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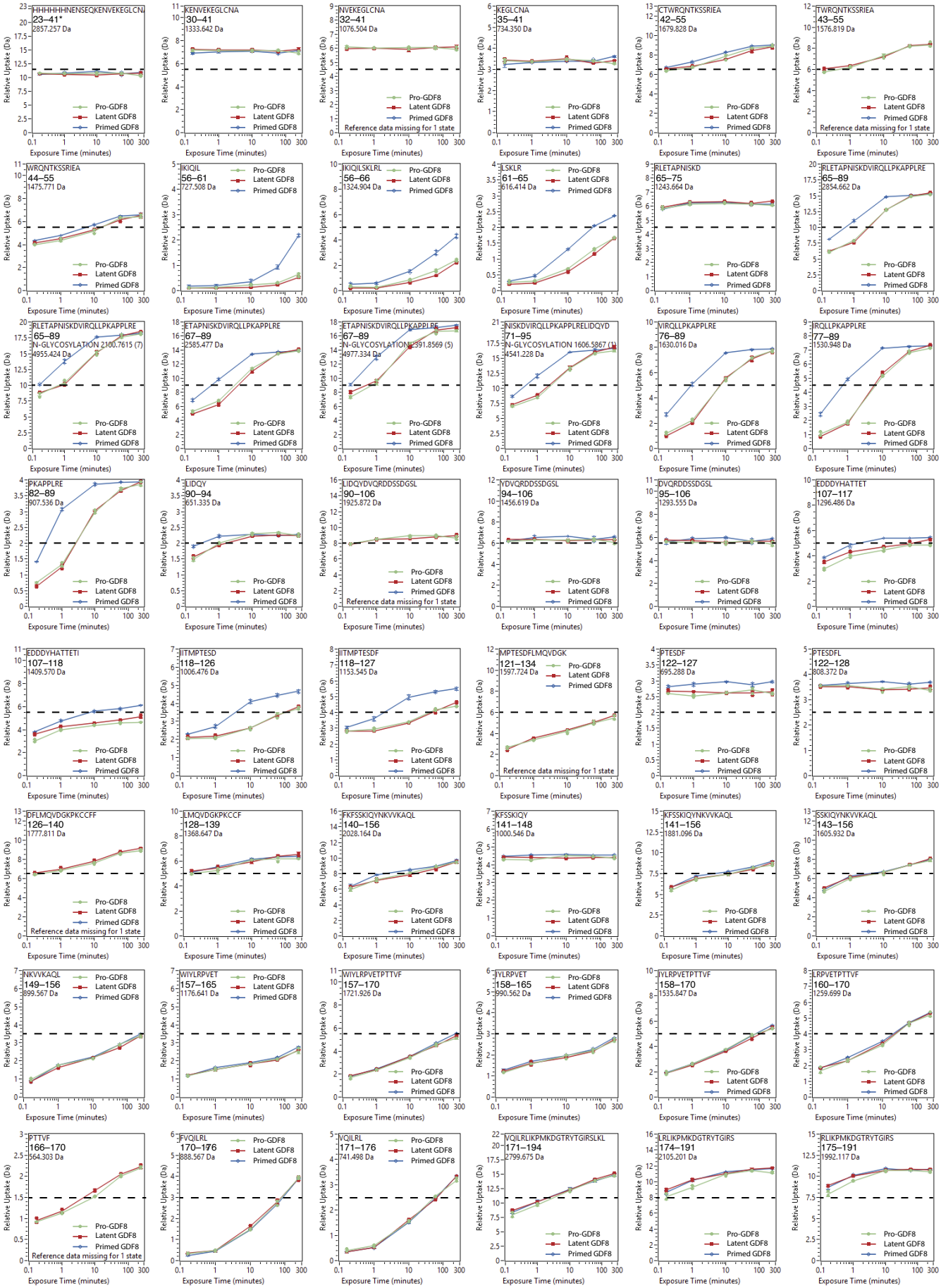

HHHHHHHNENSEQKENVEKEGLCNA
23–41*
2857.257 Da
KENVEKEGLCNA
30–41
1333.642 Da
NVEKEGLCNA
32–41
1076.504 Da
KEGLCNA
35–41
734.350 Da
CTWRQNTKSSRIEA
42–55
1679.828 Da
TWRQNTKSSRIEA
43–55
1576.819 Da
WRQNTKSSRIEA
44–55
1475.771 Da
IKIQJL
56–61
727.508 Da
IKIQJLSKLRL
56–66
1324.904 Da
LSKLR
61–65
616.414 Da
RLETAPNISKD
65–75
1243.664 Da
RLETAPNISKDVIRQLLPKAPPLRE
65–89
2854.662 Da
RLETAPNISKDVIRQLLPKAPPLRE
65–89
N-GLYCOSYLATION 2100.7615 (7)
4955.424 Da
ETAPNISKDVIRQLLPKAPPLRE
67–89
2585.477 Da
ETAPNISKDVIRQLLPKAPPLRE
67–89
N-GLYCOSYLATION 1991.8569 (5)
4977.334 Da
NISKDVIRQLLPKAPPLRELIDQYD
71–95
N-GLYCOSYLATION 1606.5867 (1)
4541.228 Da
VIRQLLPKAPPLRE
76–89
1630.016 Da
IRQLLPKAPPLRE
77–89
1530.948 Da
PKAPPLRE
82–89
907.536 Da
LIDQY
90–94
651.335 Da
LIDQYDVQRDDSSDGSL
90–106
1925.872 Da
YDVQRDDSSDGSL
94–106
1456.619 Da
DVQRDDSSDGSL
95–106
1293.555 Da
EDDDYHATTET
107–117
1296.486 Da
EDDDYHATTETI
107–118
1409.570 Da
IITMPTESD
118–126
1006.476 Da
IITMPTESDF
118–127
1153.545 Da
MPTESDFLMQVDGK
121–134
1597.724 Da
PTESDF
122–127
695.288 Da
PTESDFL
122–128
808.372 Da
DFLMQVDGKPKCCFF
126–140
1777.811 Da
LMQVDGKPKCCF
128–139
1368.647 Da
FKFSSKIQYNKVVKAQL
140–156
2028.164 Da
KFSSKIQY
141–148
1000.546 Da
KFSSKIQYNKVVKAQL
141–156
1881.096 Da
SSKIQYNKVVKAQL
143–156
1605.932 Da
NKVVKAQL
149–156
899.567 Da
WIYLRPVET
157–165
1176.641 Da
WIYLRPVETPTTVF
157–170
1721.926 Da
IYLRPVET
158–165
990.562 Da
IYLRPVETPTTVF
158–170
1535.847 Da
LRPVETPTTVF
160–170
1259.699 Da
PTTVF
166–170
564.303 Da
FVQILRL
170–176
888.567 Da
VQILRL
171–176
741.498 Da
VQILRLIKPMKDGTRYTGIRSLKL
171–194
2799.675 Da
LRLIKPMKDGTRYTGIRS
174–191
2105.201 Da
RLIKPMKDGTRYTGIRS
175–191
1992.117 Da
Relative Uptake (Da)
Exposure Time (minutes)
Pro-GDF8
Latent GDF8
Primed GDF8
Reference data missing for 1 state

Figure S1

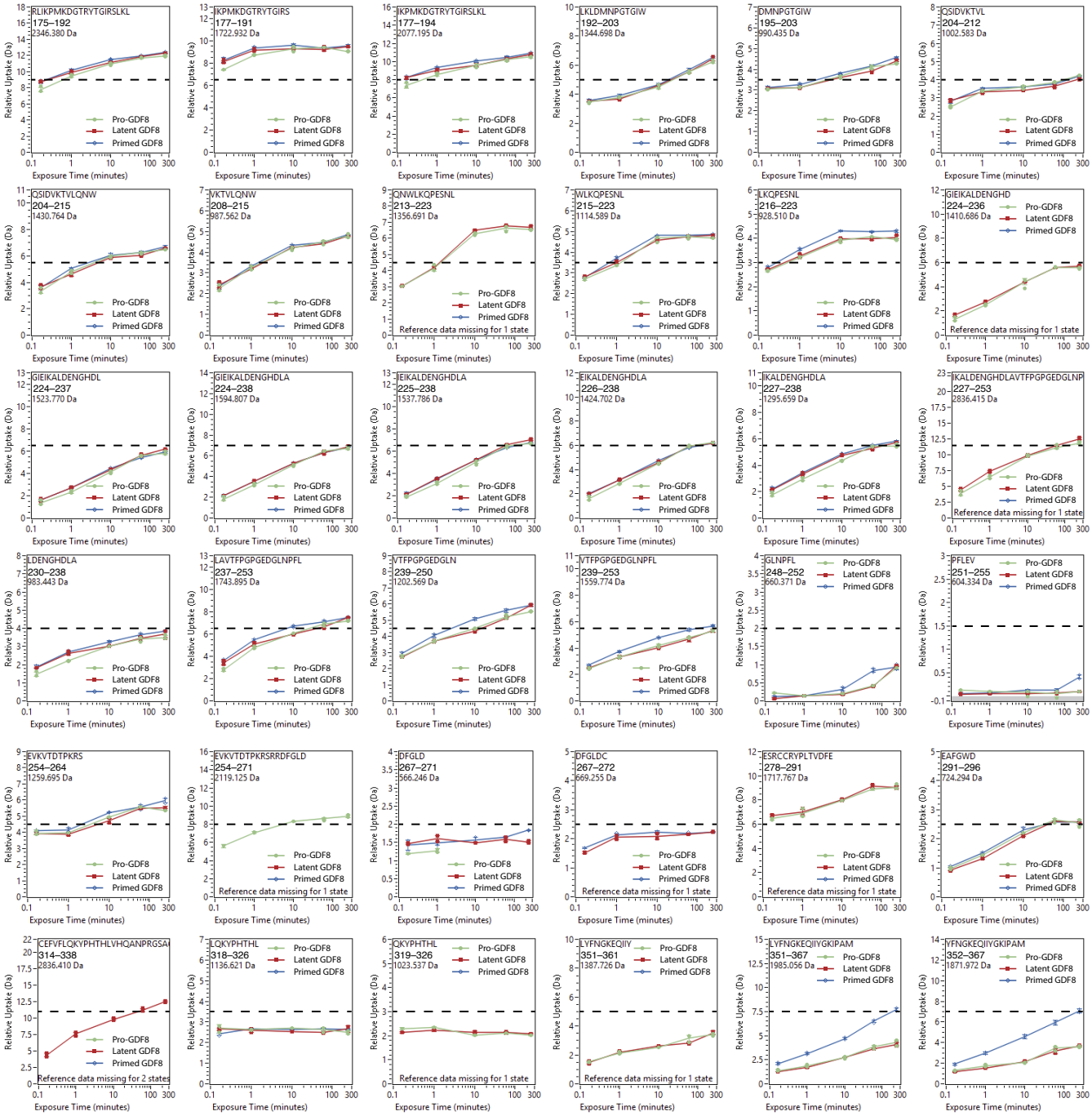
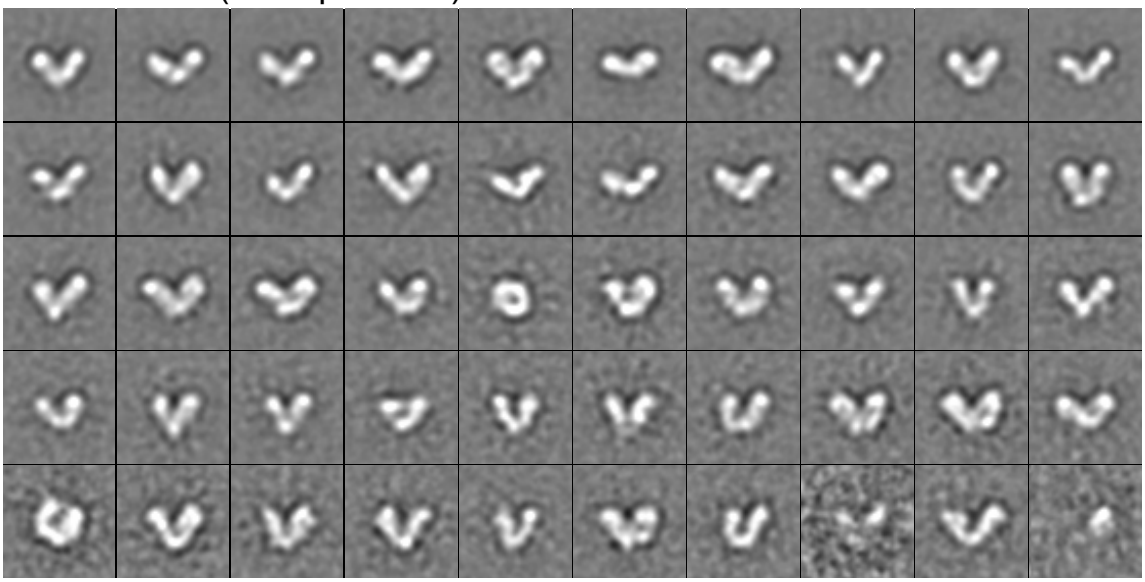
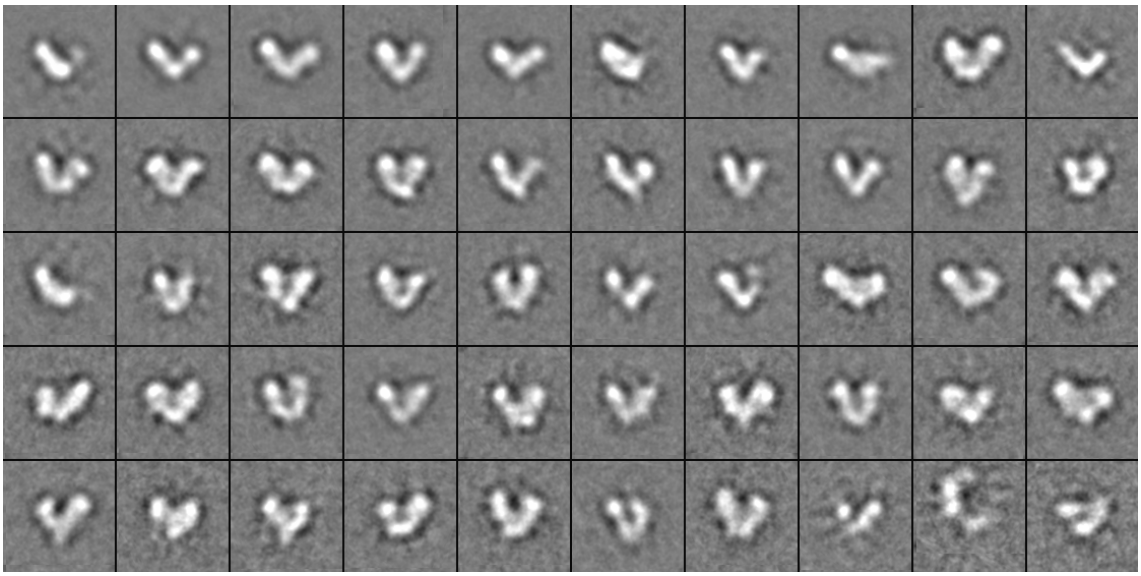

RLIKPMKDGTRYTGIRSLKL
175–192
2346.380 Da
IKPMKDGTRYTGIRS
177–191
1722.932 Da
IKPMKDGTRYTGIRSLKL
177–194
2077.195 Da
LKLDMNPGTGIW
192–203
1344.698 Da
DMNPGTGIW
195–203
990.435 Da
QSIDVKTVL
204–212
1002.583 Da
QSIDVKTVLQNW
204–215
1430.764 Da
VKTVLQNW
208–215
987.562 Da
QNWLKQPESNL
213–223
1356.691 Da
WLKQPESNL
215–223
1114.589 Da
LKQPESNL
216–223
928.510 Da
GIEIKALDENGHD
224–236
1410.686 Da
GIEIKALDENGHDL
224–237
1523.770 Da
GIEIKALDENGHDLA
224–238
1594.807 Da
IEIKALDENGHDLA
225–238
1537.786 Da
EIKALDENGHDLA
226–238
1424.702 Da
IKALDENGHDLA
227–238
1295.659 Da
IKALDENGHDLAVTFPGPGEDGLNP
227–253
2836.415 Da
LDENGHDLA
230–238
983.443 Da
LAVTFPGPGEDGLNPFL
237–253
1743.895 Da
VTFPGPGEDGLN
239–250
1202.569 Da
VTFPGPGEDGLNPFL
239–253
1559.774 Da
GLNPFL
248–252
660.371 Da
PFLEV
251–255
604.334 Da
EVKVTDTPKRS
254–264
1259.695 Da
EVKVTDTPKRSRRDFGLD
254–271
2119.125 Da
DFGLD
267–271
566.246 Da
DFGLDC
267–272
669.255 Da
ESRCCRYPLTVDFE
278–291
1717.767 Da
EAFGWD
291–296
724.294 Da
CEFVFLQKYPHTHLVHQANPRGSA
314–338
2836.410 Da
LQKYPHTHL
318–326
1136.621 Da
QKYPHTHL
319–326
1023.537 Da
LYFNGKEQIIY
351–361
1387.726 Da
LYFNGKEQIIYGKIPAM
351–367
1985.056 Da
YFNGKEQIIYGKIPAM
352–367
1871.972 Da
Pro-GDF8
Latent GDF8
Primed GDF8
Reference data missing for 1 state
Reference data missing for 2 states
Relative Uptake (Da)
Exposure Time (minutes)

Figure S2

A. Pro-GDF8 (5575 particles)



B. Latent GDF8 (4987 particles)



C. Primed GDF8 (7971 particles)

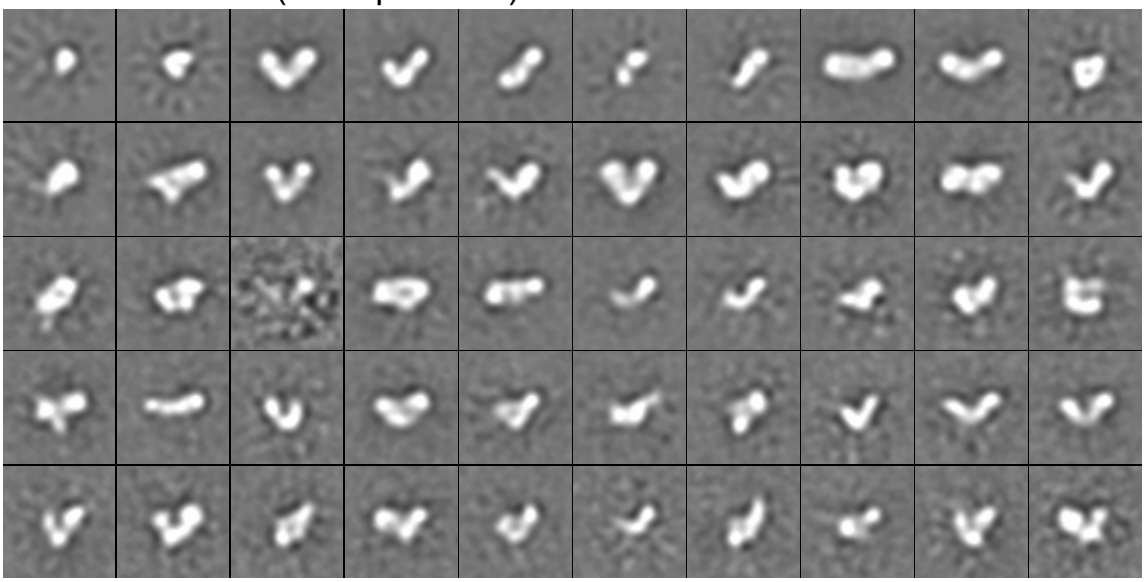


Figure S3

Figure S1. Deuterium incorporation of peptic peptides covering residues 23–41 through 175–191 for pro-GDF8 (green), latent GDF8 (red), and primed GDF8 (blue). (*) Amino acid numbering excludes the N-terminal 6x His-tag. Values represent the mean of three independent measurements; error bars, s.d. Dashed lines show 50% exchange.

Figure S2. Deuterium incorporation of peptic peptides covering residues 175–192 to 352–367 for pro-GDF8 (green), latent GDF8 (red), and primed GDF8 (blue) followed by HDX-MS. Amino acid numbering excludes the N-terminal 6x His-tag. Values represent the mean of three independent measurements; error bars, s.d. Dashed lines show 50% exchange.

Figure S3. Class averages of pro-GDF8 (A), latent GDF8 (B), and primed GDF8 (C) by multi-reference alignment and *K*-means classification.