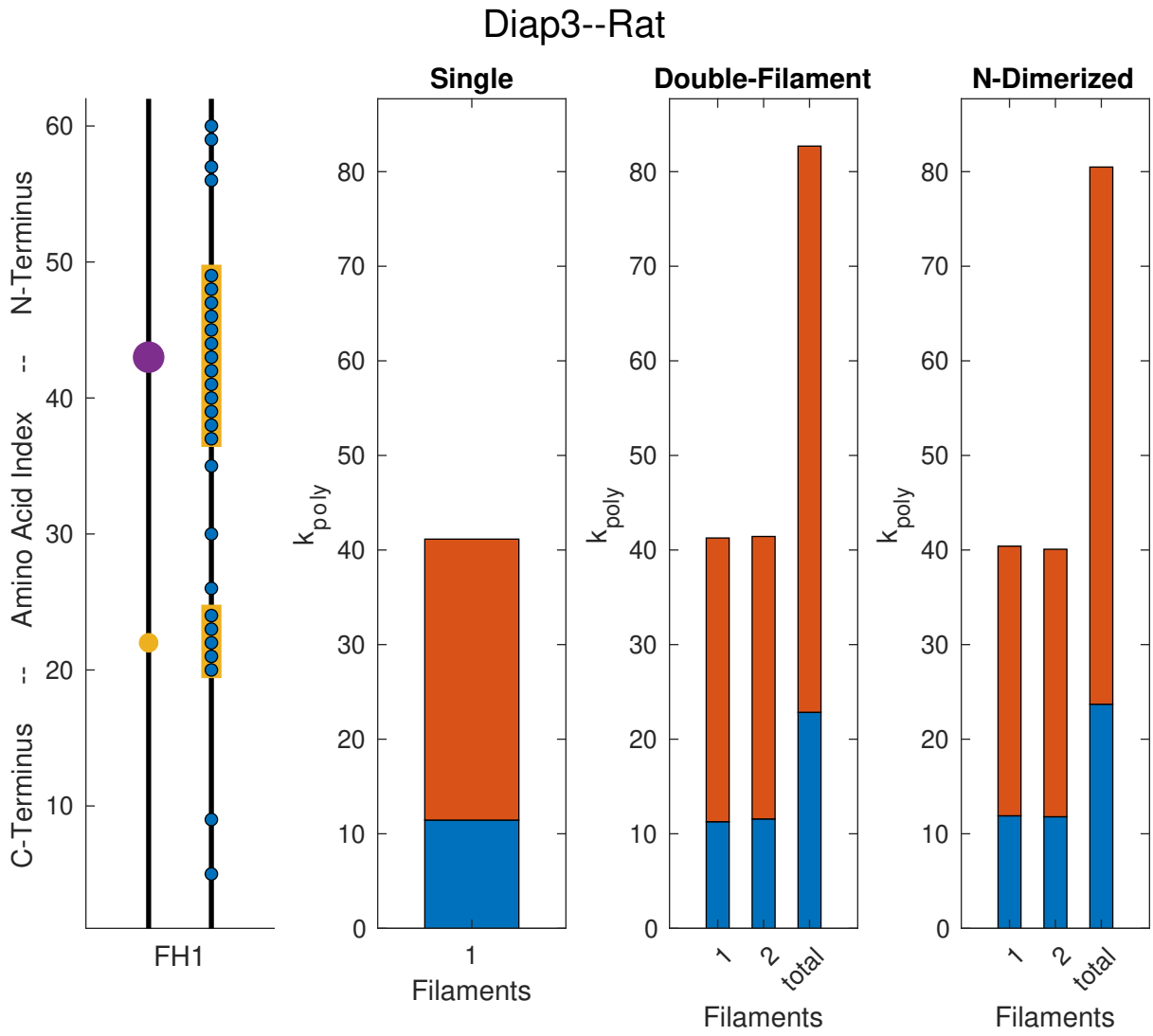

Diap3--Human
C-Terminus -- Amino Acid Index -- N-Terminus
550
500
450
400
350
300
250
200
150
100
50
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
120
100
80
60
40
20
0
1
2
total
Filaments

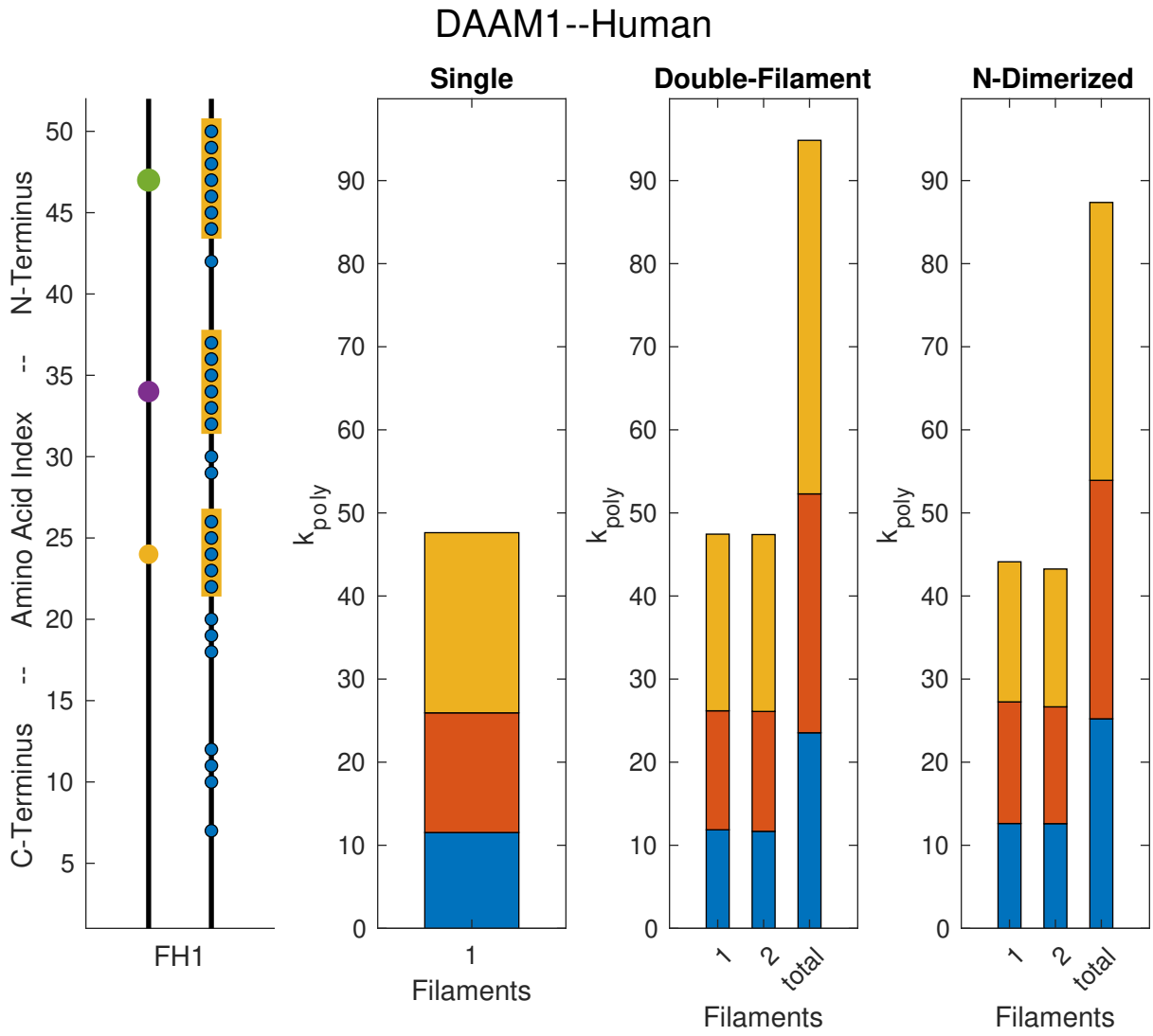

Diap1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
180
160
140
120
100
80
60
40
20
FH1
Single
Double-Filament
N-Dimerized
k_poly
200
150
100
50
0
1
2
total
Filaments

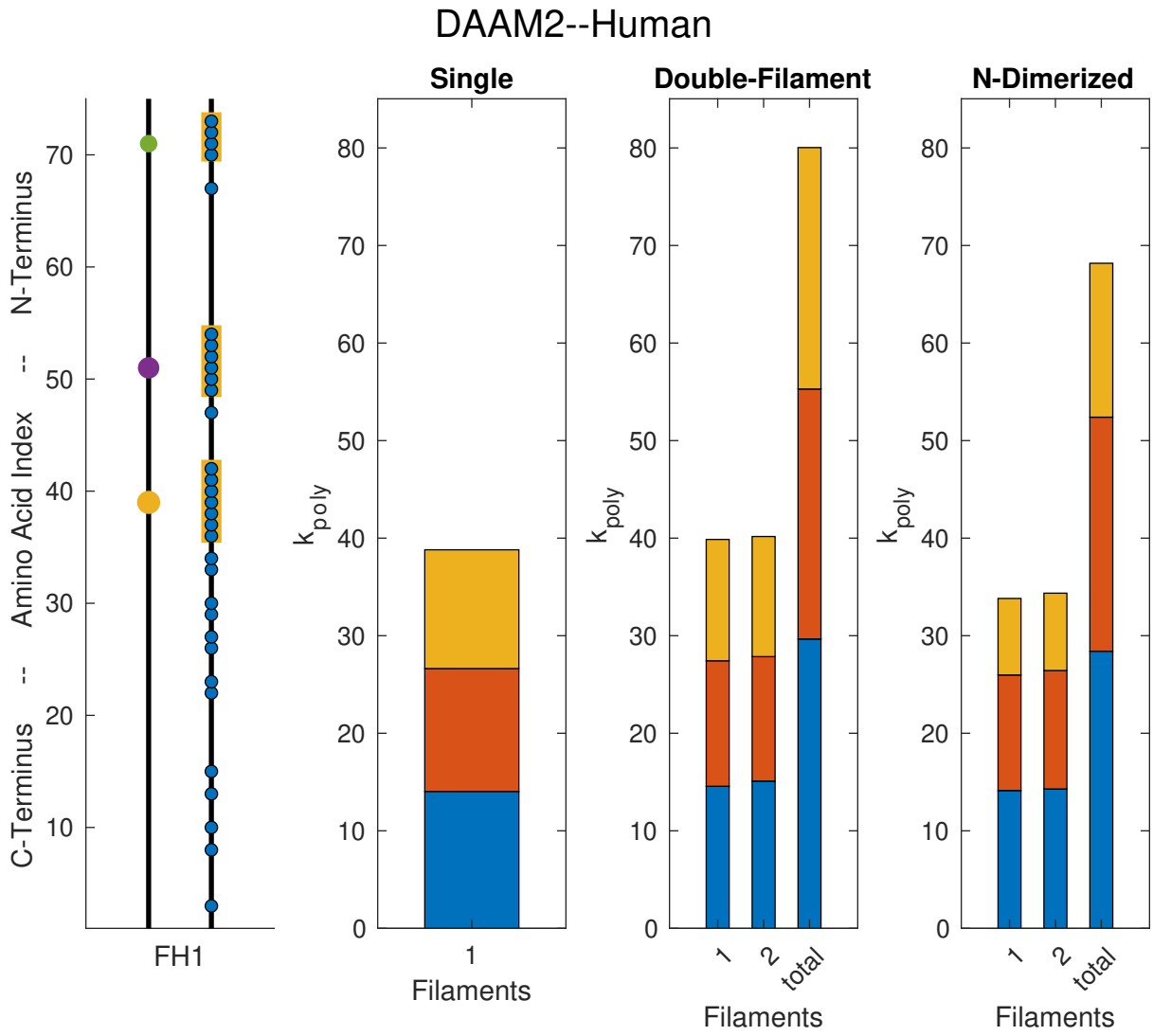

Diap2--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
70
80
FH1
Single
Double-Filament
N-Dimerized
k poly
0
20
40
60
80
100
120
140
160
1
2
total
Filaments

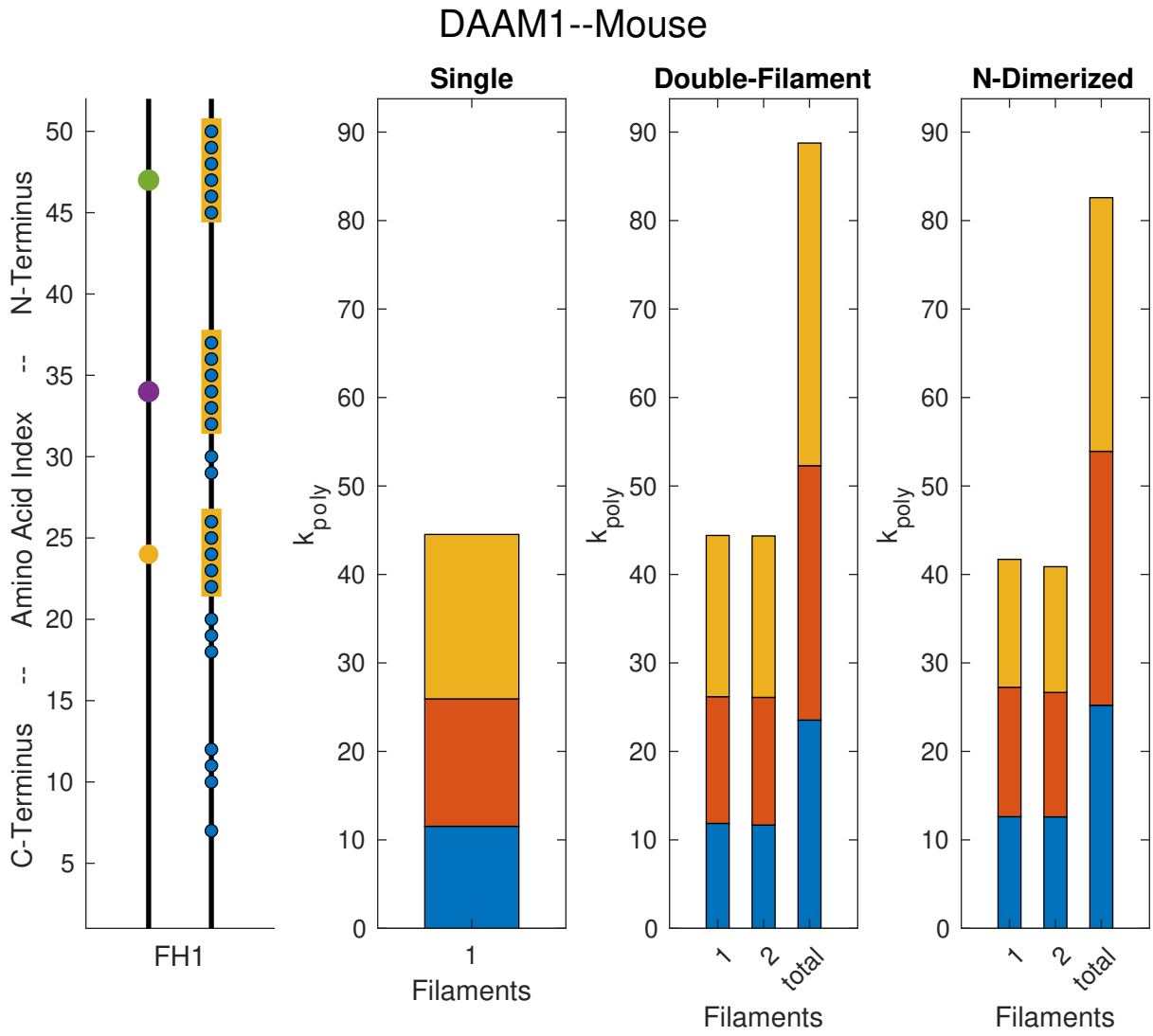

Diap3--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
10
20
30
40
50
60
70
80
1
2
total
Filaments

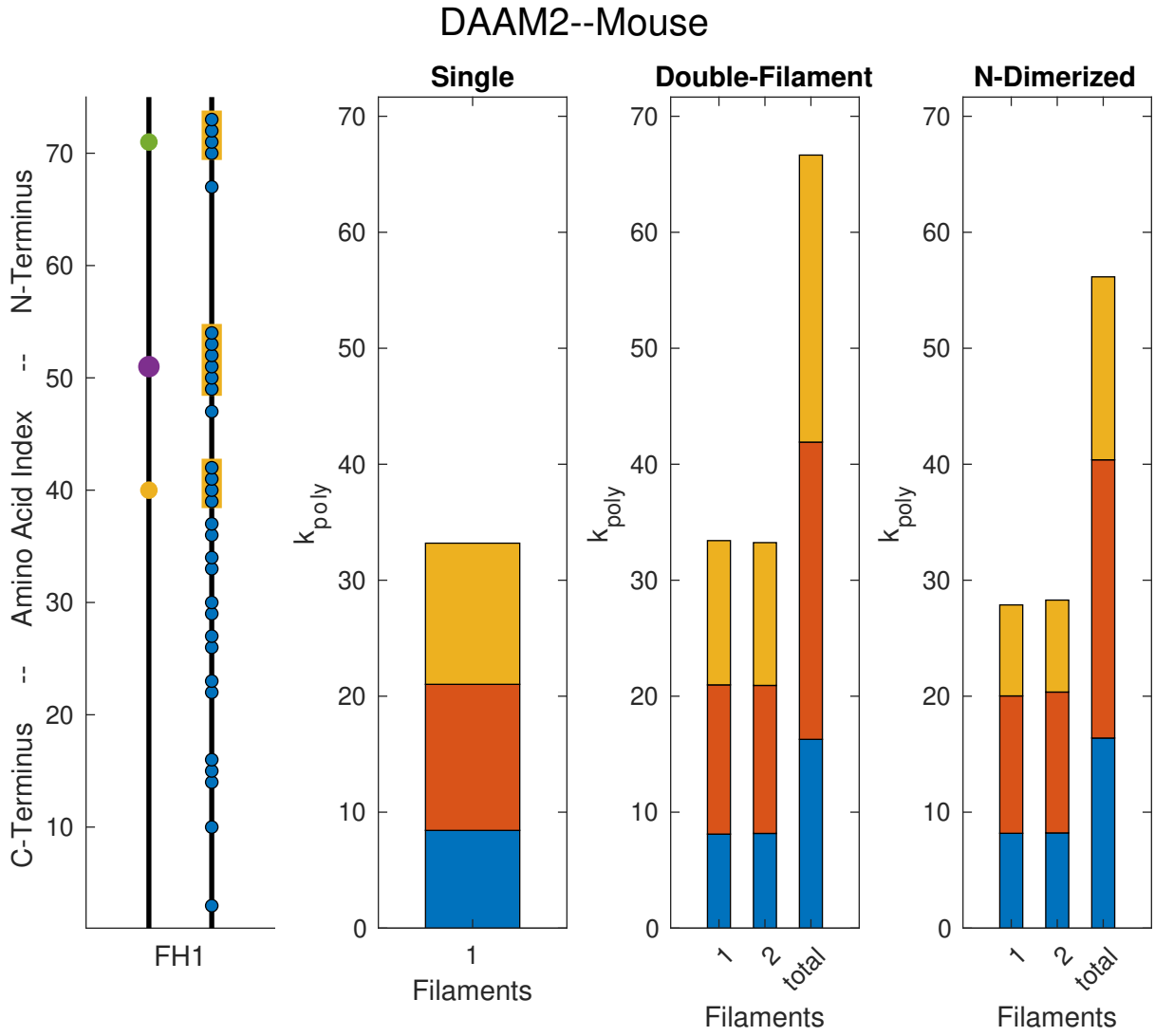

Diap1--Rat
C-Terminus -- Amino Acid Index -- N-Terminus
20
40
60
80
100
120
140
160
FH1
Single
Double-Filament
N-Dimerized
k poly
0
50
100
150
200
250
1
2
total
Filaments

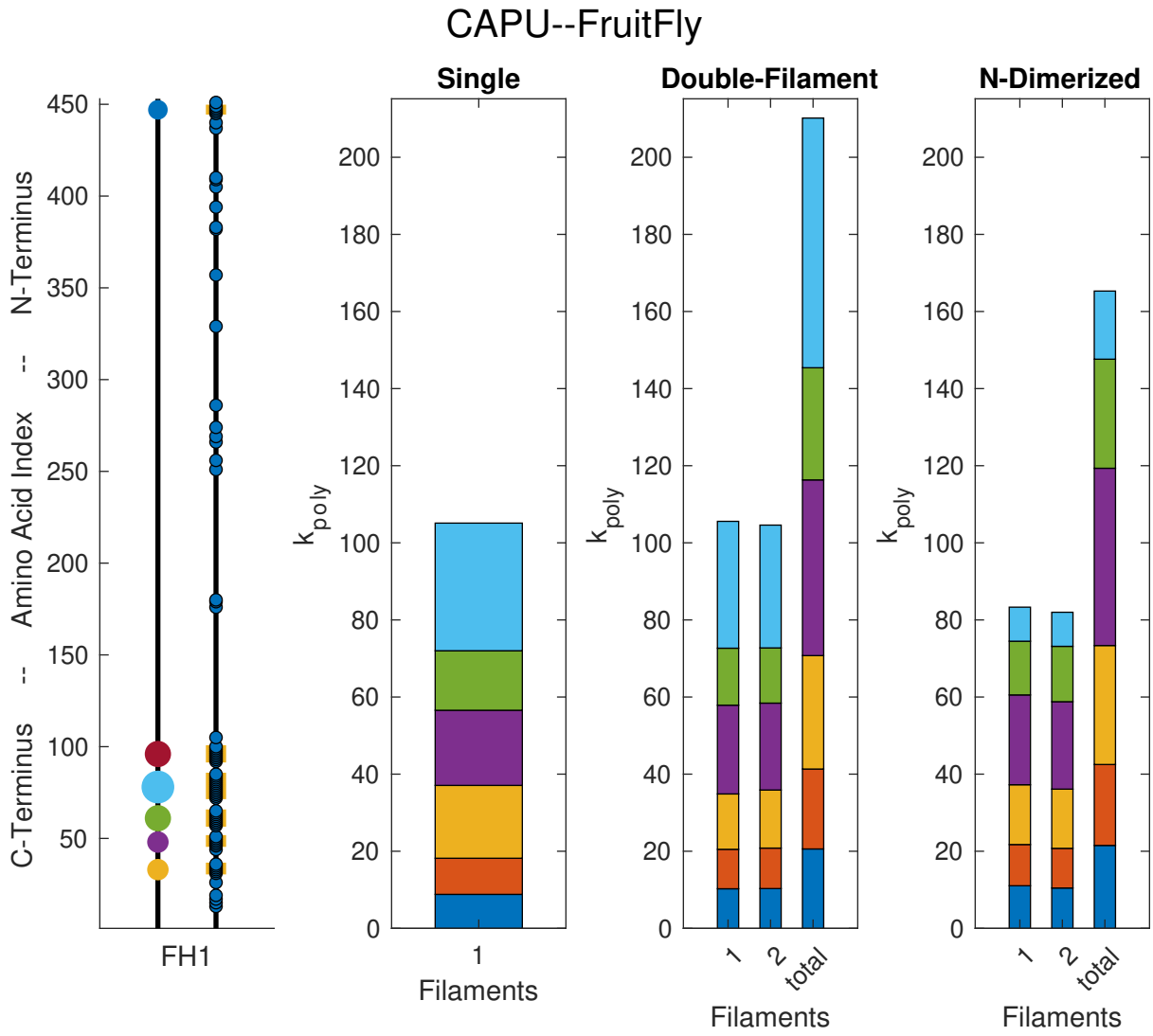

Diap3--Rat
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k_poly
Filaments
1
2
total

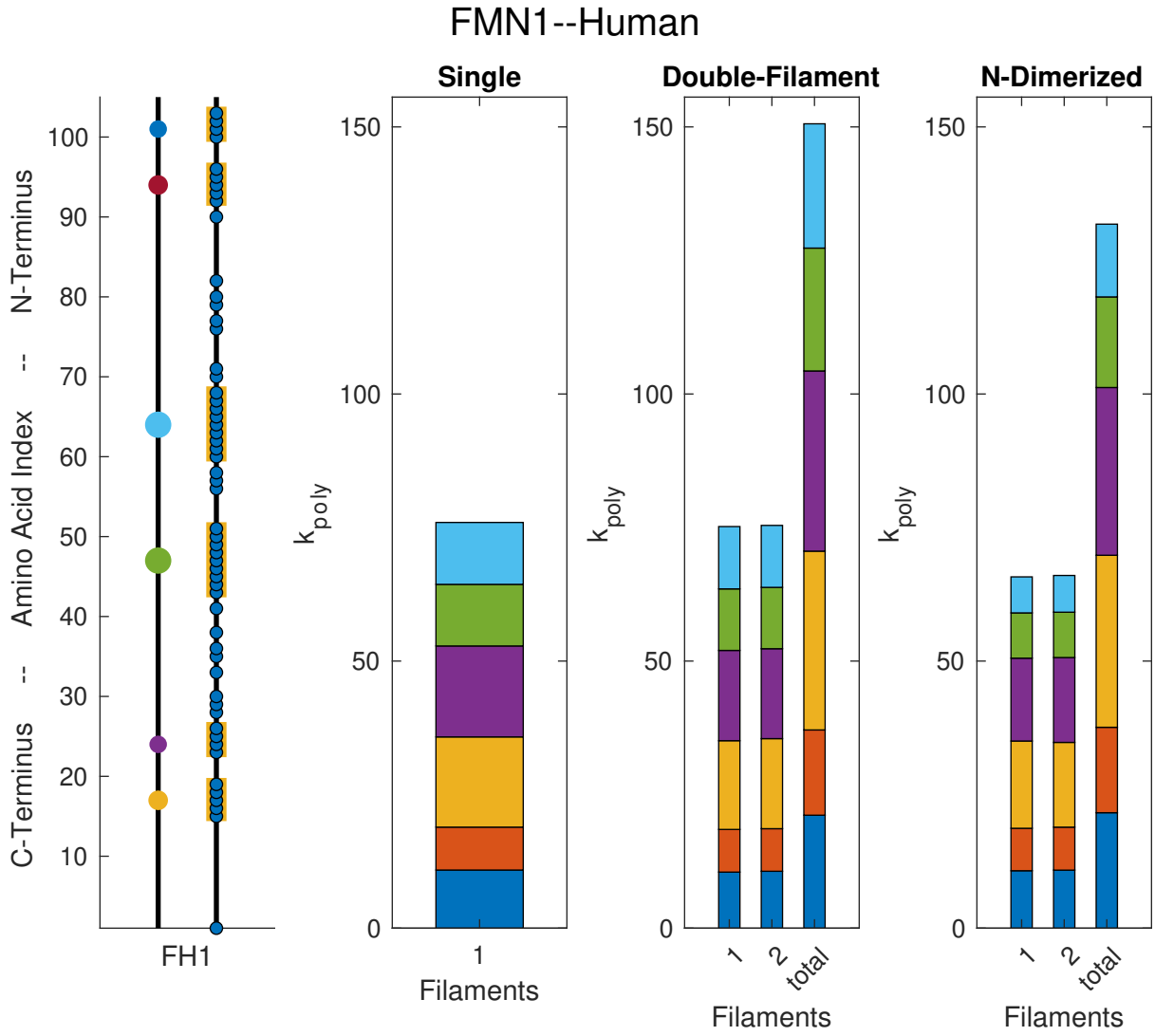

DAAM1--Human
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k poly
Filaments
1
2
total

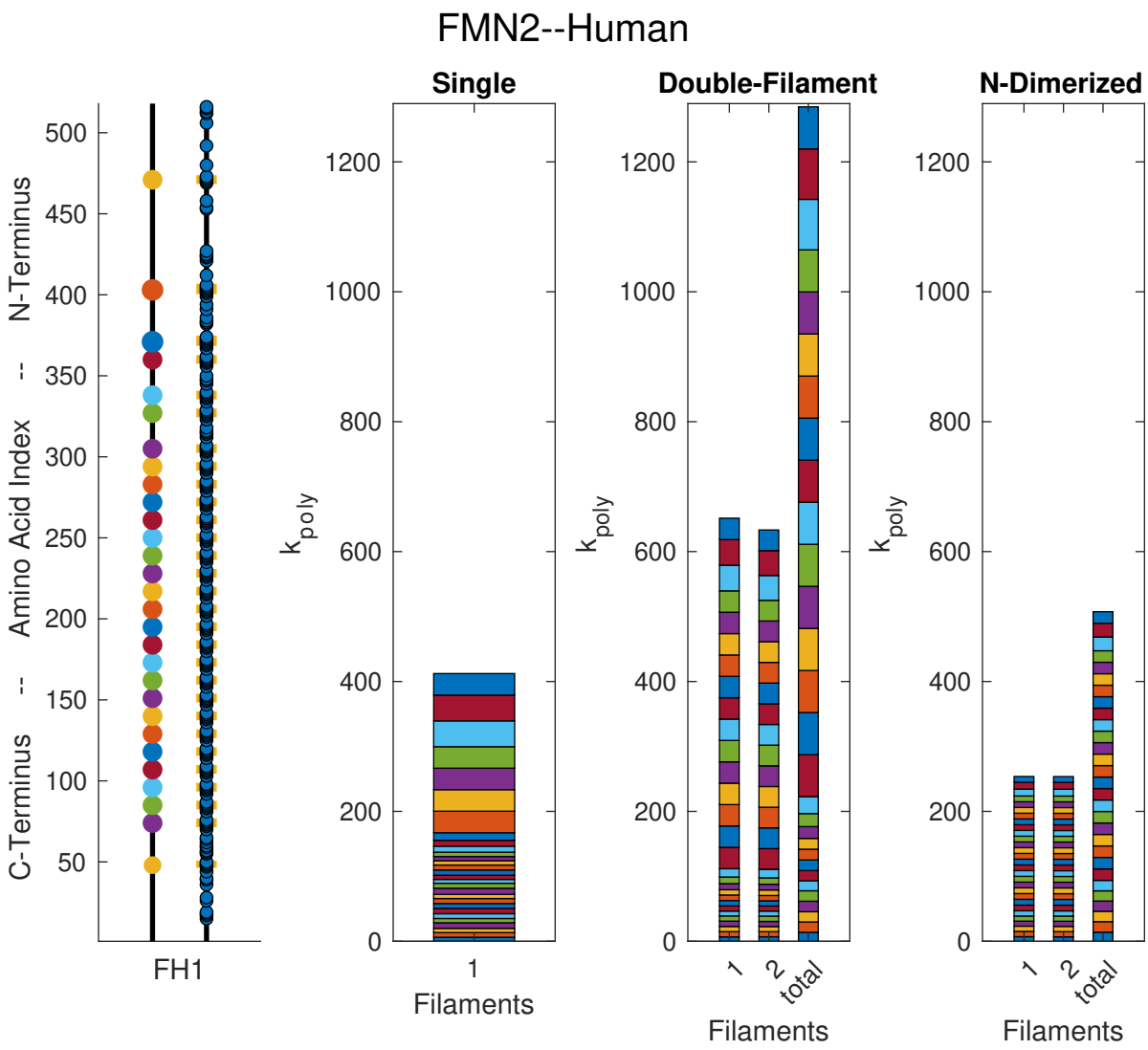

DAAM2--Human
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k_poly
Filaments
1
2
total

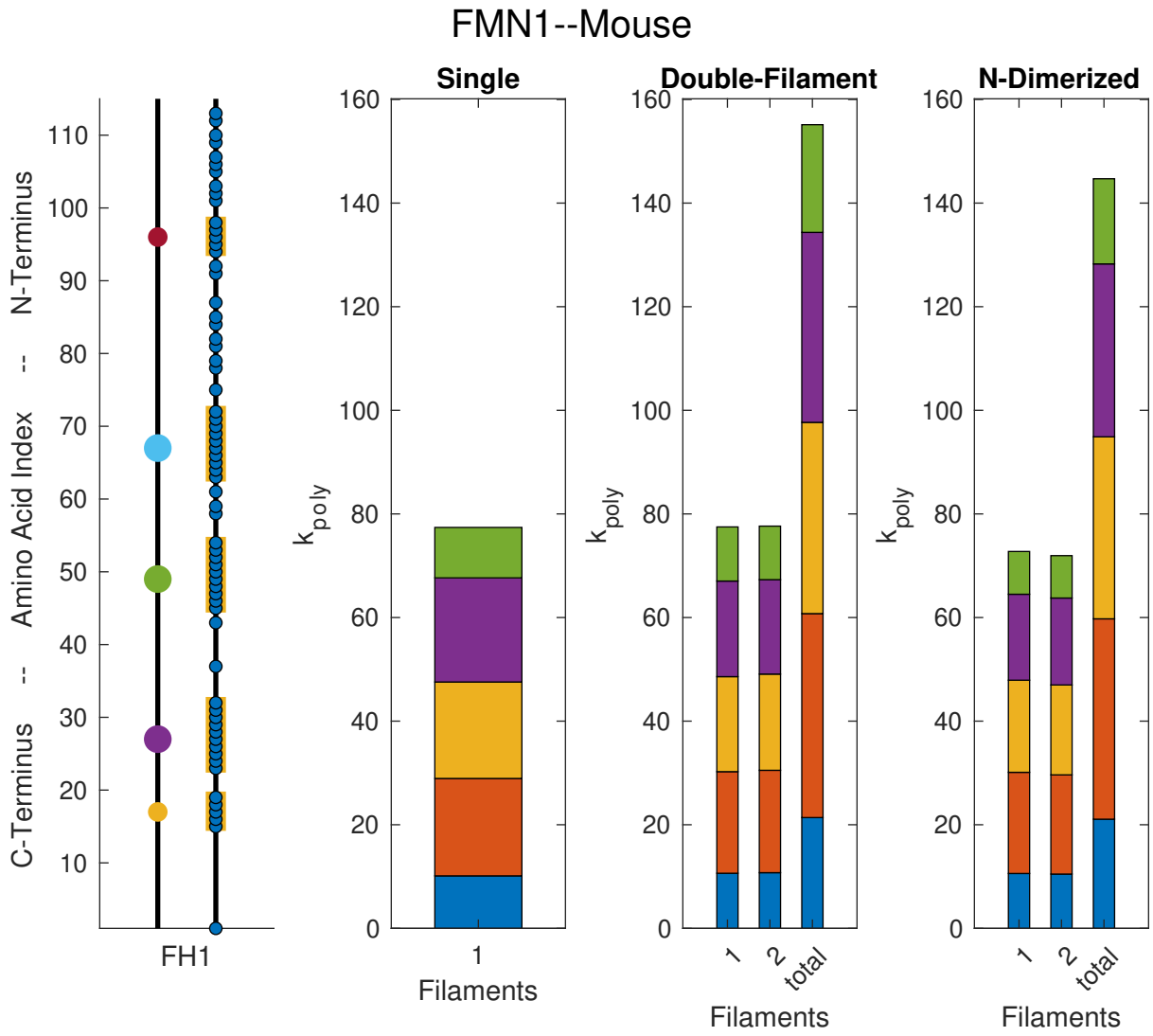

DAAM1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k_poly
Filaments
1
2
total

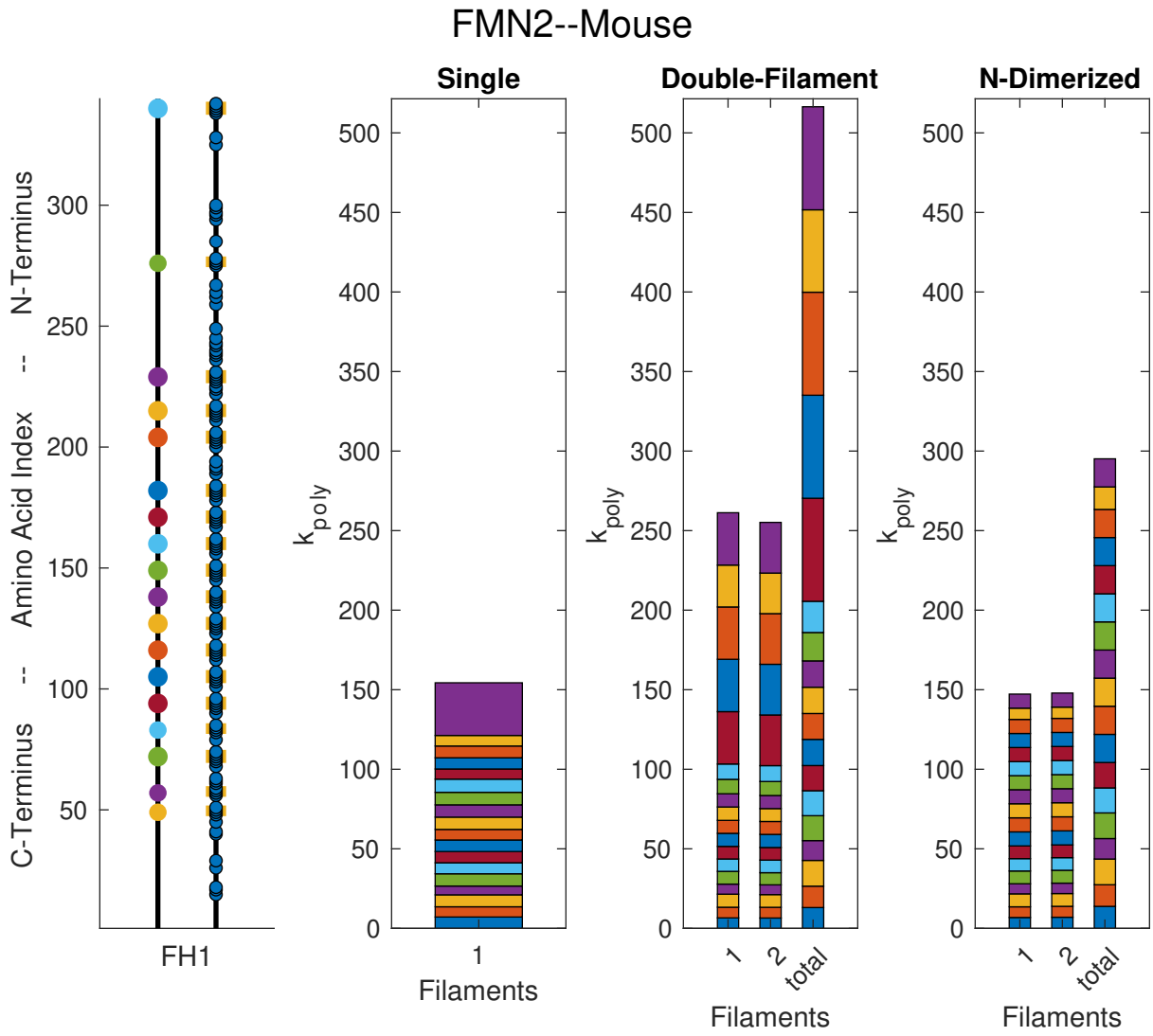

DAAM2--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k_poly
Filaments
1
2
total

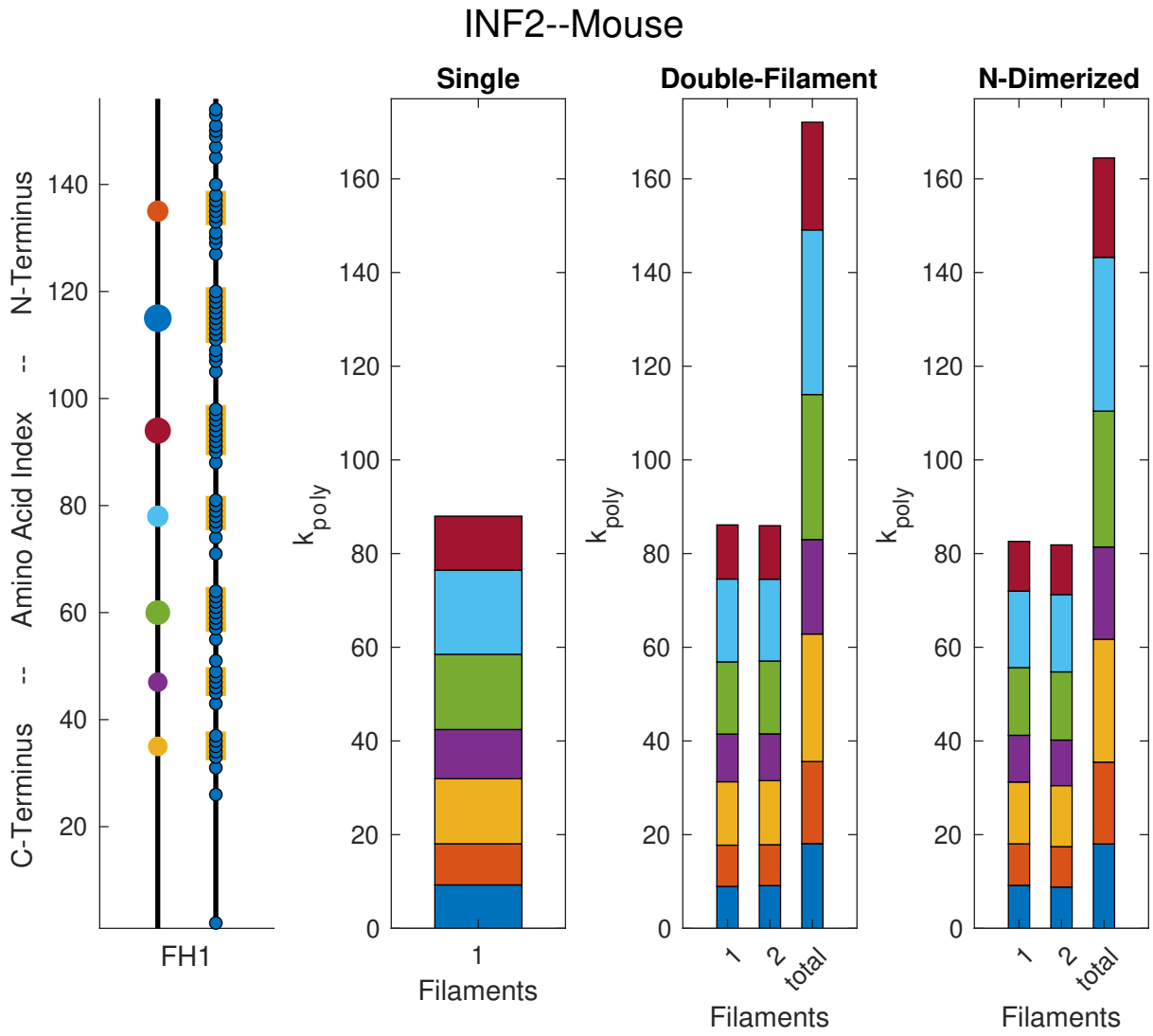

CAPU--FruitFly
C-Terminus -- Amino Acid Index -- N-Terminus
450
400
350
300
250
200
150
100
50
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
200
180
160
140
120
100
80
60
40
20
0
1
2
total
Filaments

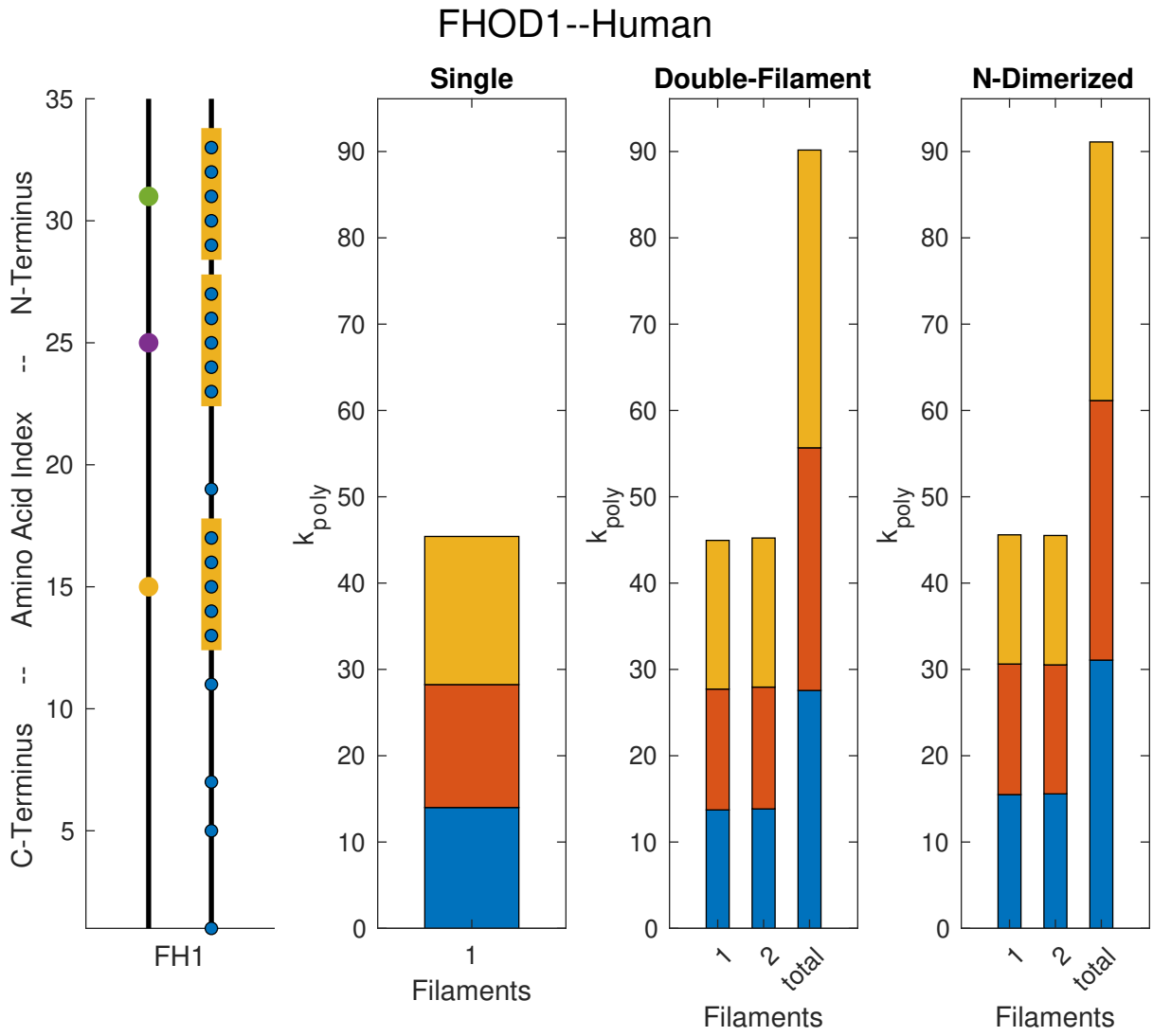

FMN1--Human
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
70
80
90
100
FH1
Single
Double-Filament
N-Dimerized
k poly
0
50
100
150
1
2
total
Filaments

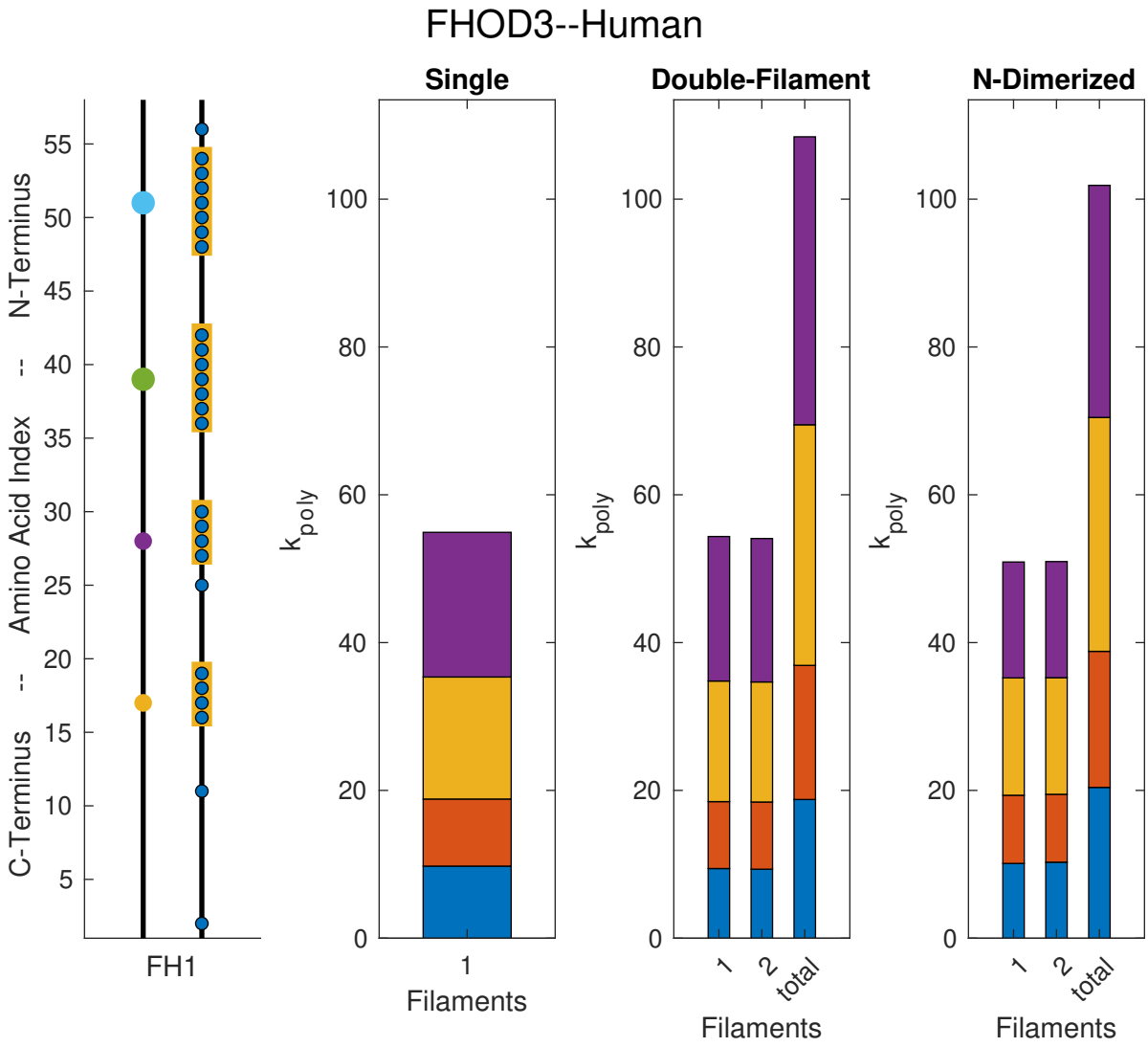

FMN2--Human
Single
Double-Filament
N-Dimerized
C-Terminus -- Amino Acid Index -- N-Terminus
50
100
150
200
250
300
350
400
450
500
FH1
$k_{poly}$
0
200
400
600
800
1000
1200
1
2
total
Filaments

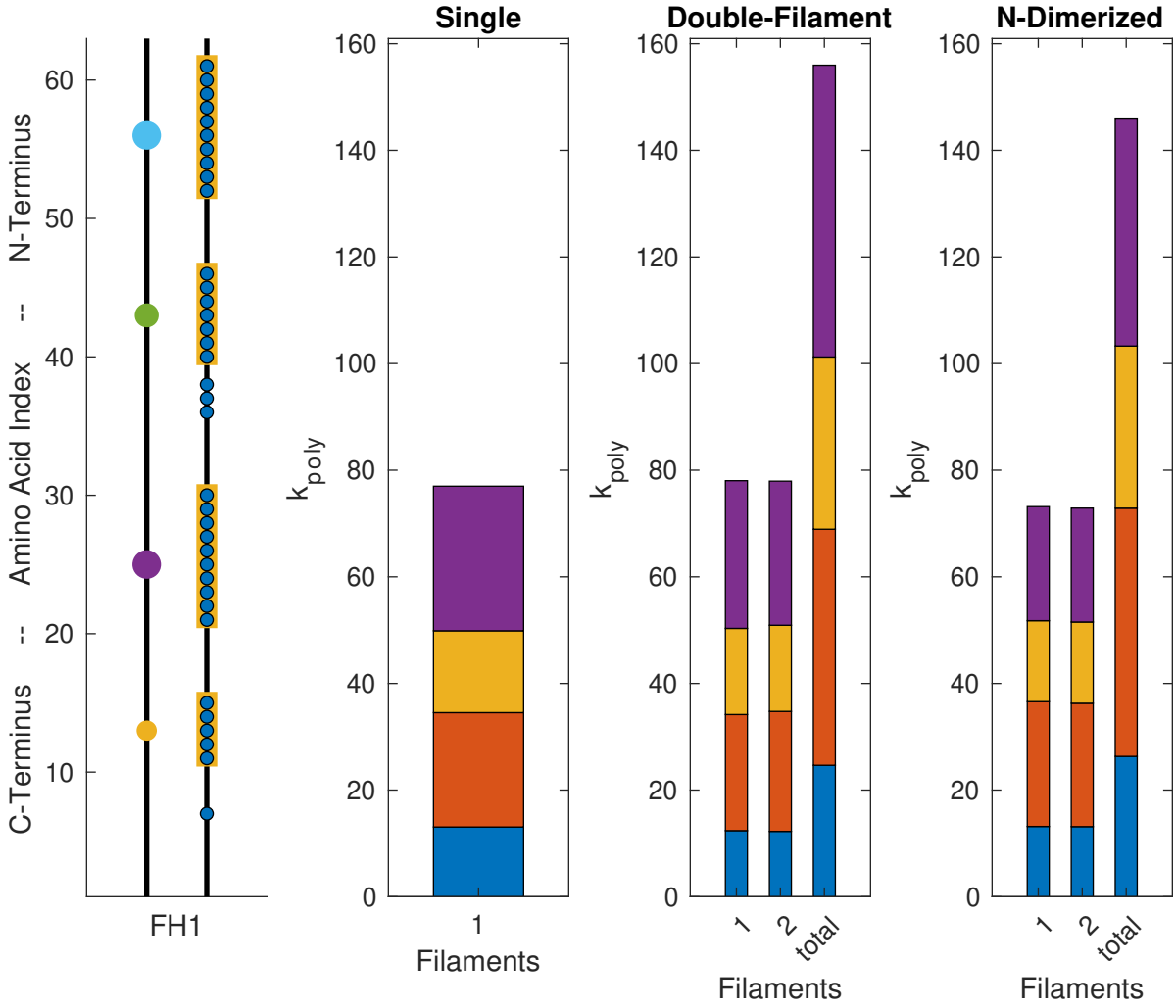

FMN1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k poly
Filaments
1
2
total

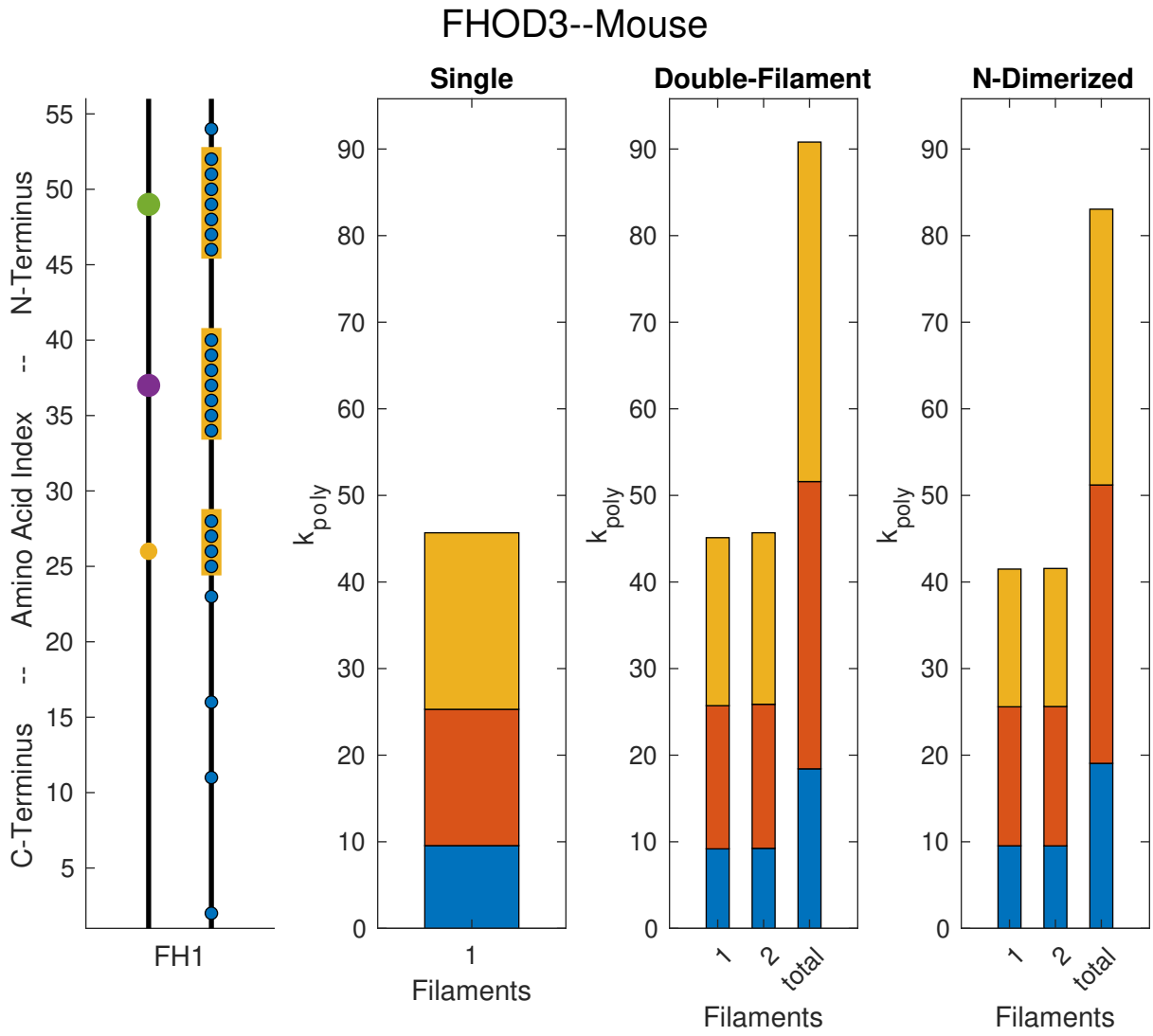

FMN2--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
50
100
150
200
250
300
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
50
100
150
200
250
300
350
400
450
500
1
2
total
Filaments

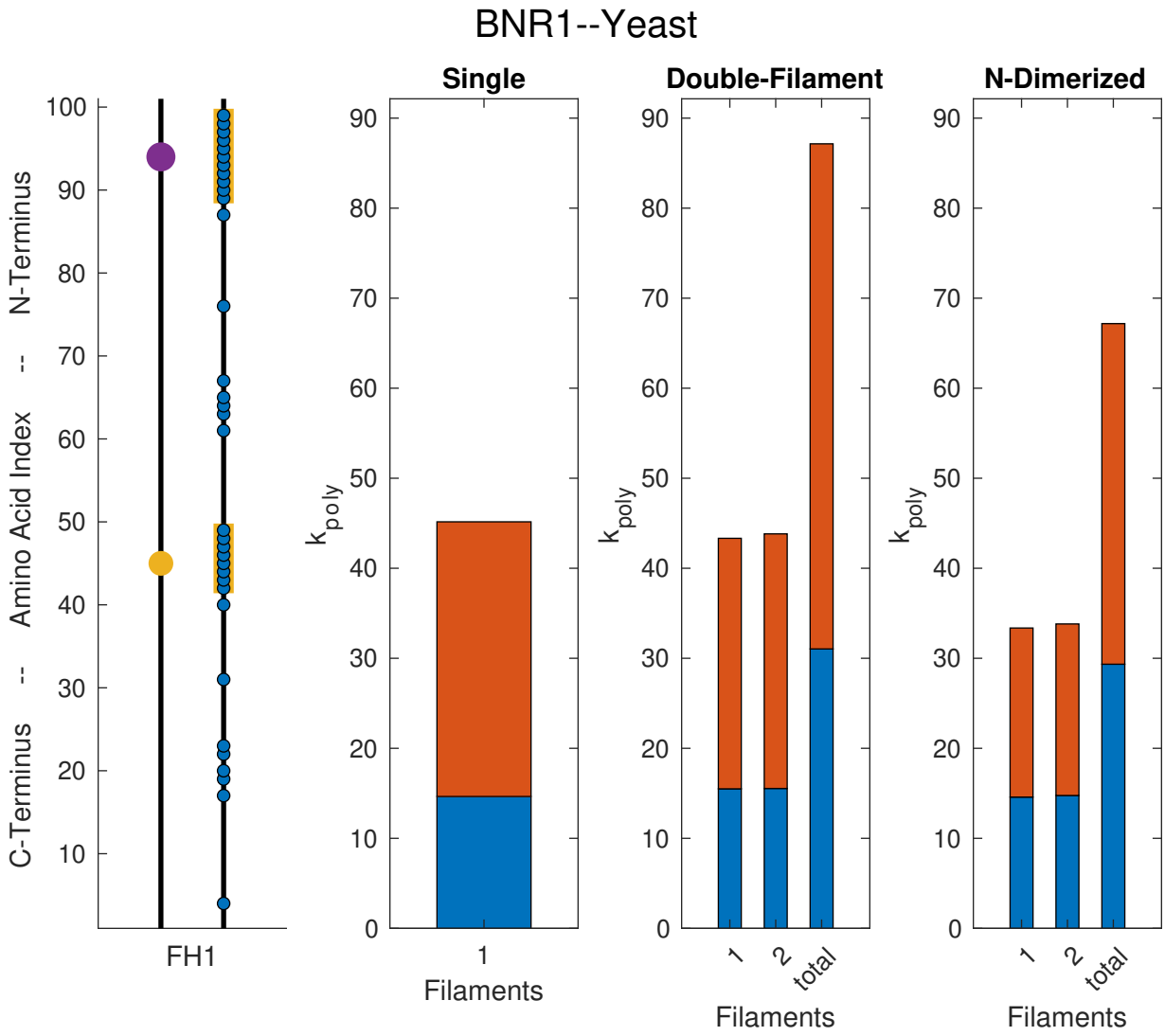

INF2--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
20
40
60
80
100
120
140
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
20
40
60
80
100
120
140
160
1
2
total
Filaments

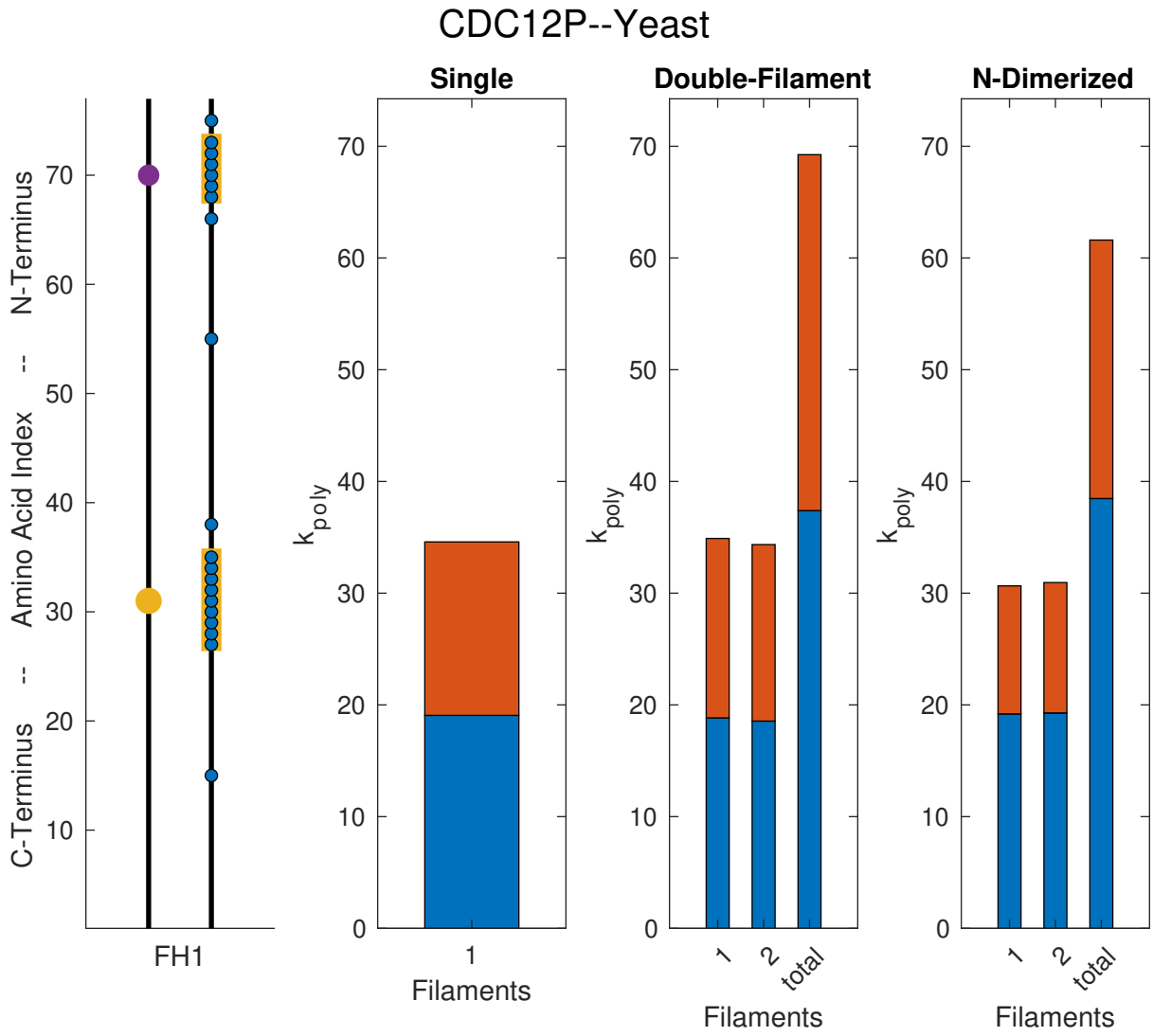

FHOD1--Human
C-Terminus -- Amino Acid Index -- N-Terminus
35
30
25
20
15
10
5
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
90
80
70
60
50
40
30
20
10
0
1
2
total
Filaments

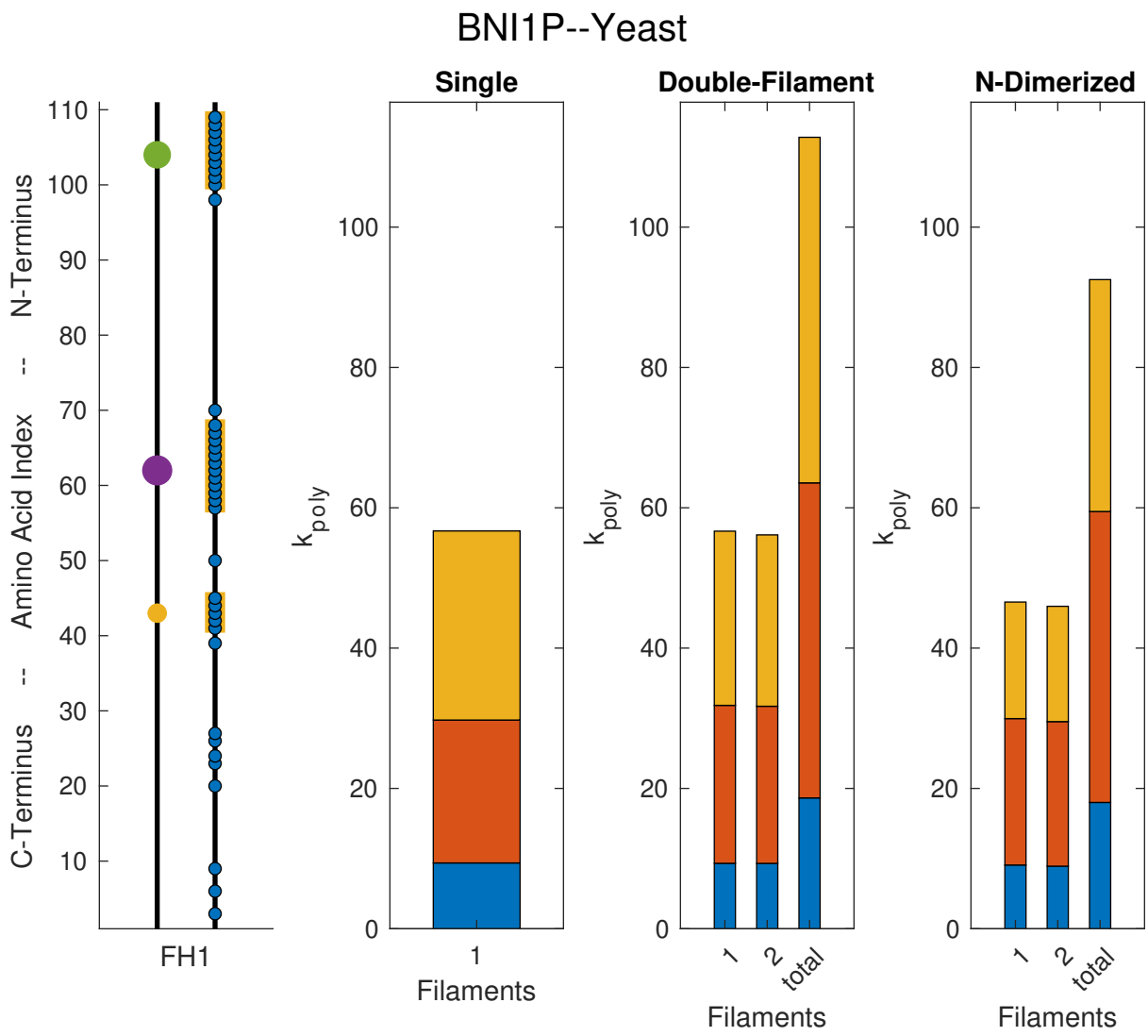

FHOD3--Human
C-Terminus -- Amino Acid Index -- N-Terminus
5
10
15
20
25
30
35
40
45
50
55
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
20
40
60
80
100
1
Filaments
1
2
total
Filaments
Filaments

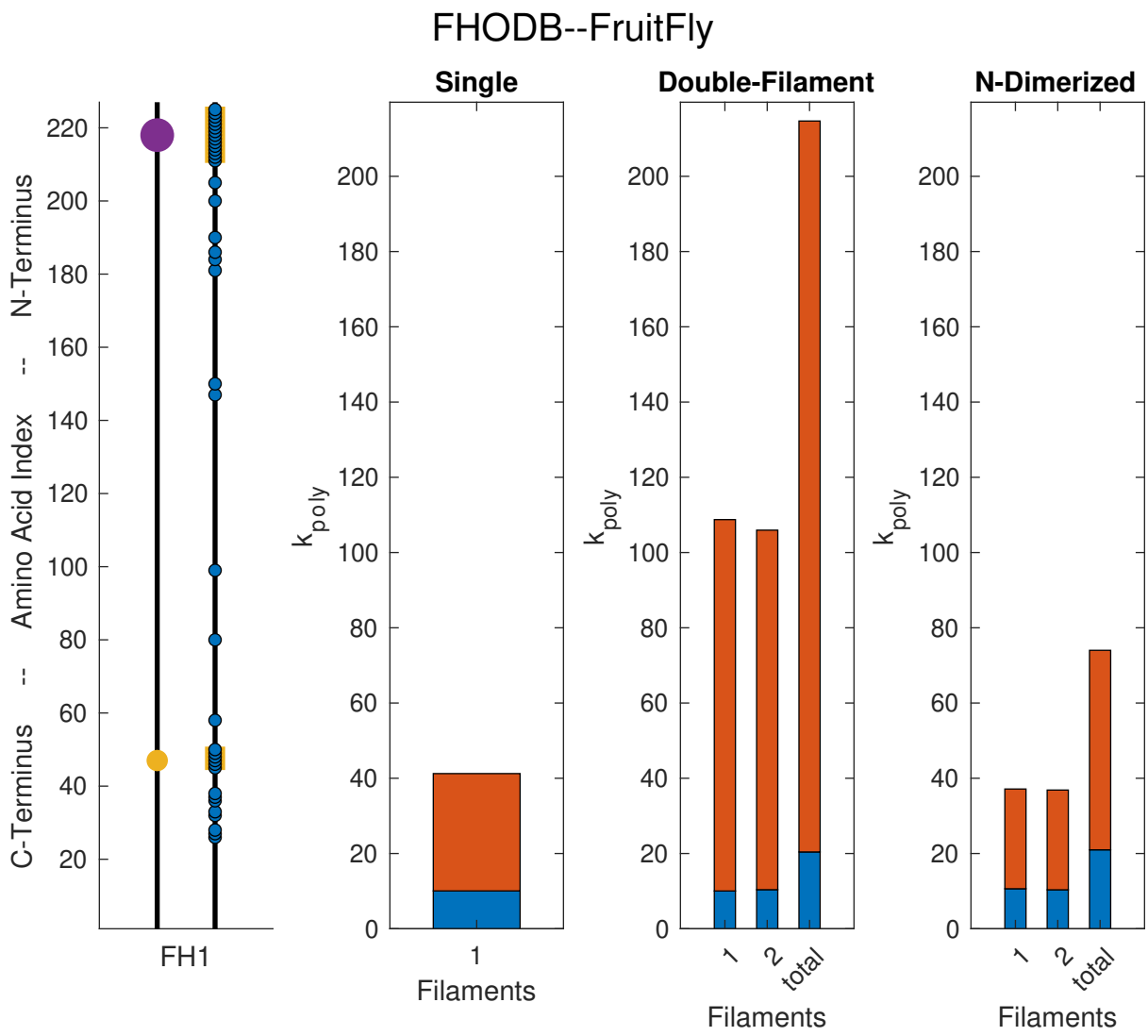

FHOD1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
FH1
Single
Double-Filament
N-Dimerized
k poly
0
20
40
60
80
100
120
140
160
1
Filaments
1
2
total
Filaments
Filaments

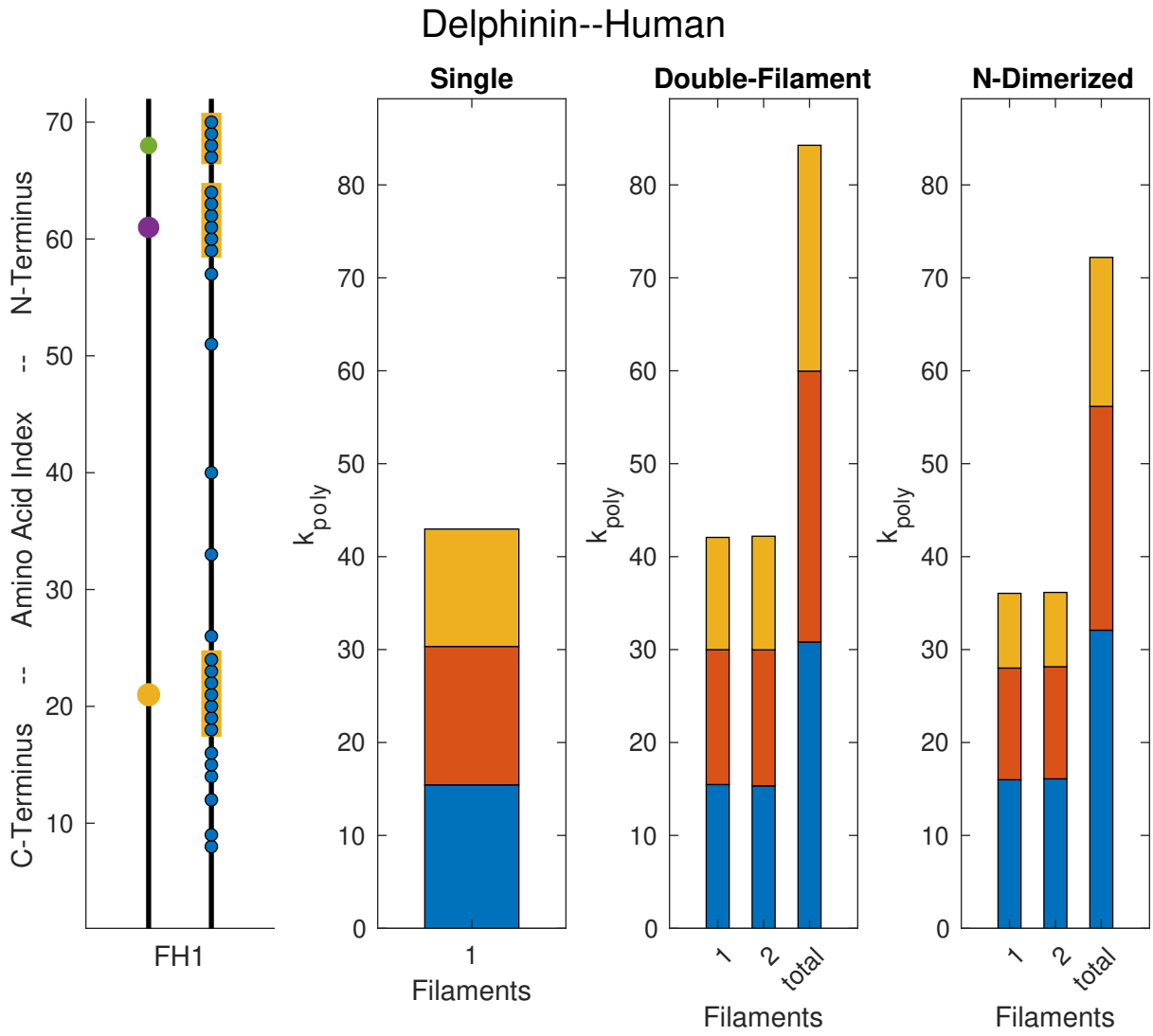

FHOD3--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k_poly
Filaments
1
2
total

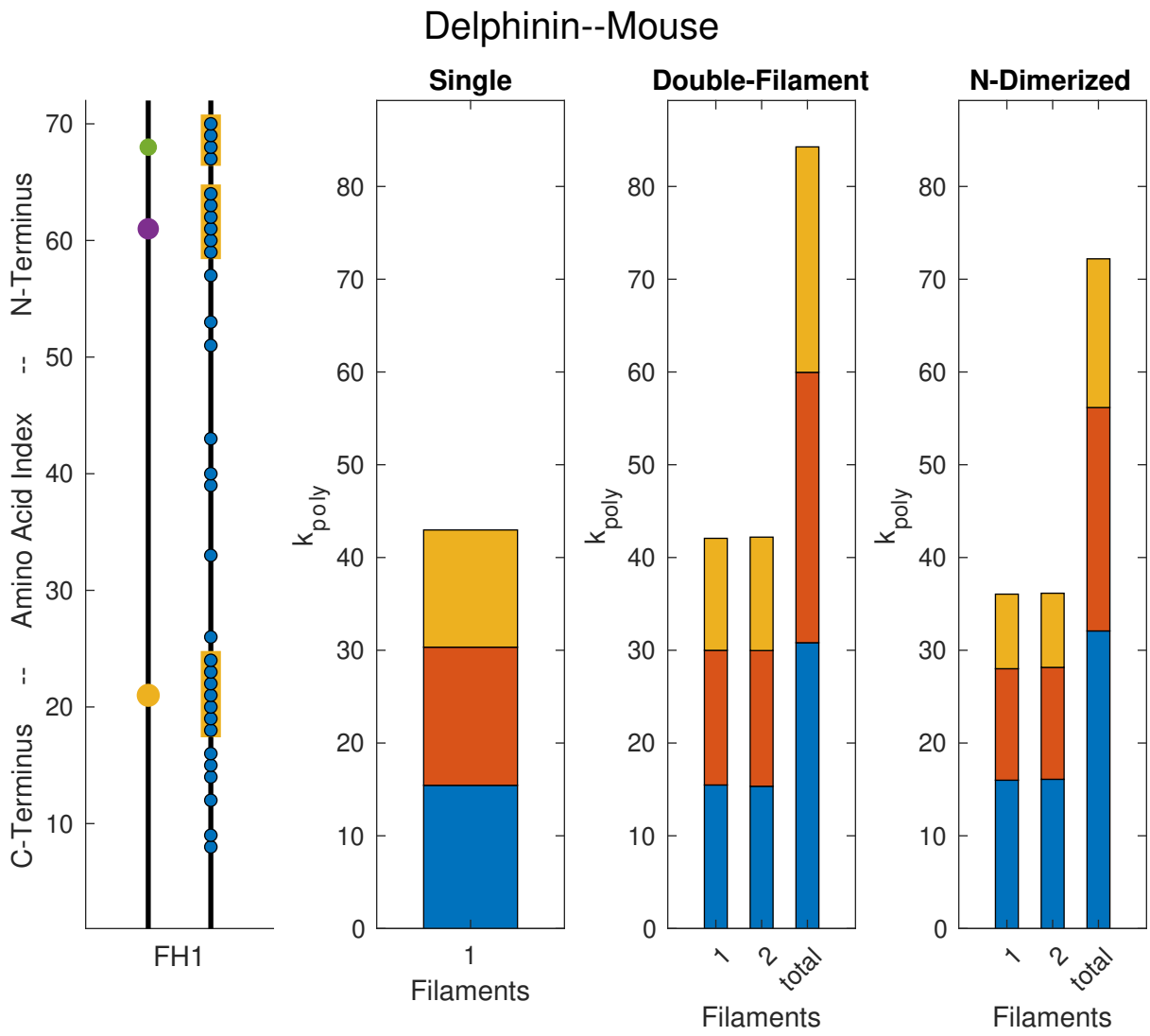

BNR1--Yeast
C-Terminus -- Amino Acid Index -- N-Terminus
100
90
80
70
60
50
40
30
20
10
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
10
20
30
40
50
60
70
80
90
1
2
total
Filaments

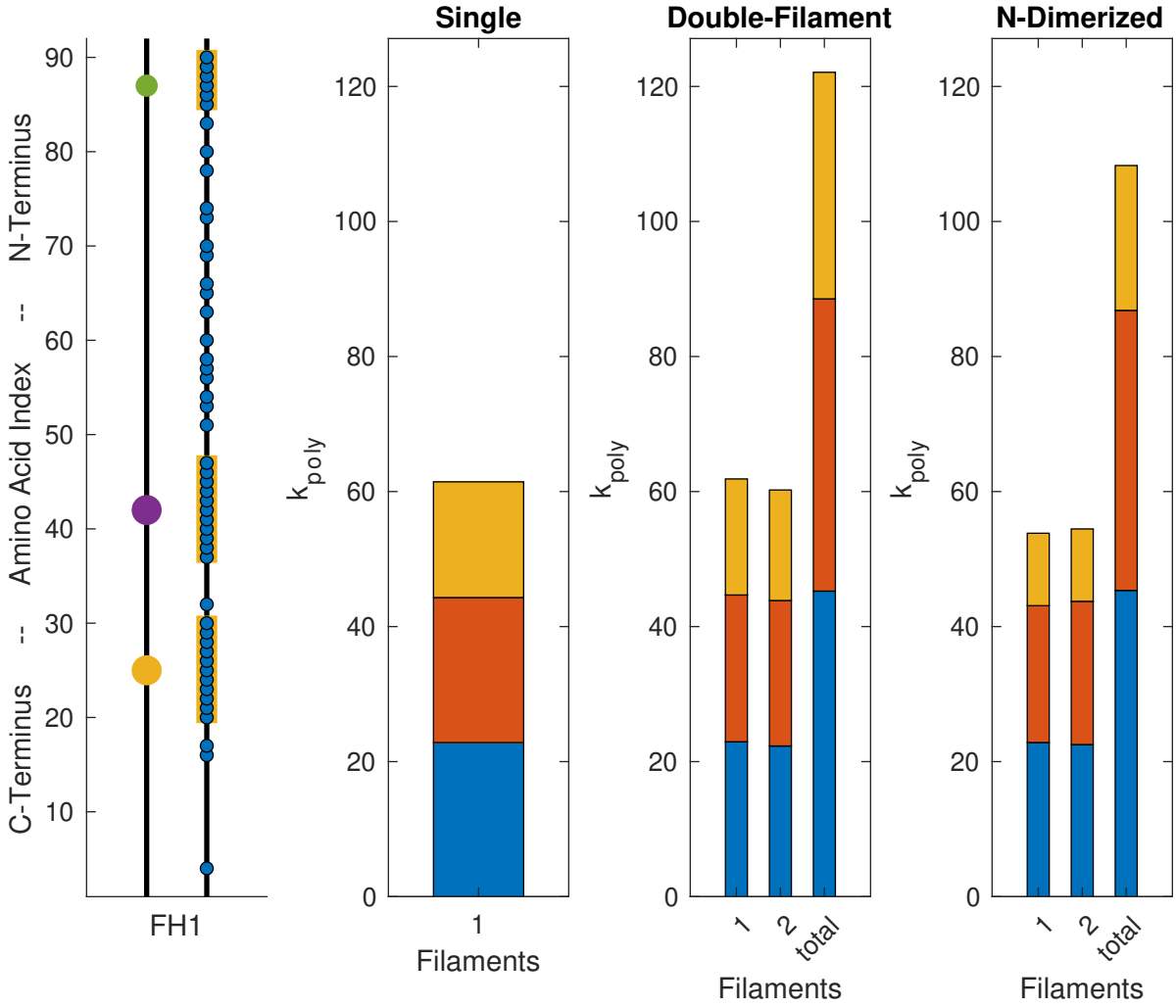

CDC12P--Yeast
Single
Double-Filament
N-Dimerized
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
$k_{poly}$
Filaments
1
2
total

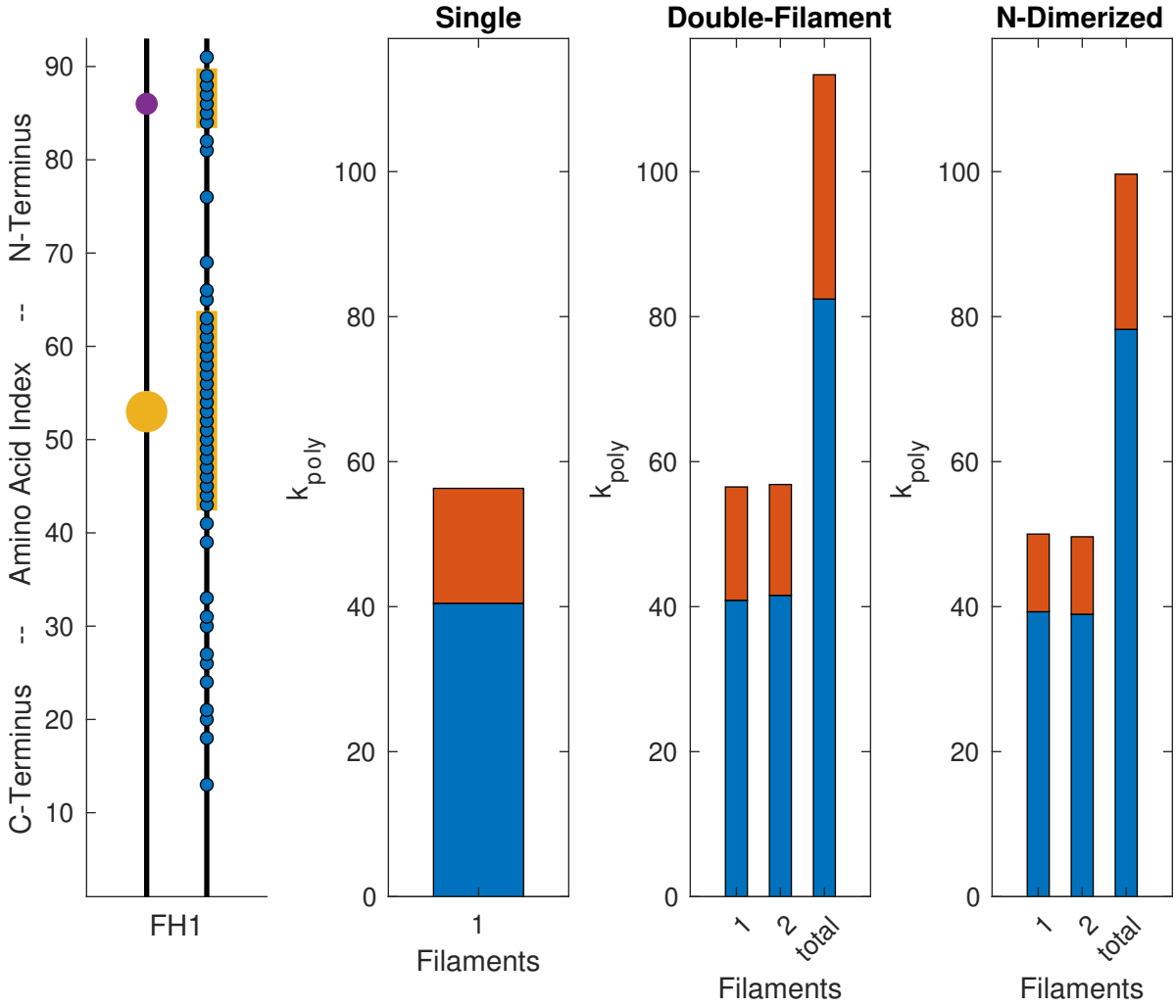

BNI1P--Yeast
C-Terminus -- Amino Acid Index -- N-Terminus
110
100
90
80
70
60
50
40
30
20
10
FH1
Single
Double-Filament
N-Dimerized
k_poly
0
20
40
60
80
100
1
2
total
Filaments

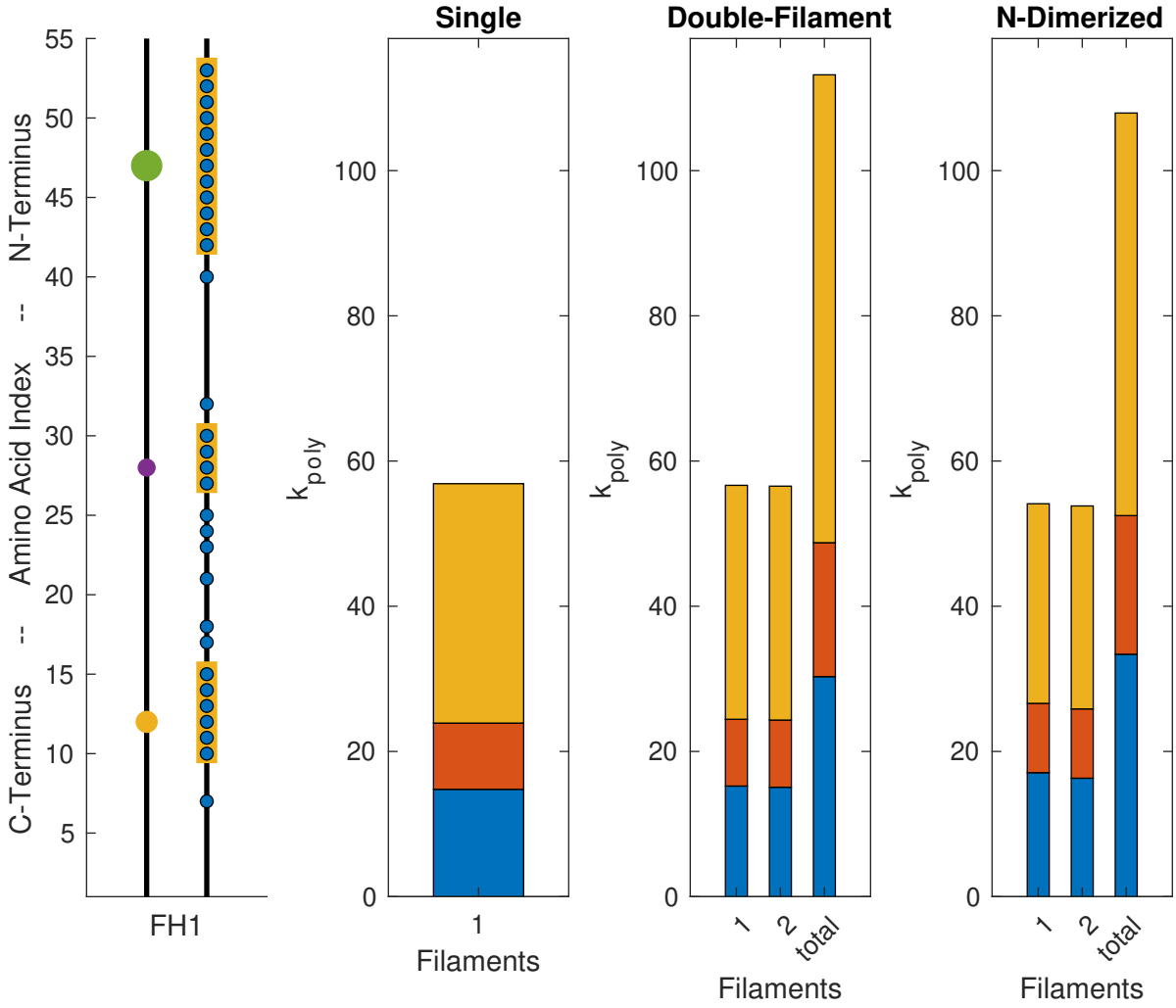

FHODB--FruitFly
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k poly
Filaments
1
2
total

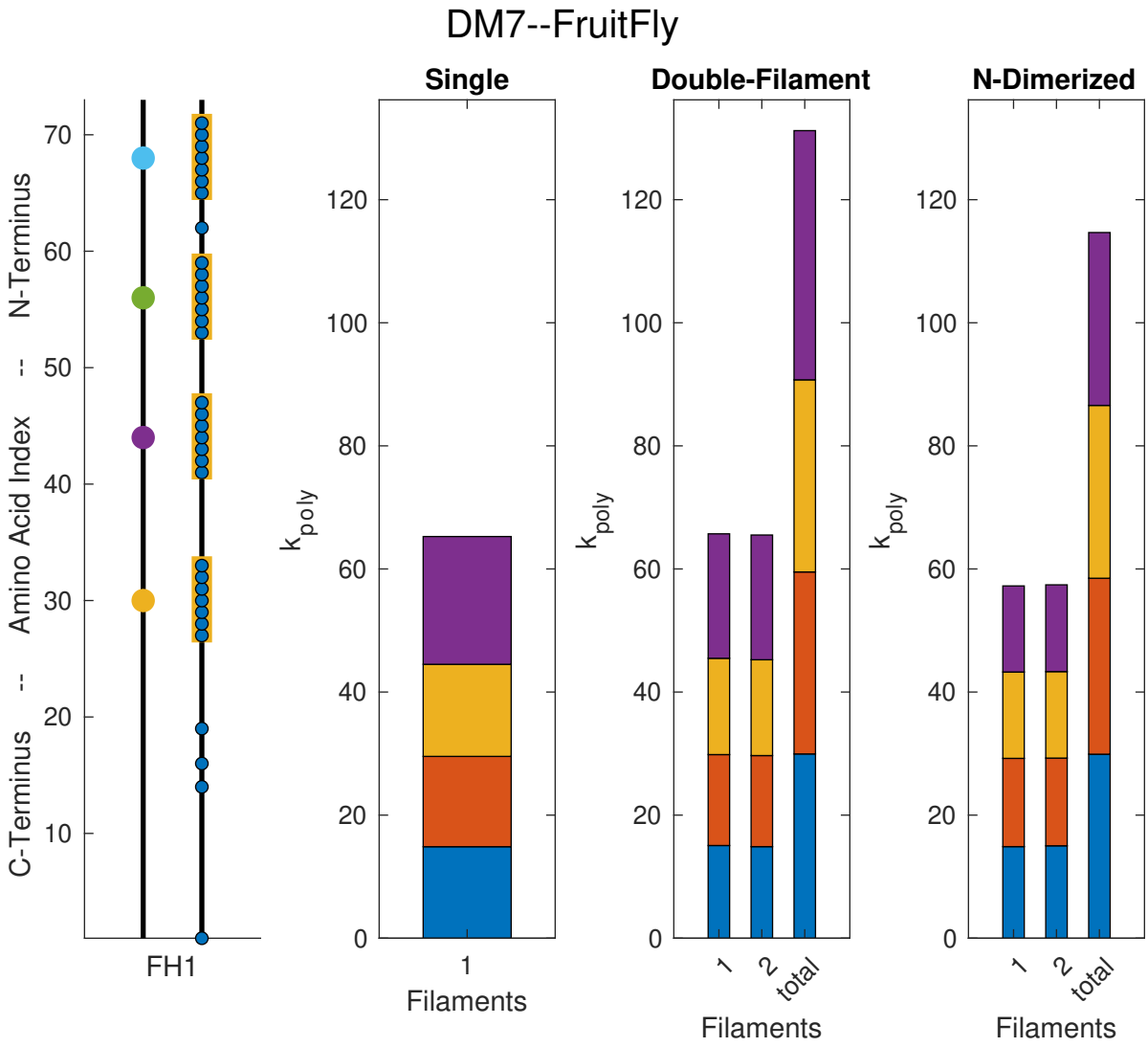

Delphinin--Human
Single
Double-Filament
N-Dimerized
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
$k_{poly}$
Filaments
1
2
total

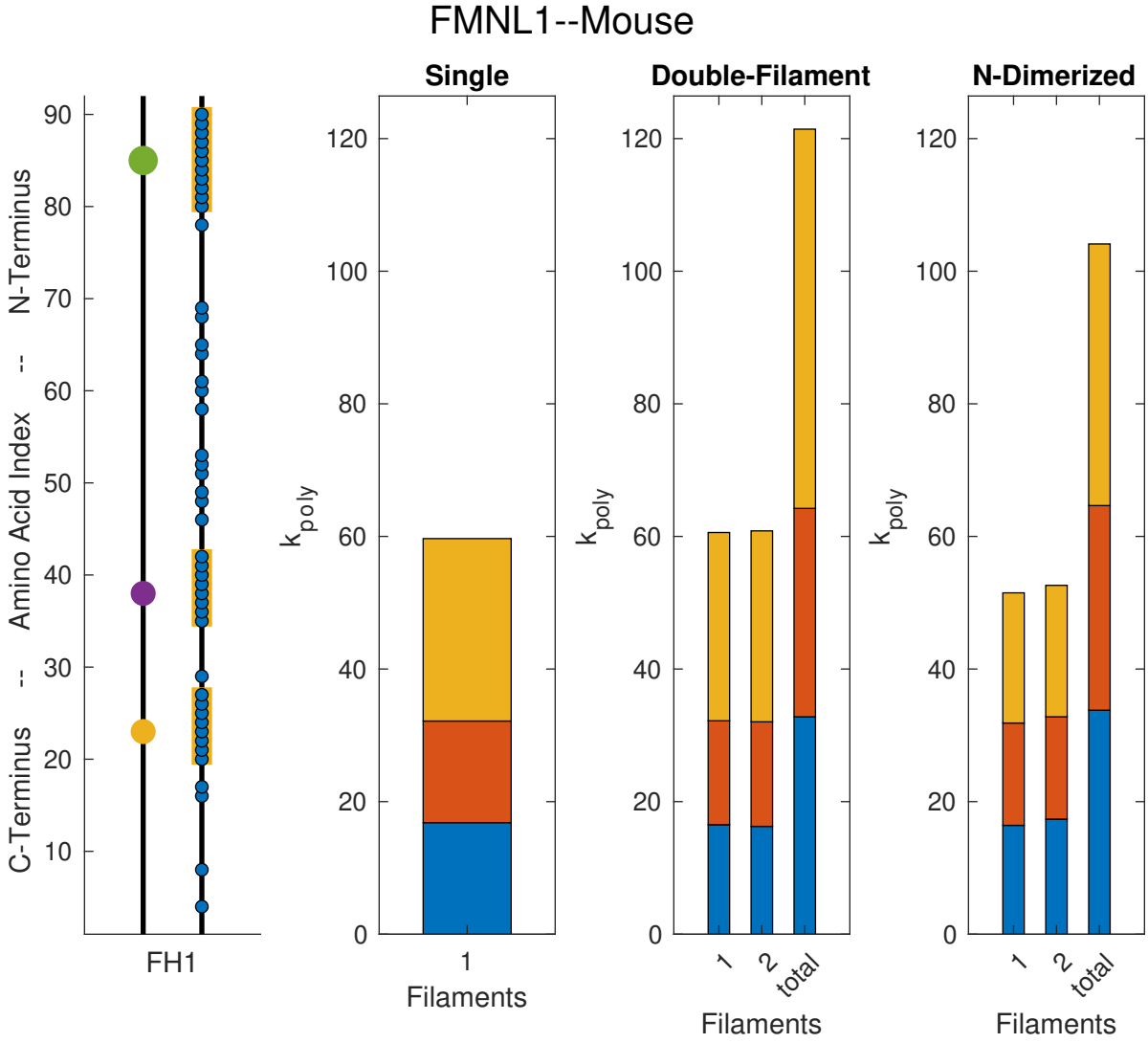

Delphinin--Mouse
Single
Double-Filament
N-Dimerized
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
$k_{poly}$
Filaments
1
2
total

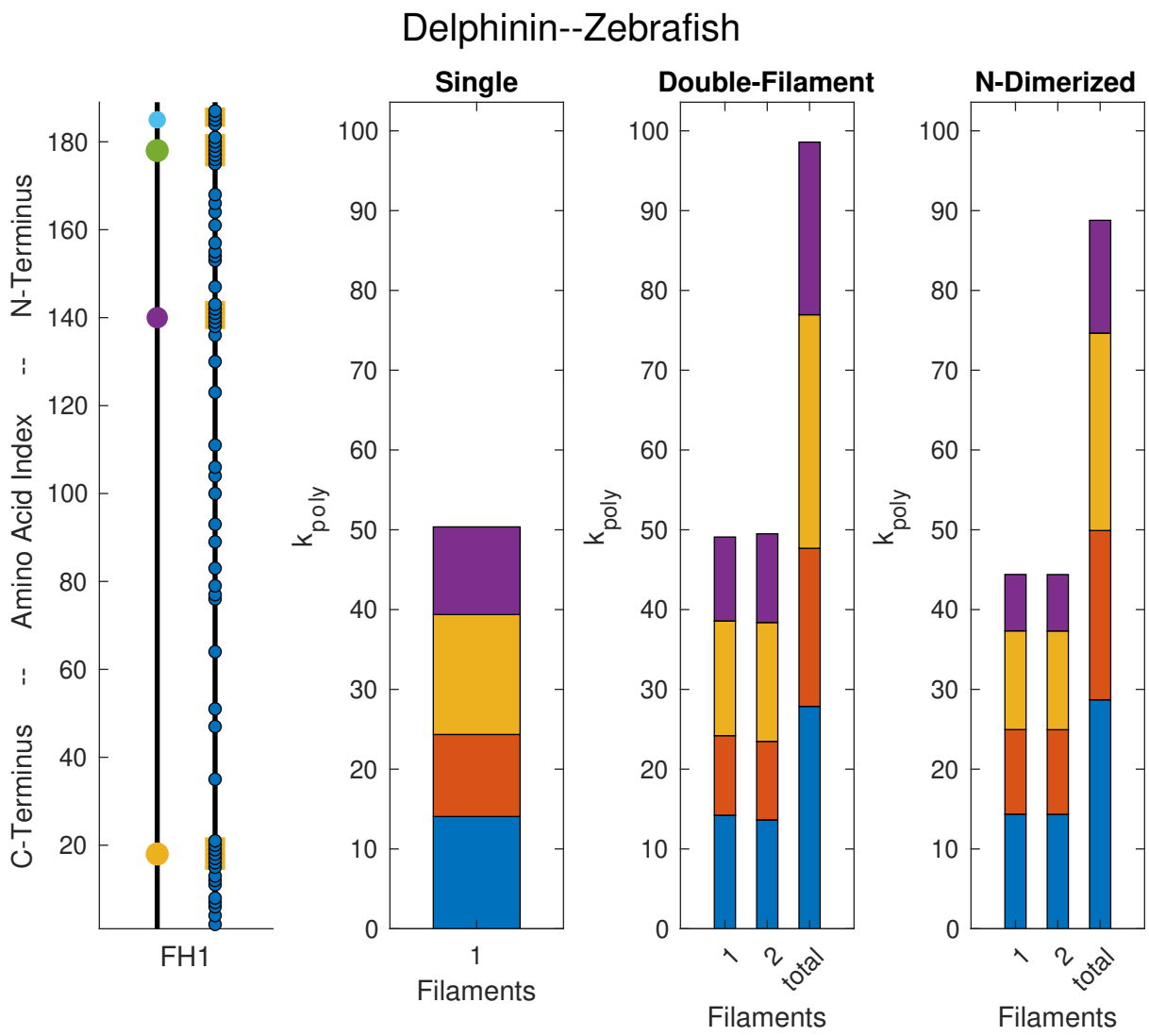

FMNL1--Human
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k poly
Filaments
1
2
total

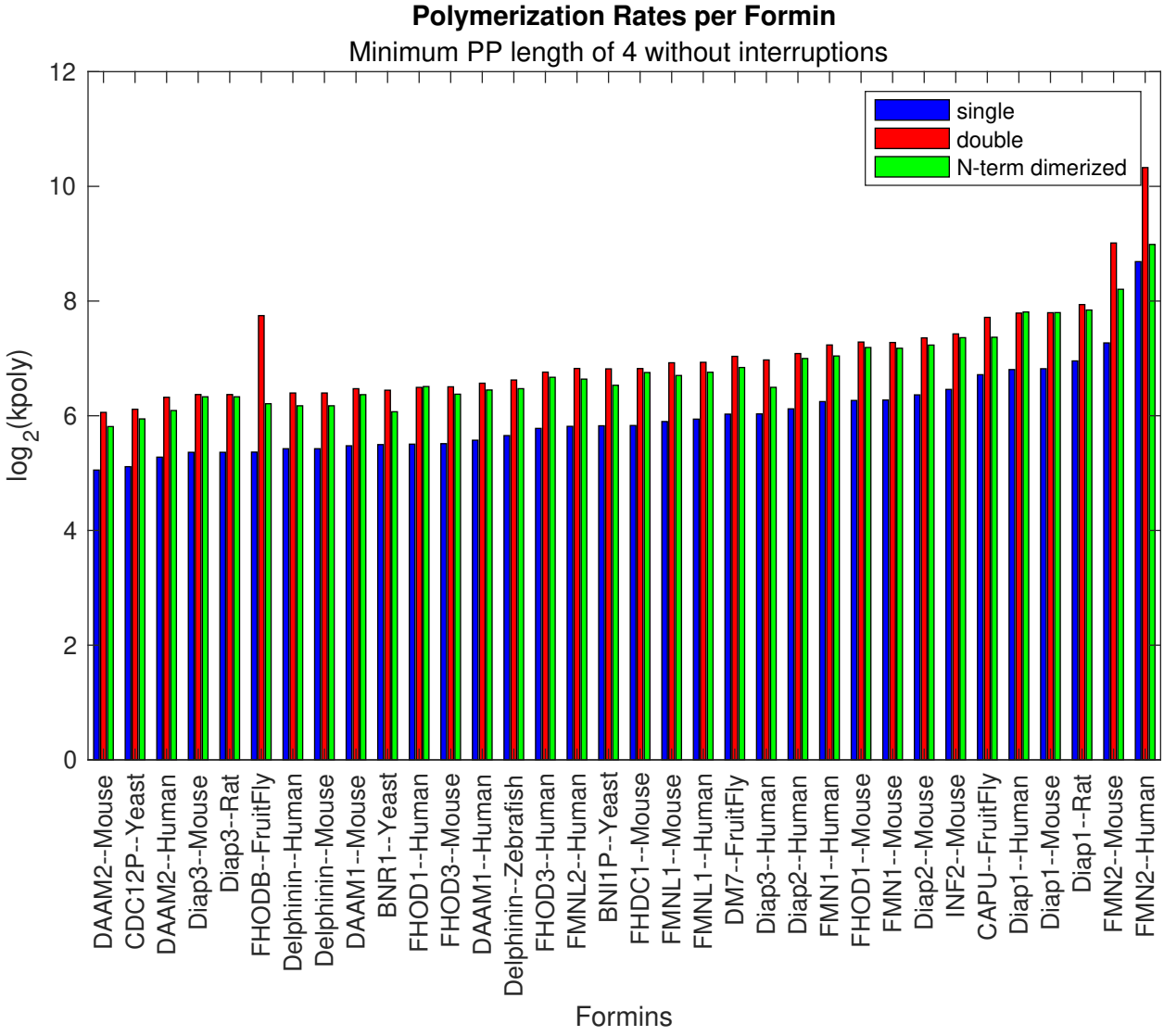

FMNL2--Human
C-Terminus -- Amino Acid Index -- N-Terminus
10
20
30
40
50
60
70
80
90
FH1
Single
Double-Filament
N-Dimerized
k poly
0
20
40
60
80
100
1
2
total
Filaments

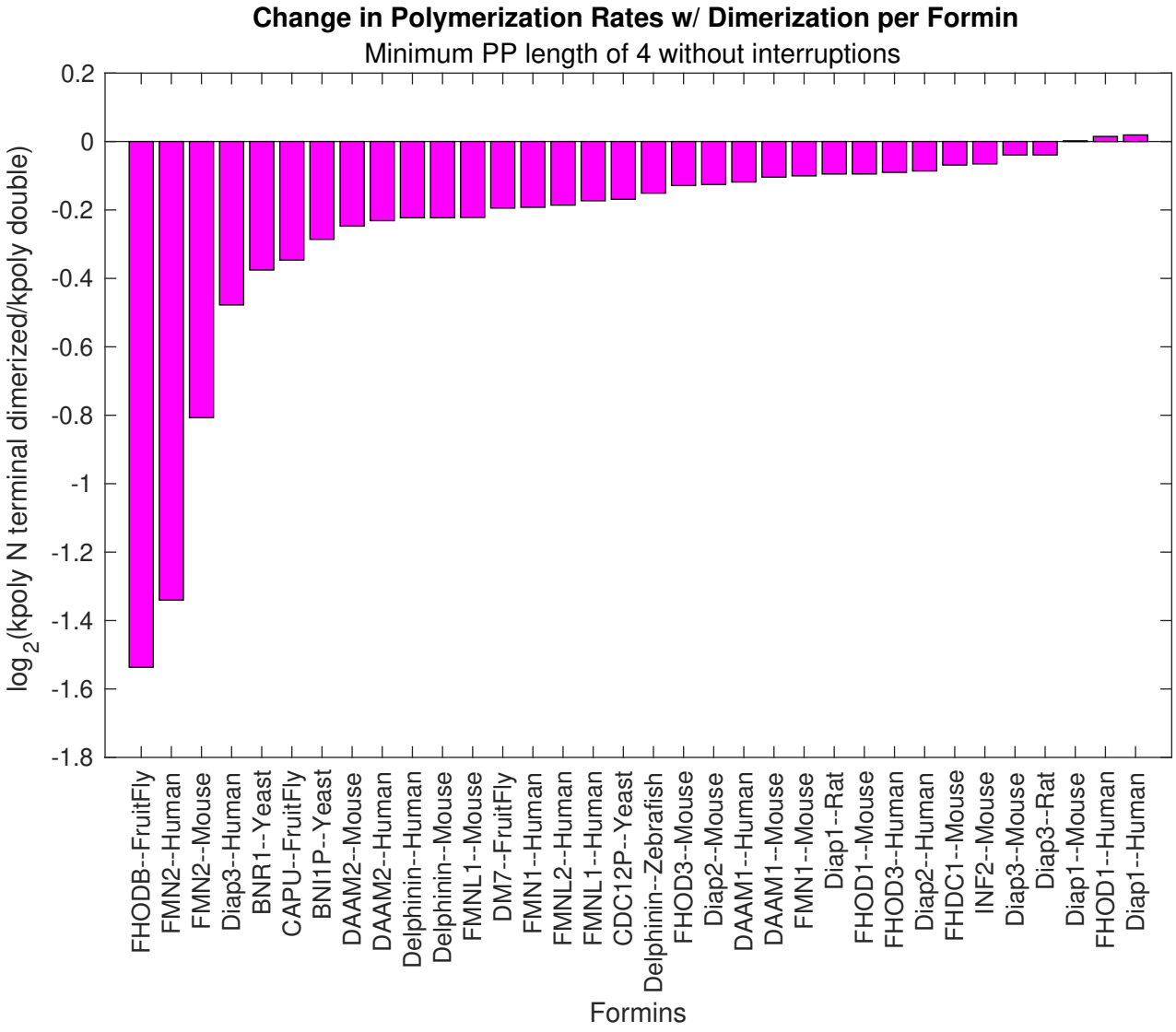

FHDC1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
55
50
45
40
35
30
25
20
15
10
5
FH1
Single
Double-Filament
N-Dimerized
k poly
100
80
60
40
20
0
1
2
total
Filaments

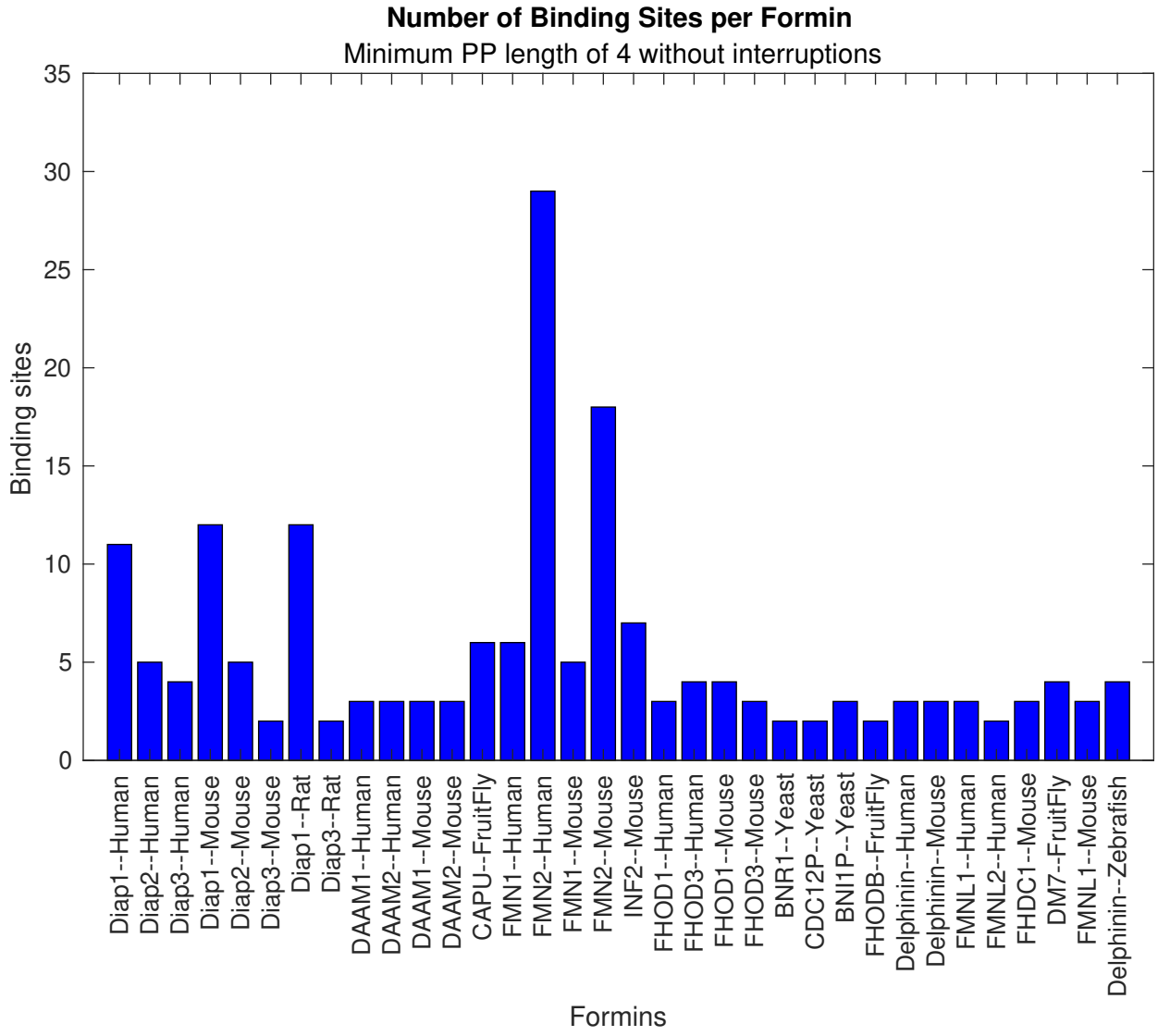

DM7--FruitFly
Single
Double-Filament
N-Dimerized
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
k poly
Filaments
1
2
total

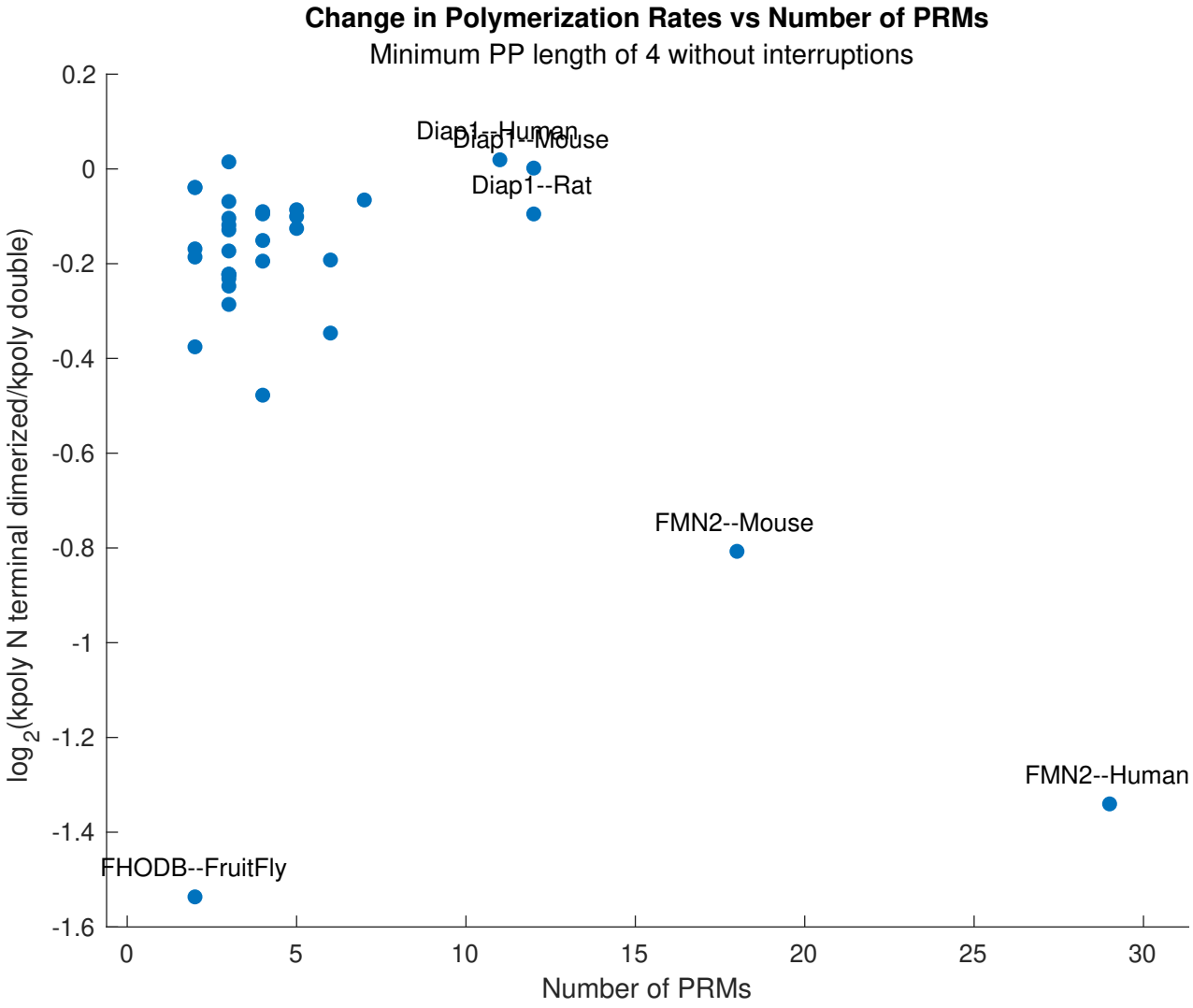

FMNL1--Mouse
C-Terminus -- Amino Acid Index -- N-Terminus
FH1
Single
Double-Filament
N-Dimerized
k poly
Filaments
1
2
total

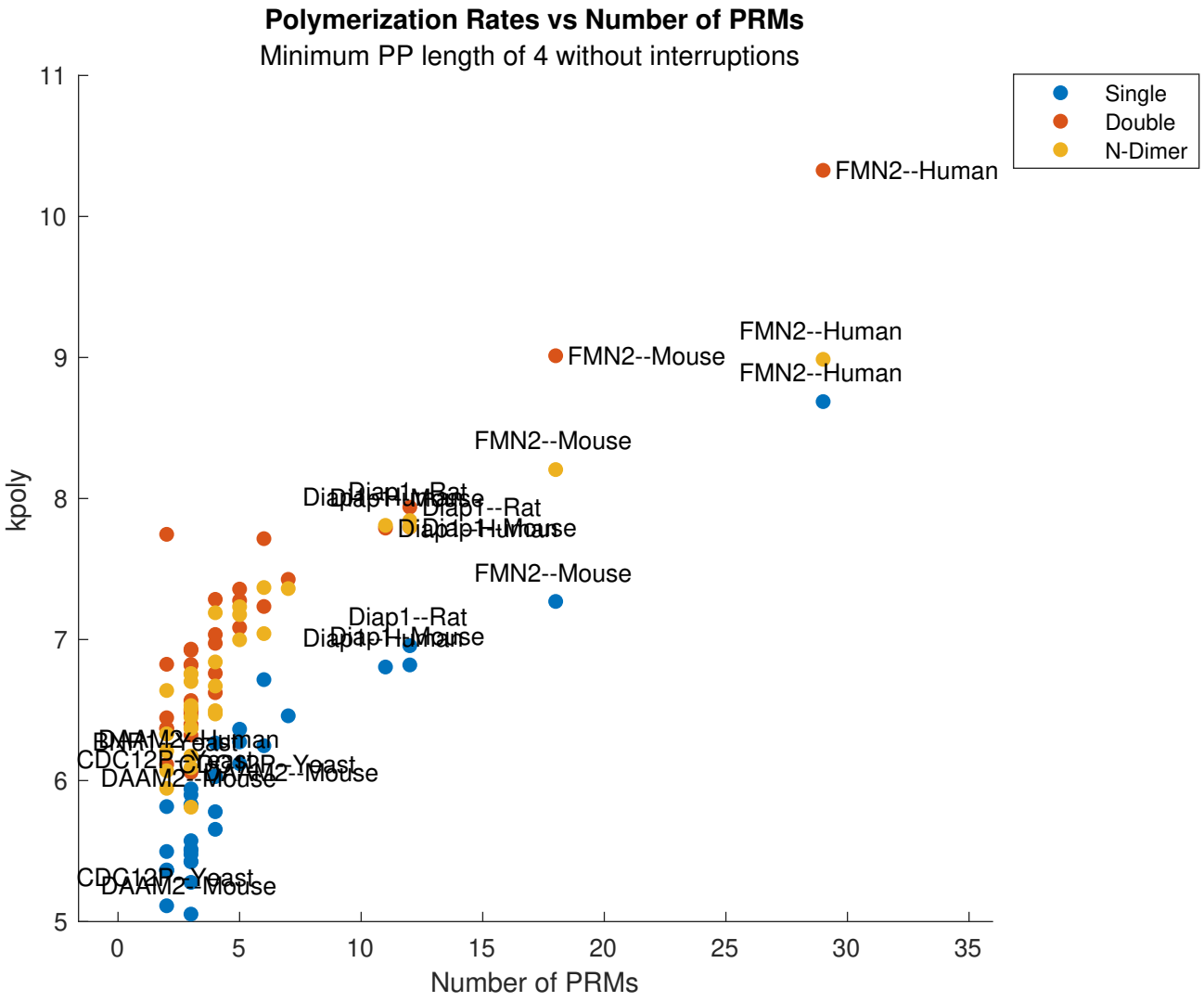

Delphinin--Zebrafish
C-Terminus -- Amino Acid Index -- N-Terminus
20
40
60
80
100
120
140
160
180
FH1
Single
Double-Filament
N-Dimerized
$k_{poly}$
0
10
20
30
40
50
60
70
80
90
100
1
2
total
Filaments

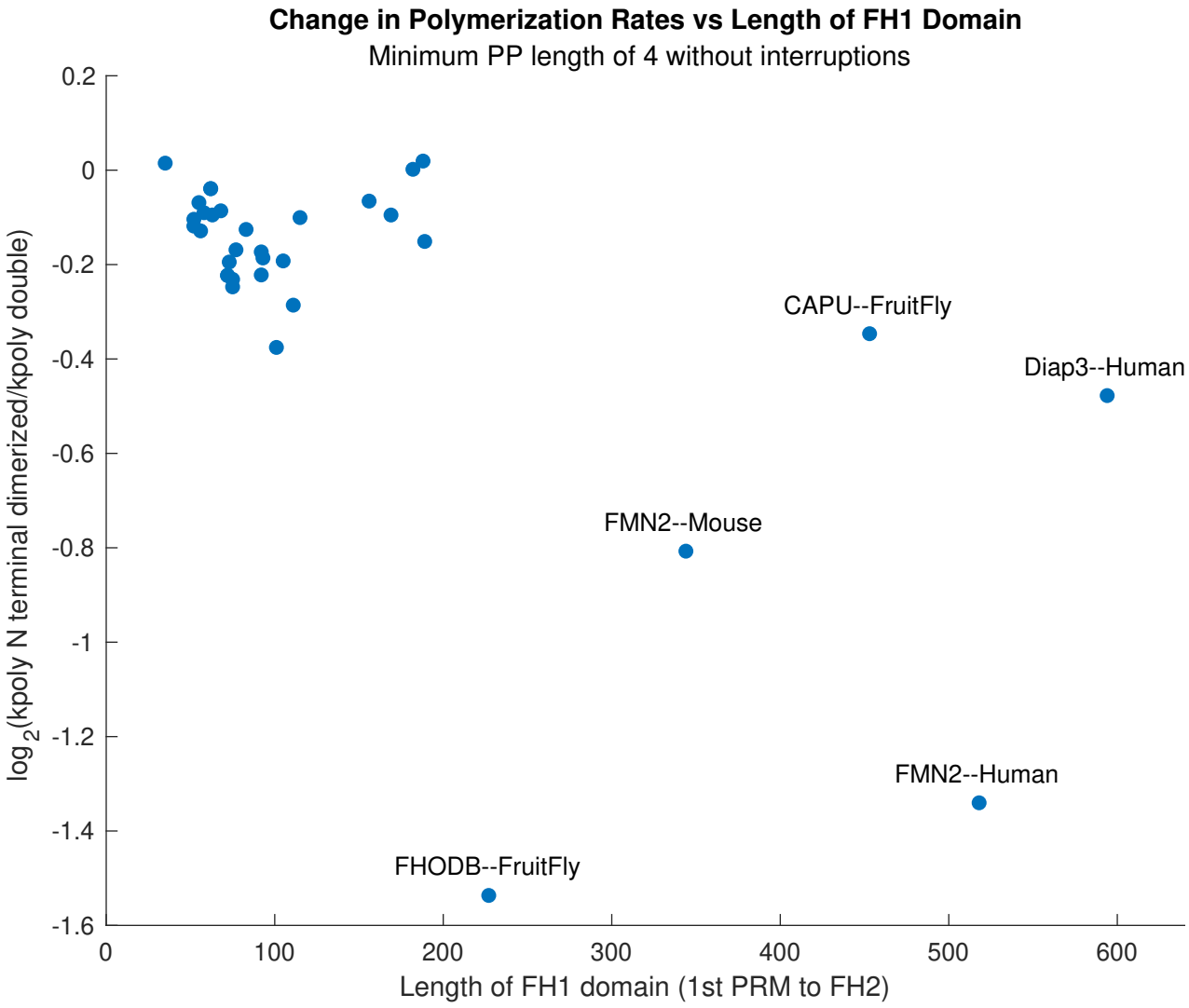

Polymerization Rates per Formin
Minimum PP length of 4 without interruptions
single
double
N-term dimerized
log2(kpoly)
0
2
4
6
8
10
12
DAAM2--Mouse
CDC12P--Yeast
DAAM2--Human
Diap3--Mouse
Diap3--Rat
FHODB--FruitFly
Delphinin--Human
Delphinin--Mouse
DAAM1--Mouse
BNR1--Yeast
FHOD1--Human
FHOD3--Mouse
DAAM1--Human
Delphinin--Zebrafish
FHOD3--Human
FMNL2--Human
BNI1P--Yeast
FHDC1--Mouse
FMNL1--Mouse
FMNL1--Human
DM7--FruitFly
Diap3--Human
Diap2--Human
FMN1--Human
FHOD1--Mouse
FMN1--Mouse
Diap2--Mouse
INF2--Mouse
CAPU--FruitFly
Diap1--Human
Diap1--Mouse
Diap1--Rat
FMN2--Mouse
FMN2--Human
Formins

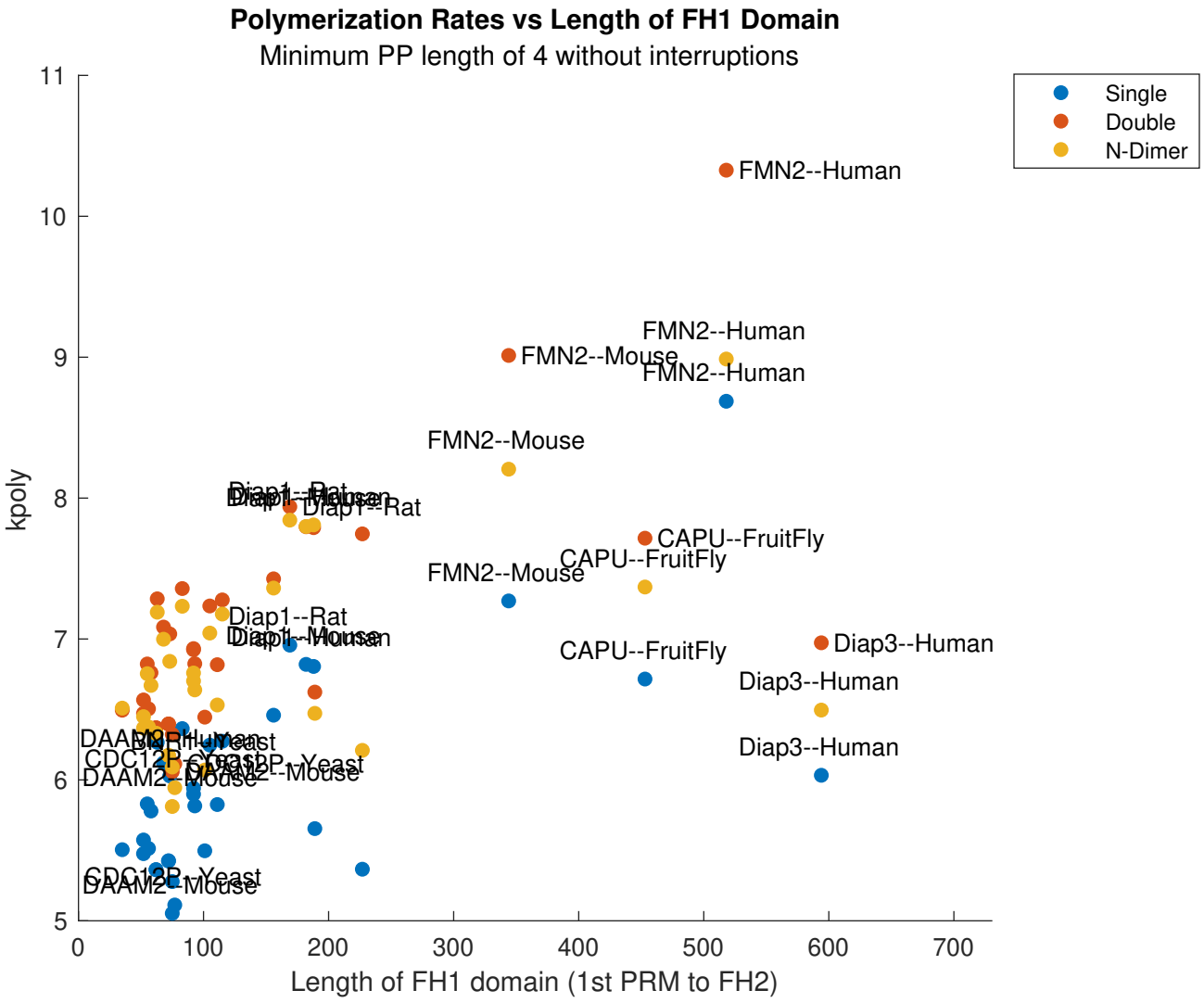

Change in Polymerization Rates w/ Dimerization per Formin
Minimum PP length of 4 without interruptions
log2(kpoly N terminal dimerized/kpoly double)
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
-1.8
FHODB--FruitFly
FMN2--Human
FMN2--Mouse
Diap3--Human
BNR1--Yeast
CAPU--FruitFly
BNI1P--Yeast
DAAM2--Mouse
DAAM2--Human
Delphinin--Human
Delphinin--Mouse
FMNL1--Mouse
DM7--FruitFly
FMN1--Human
FMNL2--Human
FMNL1--Human
CDC12P--Yeast
Delphinin--Zebrafish
FHOD3--Mouse
Diap2--Mouse
DAAM1--Human
DAAM1--Mouse
FMN1--Mouse
Diap1--Rat
FHOD1--Mouse
FHOD3--Human
Diap2--Human
FHDC1--Mouse
INF2--Mouse
Diap3--Mouse
Diap3--Rat
Diap1--Mouse
FHOD1--Human
Diap1--Human
Formins

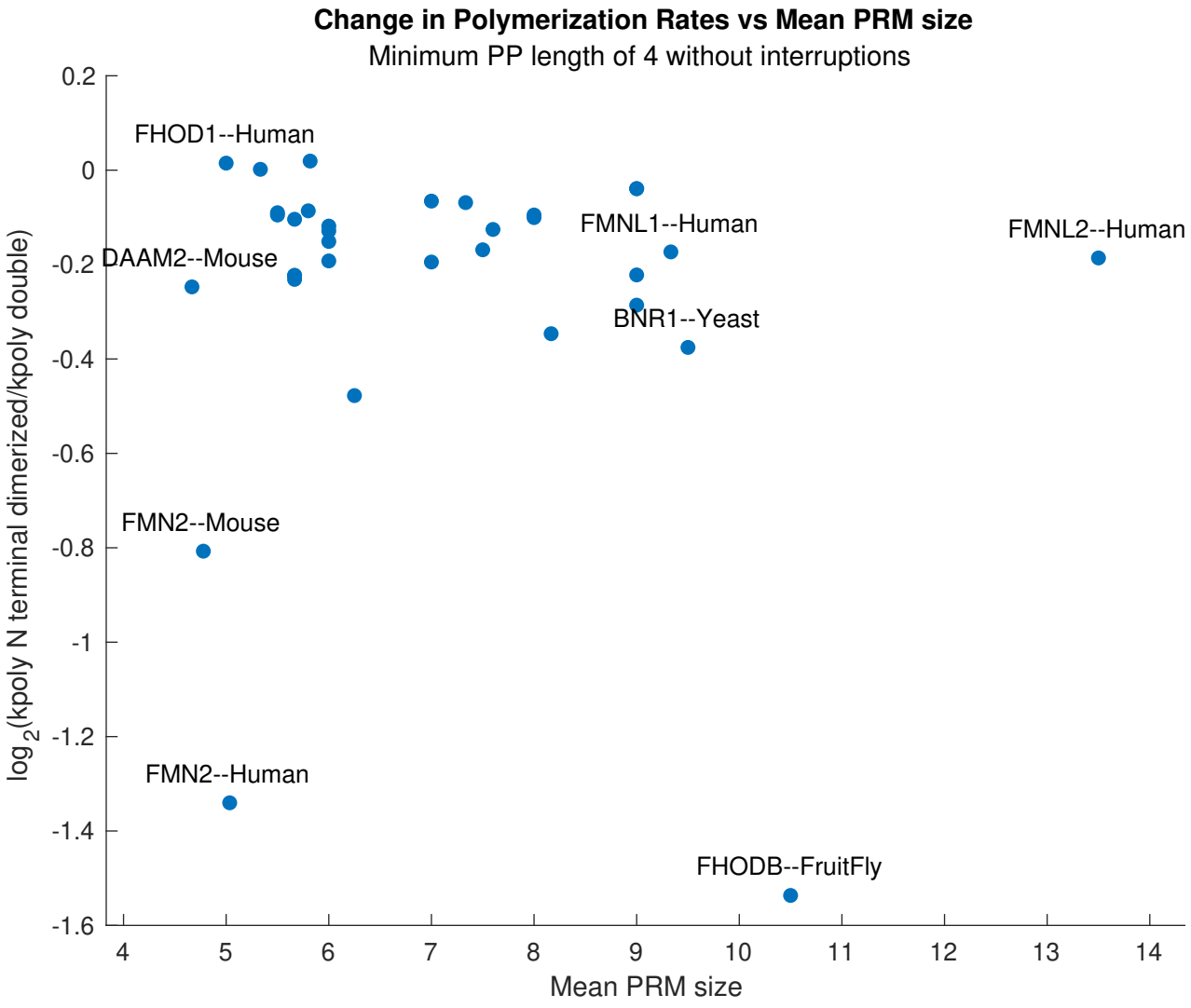

Number of Binding Sites per Formin
Minimum PP length of 4 without interruptions
Binding sites
0
5
10
15
20
25
30
35
Diap1--Human
Diap2--Human
Diap3--Human
Diap1--Mouse
Diap2--Mouse
Diap3--Mouse
Diap1--Rat
Diap3--Rat
DAAM1--Human
DAAM2--Human
DAAM1--Mouse
DAAM2--Mouse
CAPU--FruitFly
FMN1--Human
FMN2--Human
FMN1--Mouse
FMN2--Mouse
INF2--Mouse
FHOD1--Human
FHOD3--Human
FHOD1--Mouse
FHOD3--Mouse
BNR1--Yeast
CDC12P--Yeast
BNI1P--Yeast
FHODB--FruitFly
Delphinin--Human
Delphinin--Mouse
FMNL1--Human
FMNL2--Human
FHDC1--Mouse
DM7--FruitFly
FMNL1--Mouse
Delphinin--Zebrafish
Formins

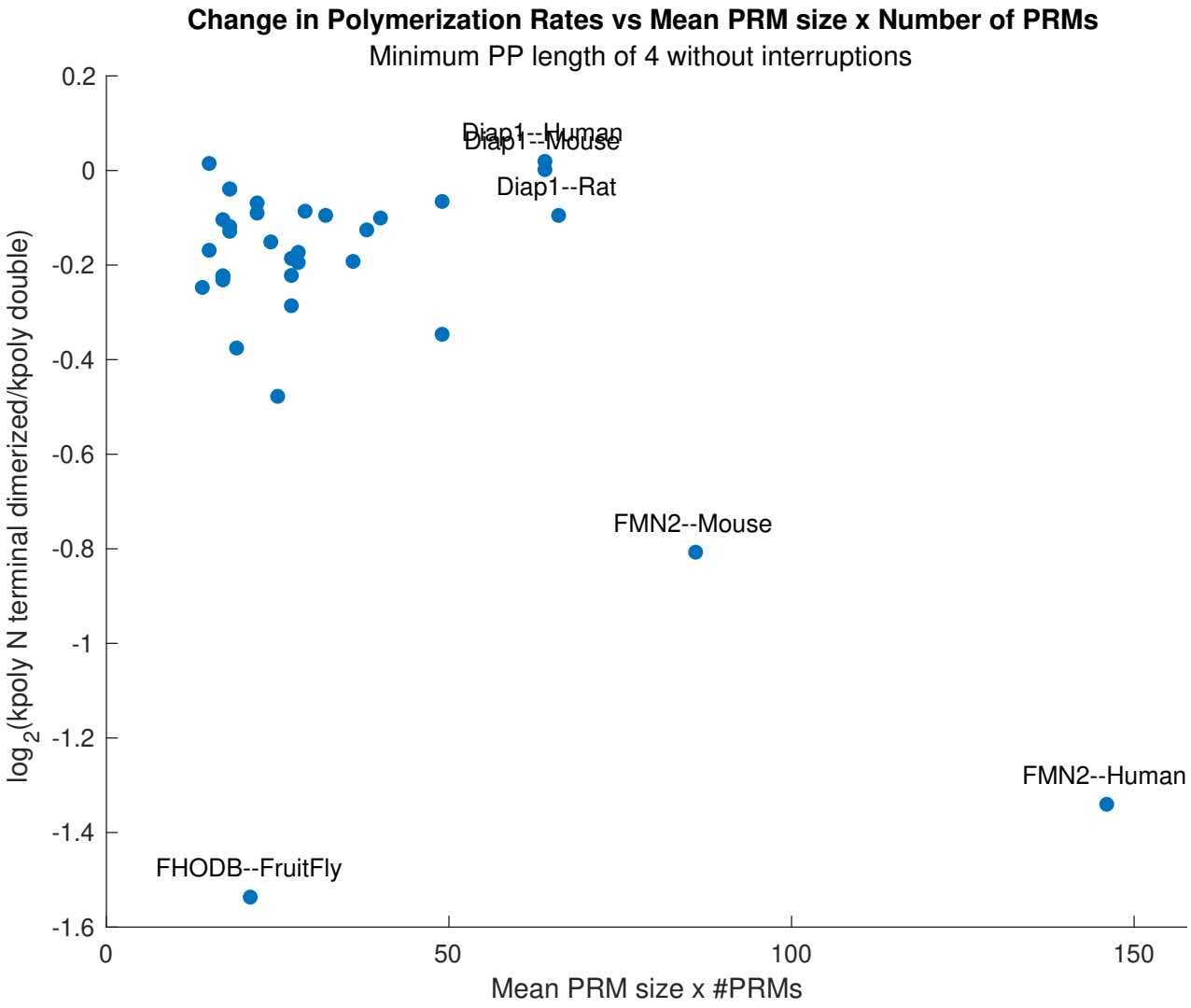

Change in Polymerization Rates vs Number of PRMs
Minimum PP length of 4 without interruptions
log2(kpoly N terminal dimerized/kpoly double)
Number of PRMs
Diap1--Human
Diap1--Mouse
Diap1--Rat
FMN2--Mouse
FMN2--Human
FHODB--FruitFly
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
0
5
10
15
20
25
30

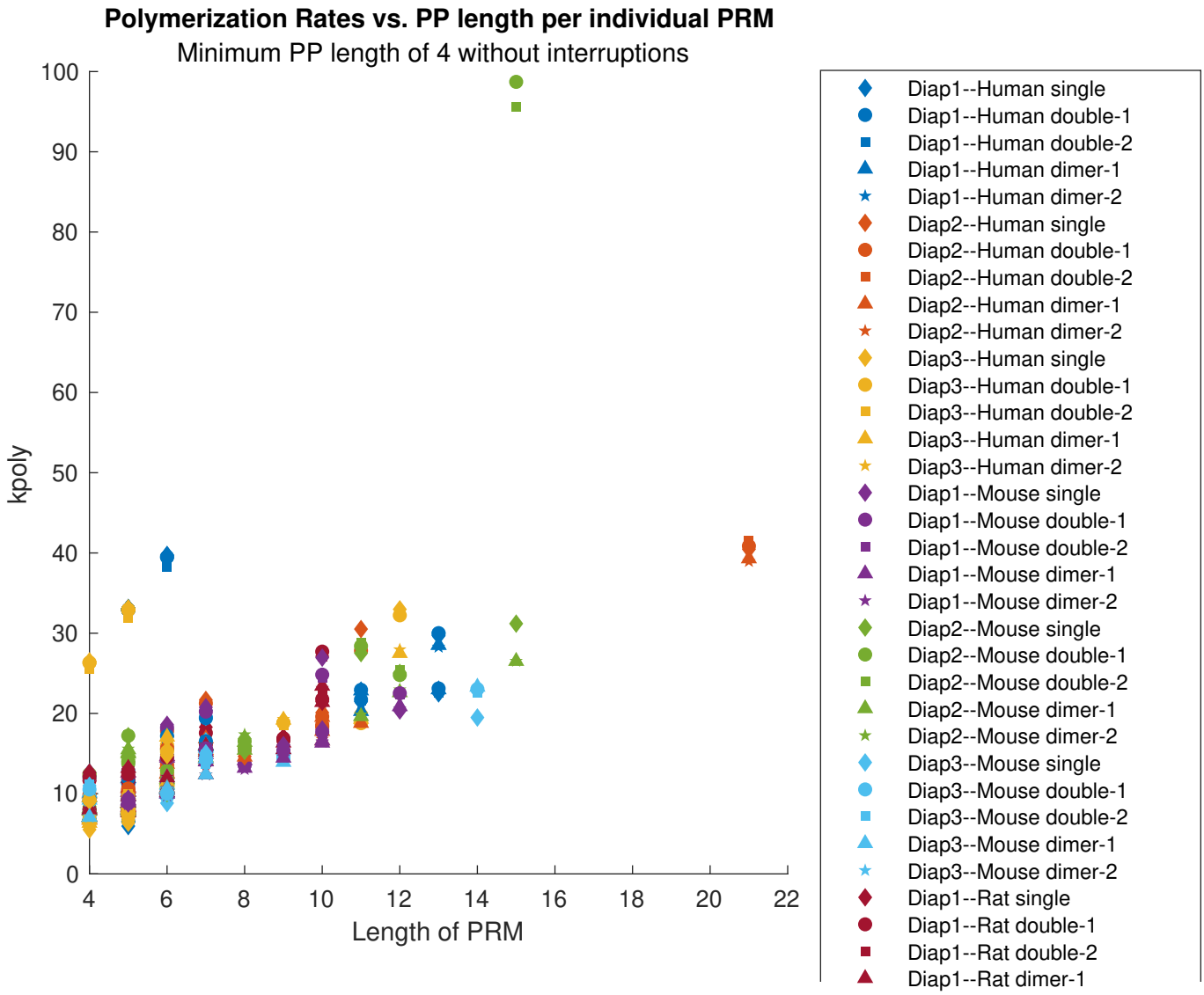

Polymerization Rates vs Number of PRMs
Minimum PP length of 4 without interruptions
Single
Double
N-Dimer
kpoly
Number of PRMs
FMN2--Human
FMN2--Mouse
Diap1--Rat
Diap1--Human
Diap1--Mouse
DAAM2--Mouse
CDC12P--Yeast

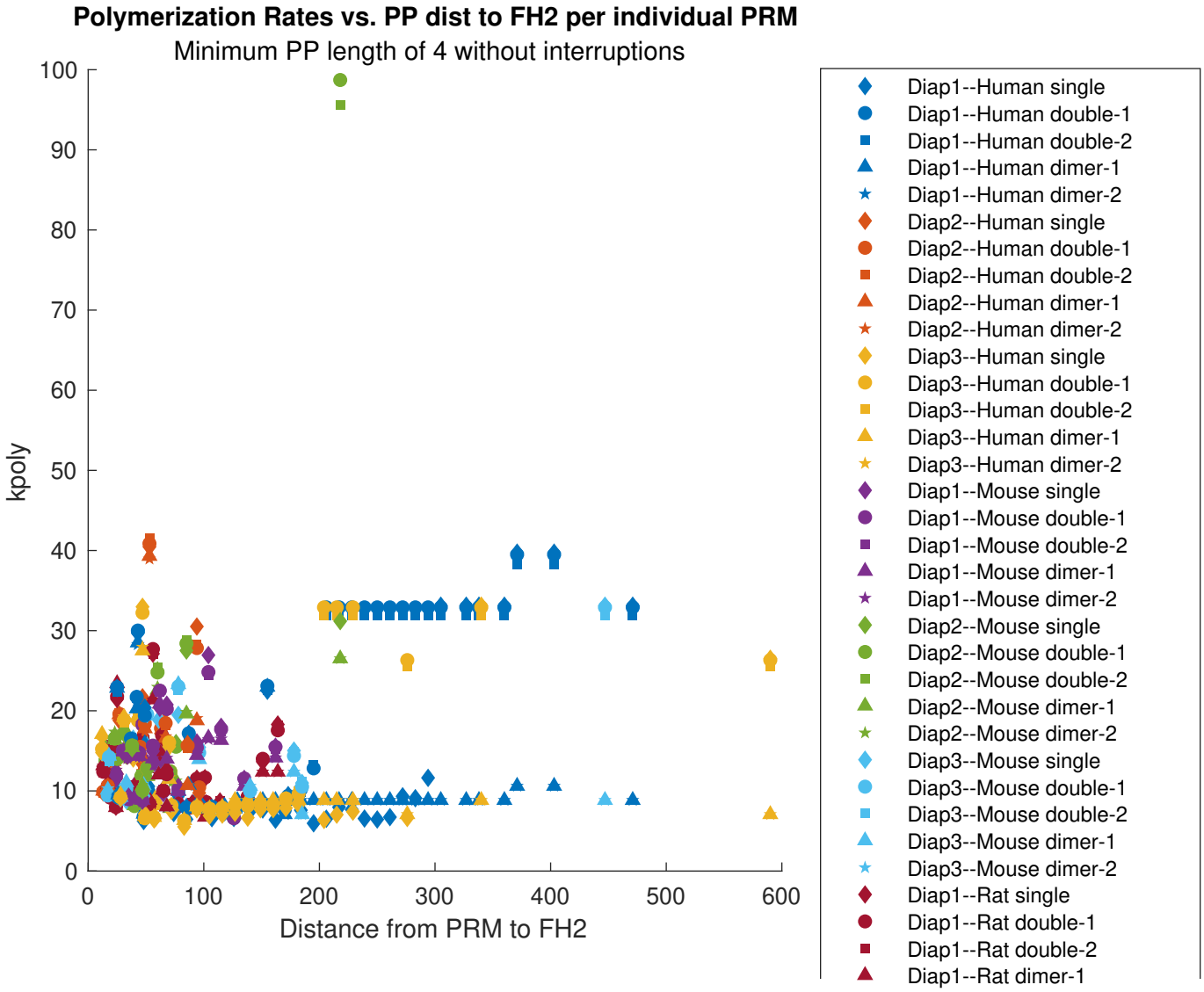

Change in Polymerization Rates vs Length of FH1 Domain
Minimum PP length of 4 without interruptions
log2(kpoly N terminal dimerized/kpoly double)
Length of FH1 domain (1st PRM to FH2)
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
0
100
200
300
400
500
600
CAPU--FruitFly
Diap3--Human
FMN2--Mouse
FMN2--Human
FHODB--FruitFly

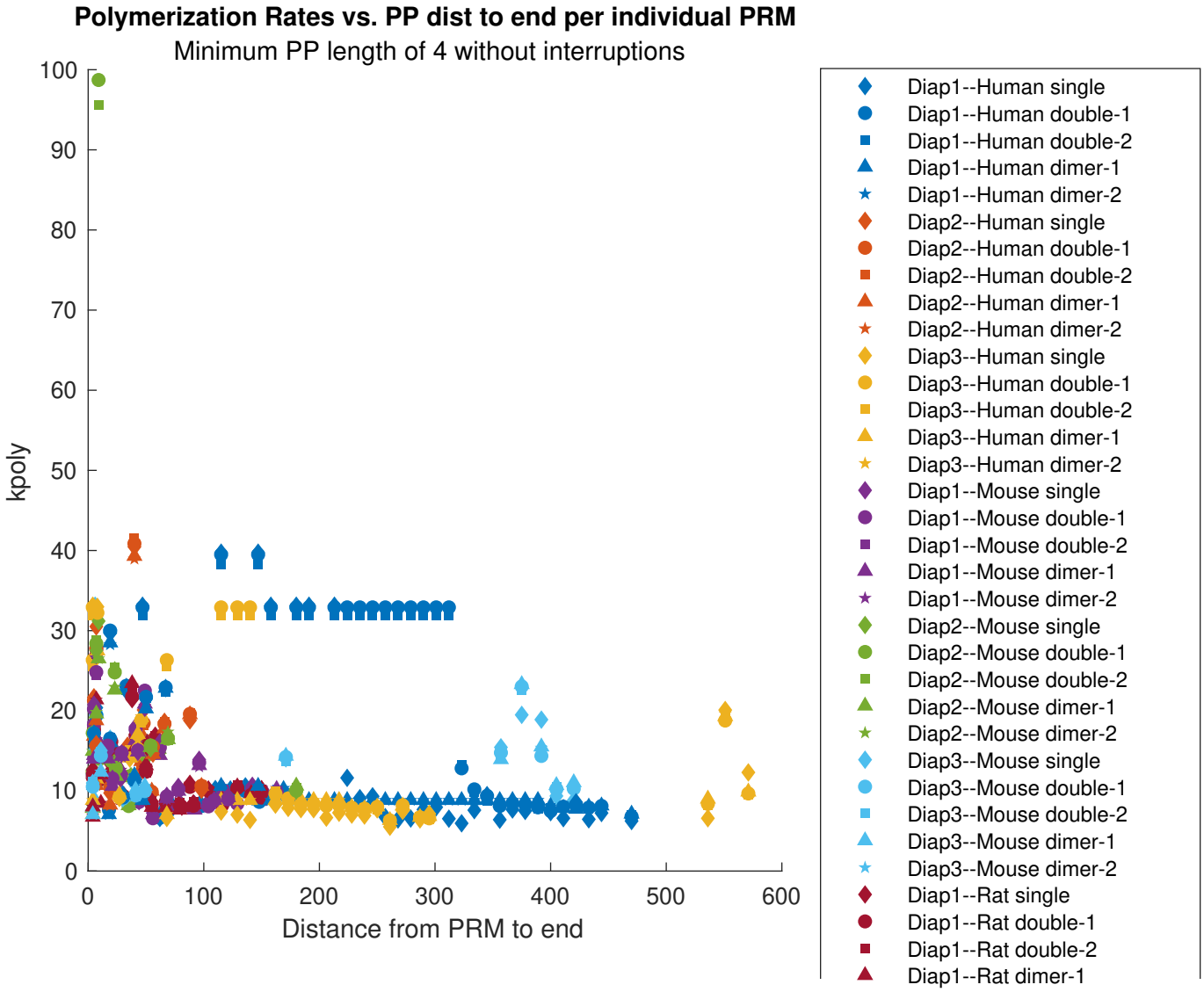

Polymerization Rates vs Length of FH1 Domain
Minimum PP length of 4 without interruptions
Single
Double
N-Dimer
kpoly
Length of FH1 domain (1st PRM to FH2)
FMN2--Human
FMN2--Mouse
CAPU--FruitFly
Diap3--Human
Diap1--Rat
DAAM2--Mouse
CDC12P--Yeast

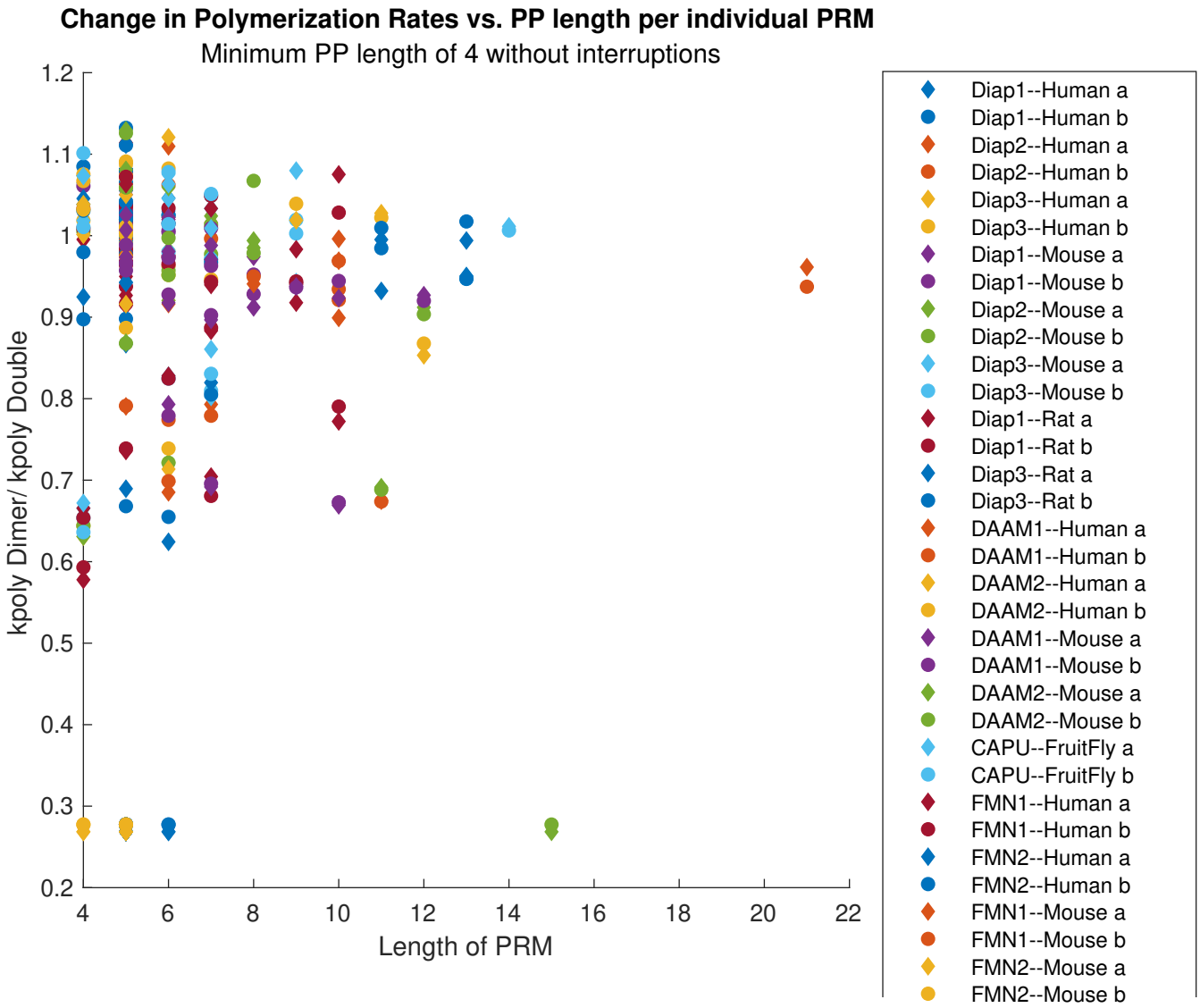

Change in Polymerization Rates vs Mean PRM size
Minimum PP length of 4 without interruptions
log2(kpoly N terminal dimerized/kpoly double)
Mean PRM size
FHOD1--Human
FMNL1--Human
FMNL2--Human
DAAM2--Mouse
BNR1--Yeast
FMN2--Mouse
FMN2--Human
FHODB--FruitFly
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
4
5
6
7
8
9
10
11
12
13
14

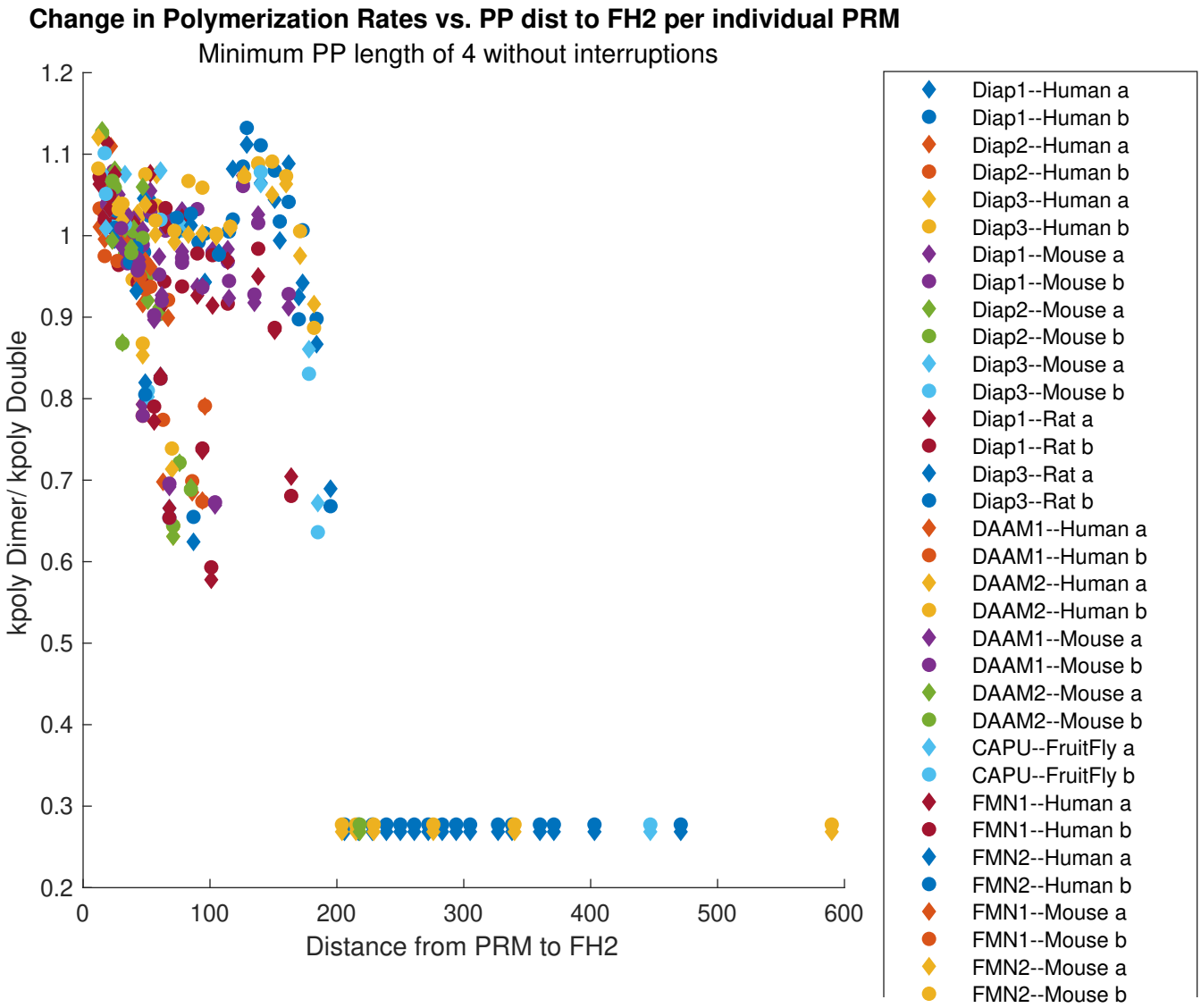

Change in Polymerization Rates vs Mean PRM size x Number of PRMs
Minimum PP length of 4 without interruptions
log2(kpoly N terminal dimerized/kpoly double)
Mean PRM size x #PRMs
Diap1--Human
Diap1--Mouse
Diap1--Rat
FMN2--Mouse
FMN2--Human
FHODB--FruitFly
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
-1.6
0
50
100
150

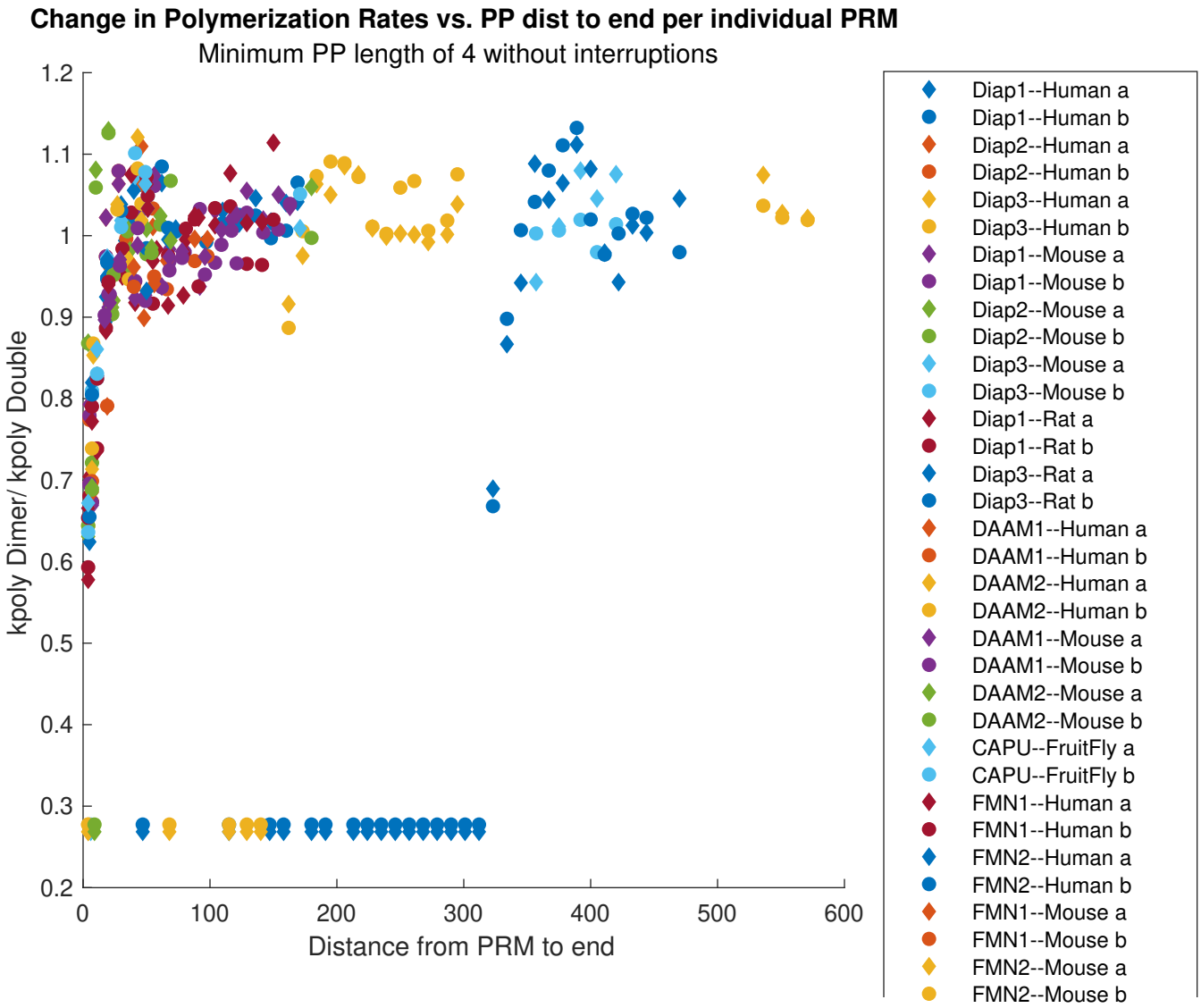

Polymerization Rates vs. PP length per individual PRM
Minimum PP length of 4 without interruptions
kpoly
Length of PRM
0
10
20
30
40
50
60
70
80
90
100
4
6
8
10
12
14
16
18
20
22
Diap1--Human single
Diap1--Human double-1
Diap1--Human double-2
Diap1--Human dimer-1
Diap1--Human dimer-2
Diap2--Human single
Diap2--Human double-1
Diap2--Human double-2
Diap2--Human dimer-1
Diap2--Human dimer-2
Diap3--Human single
Diap3--Human double-1
Diap3--Human double-2
Diap3--Human dimer-1
Diap3--Human dimer-2
Diap1--Mouse single
Diap1--Mouse double-1
Diap1--Mouse double-2
Diap1--Mouse dimer-1
Diap1--Mouse dimer-2
Diap2--Mouse single
Diap2--Mouse double-1
Diap2--Mouse double-2
Diap2--Mouse dimer-1
Diap2--Mouse dimer-2
Diap3--Mouse single
Diap3--Mouse double-1
Diap3--Mouse double-2
Diap3--Mouse dimer-1
Diap3--Mouse dimer-2
Diap1--Rat single
Diap1--Rat double-1
Diap1--Rat double-2
Diap1--Rat dimer-1


Polymerization Rates vs. PP dist to FH2 per individual PRM
Minimum PP length of 4 without interruptions
kpoly
Distance from PRM to FH2
0
10
20
30
40
50
60
70
80
90
100
0
100
200
300
400
500
600
Diap1--Human single
Diap1--Human double-1
Diap1--Human double-2
Diap1--Human dimer-1
Diap1--Human dimer-2
Diap2--Human single
Diap2--Human double-1
Diap2--Human double-2
Diap2--Human dimer-1
Diap2--Human dimer-2
Diap3--Human single
Diap3--Human double-1
Diap3--Human double-2
Diap3--Human dimer-1
Diap3--Human dimer-2
Diap1--Mouse single
Diap1--Mouse double-1
Diap1--Mouse double-2
Diap1--Mouse dimer-1
Diap1--Mouse dimer-2
Diap2--Mouse single
Diap2--Mouse double-1
Diap2--Mouse double-2
Diap2--Mouse dimer-1
Diap2--Mouse dimer-2
Diap3--Mouse single
Diap3--Mouse double-1
Diap3--Mouse double-2
Diap3--Mouse dimer-1
Diap3--Mouse dimer-2
Diap1--Rat single
Diap1--Rat double-1
Diap1--Rat double-2
Diap1--Rat dimer-1


Polymerization Rates vs. PP dist to end per individual PRM
Minimum PP length of 4 without interruptions
kpoly
Distance from PRM to end
0
10
20
30
40
50
60
70
80
90
100
0
100
200
300
400
500
600
Diap1--Human single
Diap1--Human double-1
Diap1--Human double-2
Diap1--Human dimer-1
Diap1--Human dimer-2
Diap2--Human single
Diap2--Human double-1
Diap2--Human double-2
Diap2--Human dimer-1
Diap2--Human dimer-2
Diap3--Human single
Diap3--Human double-1
Diap3--Human double-2
Diap3--Human dimer-1
Diap3--Human dimer-2
Diap1--Mouse single
Diap1--Mouse double-1
Diap1--Mouse double-2
Diap1--Mouse dimer-1
Diap1--Mouse dimer-2
Diap2--Mouse single
Diap2--Mouse double-1
Diap2--Mouse double-2
Diap2--Mouse dimer-1
Diap2--Mouse dimer-2
Diap3--Mouse single
Diap3--Mouse double-1
Diap3--Mouse double-2
Diap3--Mouse dimer-1
Diap3--Mouse dimer-2
Diap1--Rat single
Diap1--Rat double-1
Diap1--Rat double-2
Diap1--Rat dimer-1


Change in Polymerization Rates vs. PP length per individual PRM
Minimum PP length of 4 without interruptions
kpoly Dimer/ kpoly Double
Length of PRM
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
4
6
8
10
12
14
16
18
20
22
Diap1--Human a
Diap1--Human b
Diap2--Human a
Diap2--Human b
Diap3--Human a
Diap3--Human b
Diap1--Mouse a
Diap1--Mouse b
Diap2--Mouse a
Diap2--Mouse b
Diap3--Mouse a
Diap3--Mouse b
Diap1--Rat a
Diap1--Rat b
Diap3--Rat a
Diap3--Rat b
DAAM1--Human a
DAAM1--Human b
DAAM2--Human a
DAAM2--Human b
DAAM1--Mouse a
DAAM1--Mouse b
DAAM2--Mouse a
DAAM2--Mouse b
CAPU--FruitFly a
CAPU--FruitFly b
FMN1--Human a
FMN1--Human b
FMN2--Human a
FMN2--Human b
FMN1--Mouse a
FMN1--Mouse b
FMN2--Mouse a
FMN2--Mouse b


Change in Polymerization Rates vs. PP dist to FH2 per individual PRM
Minimum PP length of 4 without interruptions
kpoly Dimer/ kpoly Double
Distance from PRM to FH2
0
100
200
300
400
500
600
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
Diap1--Human a
Diap1--Human b
Diap2--Human a
Diap2--Human b
Diap3--Human a
Diap3--Human b
Diap1--Mouse a
Diap1--Mouse b
Diap2--Mouse a
Diap2--Mouse b
Diap3--Mouse a
Diap3--Mouse b
Diap1--Rat a
Diap1--Rat b
Diap3--Rat a
Diap3--Rat b
DAAM1--Human a
DAAM1--Human b
DAAM2--Human a
DAAM2--Human b
DAAM1--Mouse a
DAAM1--Mouse b
DAAM2--Mouse a
DAAM2--Mouse b
CAPU--FruitFly a
CAPU--FruitFly b
FMN1--Human a
FMN1--Human b
FMN2--Human a
FMN2--Human b
FMN1--Mouse a
FMN1--Mouse b
FMN2--Mouse a
FMN2--Mouse b


Change in Polymerization Rates vs. PP dist to end per individual PRM
Minimum PP length of 4 without interruptions
kpoly Dimer/ kpoly Double
Distance from PRM to end
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400
500
600
Diap1--Human a
Diap1--Human b
Diap2--Human a
Diap2--Human b
Diap3--Human a
Diap3--Human b
Diap1--Mouse a
Diap1--Mouse b
Diap2--Mouse a
Diap2--Mouse b
Diap3--Mouse a
Diap3--Mouse b
Diap1--Rat a
Diap1--Rat b
Diap3--Rat a
Diap3--Rat b
DAAM1--Human a
DAAM1--Human b
DAAM2--Human a
DAAM2--Human b
DAAM1--Mouse a
DAAM1--Mouse b
DAAM2--Mouse a
DAAM2--Mouse b
CAPU--FruitFly a
CAPU--FruitFly b
FMN1--Human a
FMN1--Human b
FMN2--Human a
FMN2--Human b
FMN1--Mouse a
FMN1--Mouse b
FMN2--Mouse a
FMN2--Mouse b