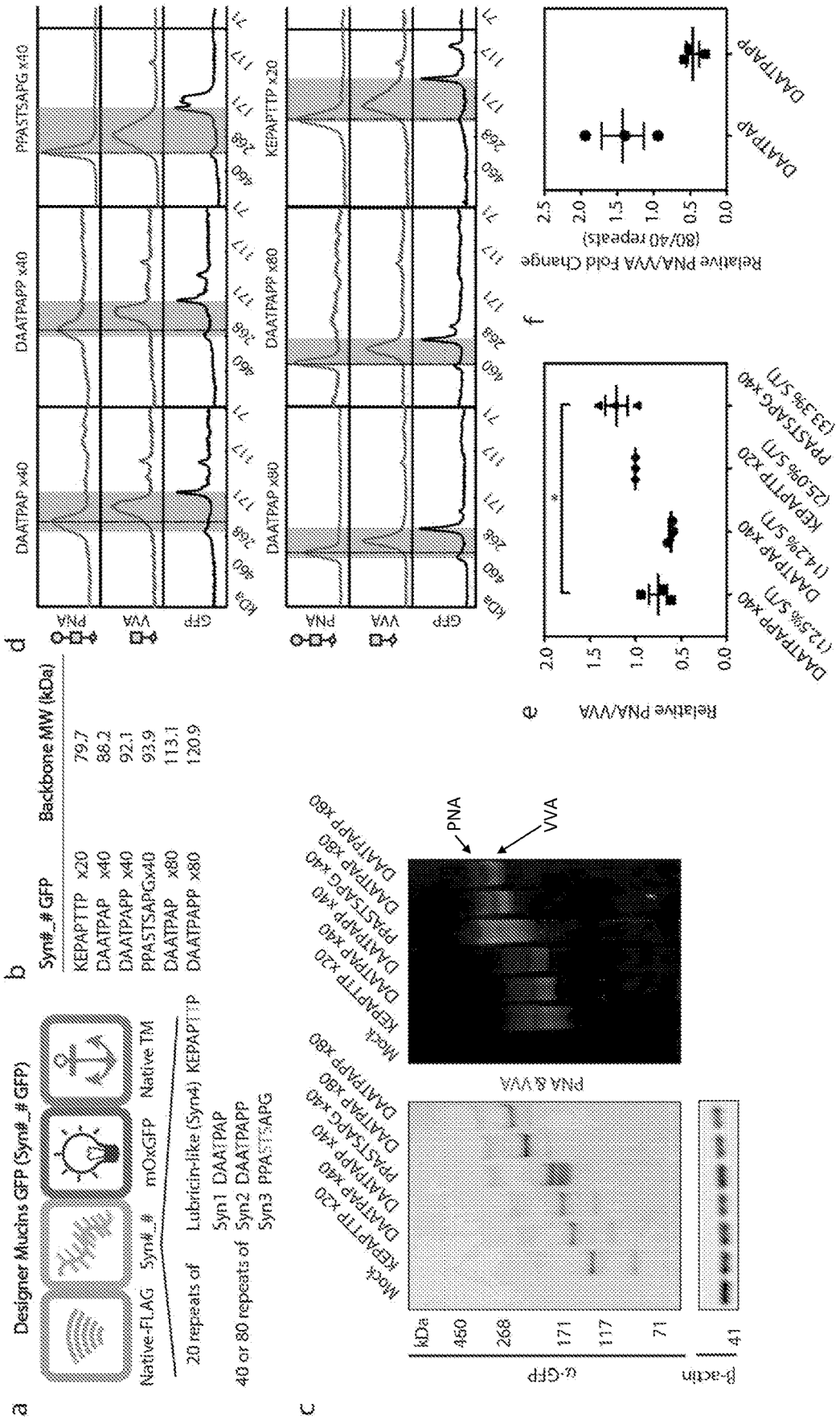
a
Designer Mucins GFP (Syn#_# GFP)
Native-FLAG
Syn#_#
mOxGFP
Native TM
20 repeats of
Lubricin-like (Syn4) KEPAPTTP
Syn1 DAATPAP
40 or 80 repeats of
Syn2 DAATPAPP
Syn3 PPASTSAPG
b
Syn#_# GFP
Backbone MW (kDa)
KEPAPTTP x20 79.7
DAATPAP x40 88.2
DAATPAPP x40 92.1
PPASTSAPGx40 93.9
DAATPAP x80 113.1
DAATPAPP x80 120.9
c
Mock
KEPAPTTP x20
DAATPAP x40
DAATPAPP x40
PPASTSAPG x40
DAATPAP x80
DAATPAPP x80
PNA
VVA
PNA & VVA
kDa
460
268
171
117
71
41
α-GFP
β-actin
d
DAATPAP x40
DAATPAPP x40
PPASTSAPG x40
DAATPAP x80
DAATPAPP x80
KEPAPTTP x20
PNA
VVA
GFP
e
Relative PNA/VVA
DAATPAP x40 (12.5% S/T)
DAATPAP x40 (14.2% S/T)
KEPAPTTP x20 (25.0% S/T)
PPASTSAPG x40 (33.3% S/T)
f
Relative PNA/VVA Fold Change (80/40 repeats)
DAATPAP
DAATPAPP

Figure 4