SUPPLEMENTAL TABLES

TABLE S1

Crystallographic data collection and refinement statistics

PDB code	2WNP
Data collection	
ESRF beamline	BM30
Resolution shell (Å)	50-1.21 (1.241.21)
Observed reflections	531,861 (1,245)
Unique reflections	54,807 (410)
Redundancy	9.7 (3)
Completeness (%)	72 (7.3)
I/SigI	28.27 (2.37)
Rsym (%)	4.4 (49)
Data refinement	
Resolution high/low Å	20-1.21 (1.2571.214)
R_{work}/R_{free} (%)	17.8/19.1 (25.5/27.2)
R.m.s.d. bond/angle (Å/°)	0.007/1.108

Table S2

M-ficolin wild-type 120 µg/ml v 3.2

Chart #	Masterlist Name	RFU
47	**Neu5Ac(9Ac)**a2-6Galb1-4GlcNAcb-Sp8	28171
211	**Neu5Ac**a2-3(**Neu5Ac**a2-3Galb1-3GalNAcb1-4)Galb1-4Glcb-Sp0	23878
208	**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4GlcNAcb-Sp0	22857
142	**Neu5Ac**a2-3Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-3Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	22846
389	**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4GlcNAcb1-3GalNAca-Sp14	21171
46	**Neu5Ac(9Ac)**a-Sp8	17976
210	**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4Glcb-Sp0	17139
60	Fuca1-2Galb1-3GalNAcb1-4(**Neu5Ac**a2-3)Galb1-4Glcb-Sp9	14828
127	Galb1-3GalNAcb1-4(**Neu5Ac**a2-3)Galb1-4Glcb-Sp0	12961
234	**Neu5Ac**a2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	11706
209	**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4GlcNAcb-Sp8	9497
59	Fuca1-2Galb1-3GalNAcb1-4(**Neu5Ac**a2-3)Galb1-4Glcb-Sp0	4940
361	**Neu5Ac**a2-6GlcNAcb1-4GlcNAc-Sp21	2444
237	**Neu5Ac**a2-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	1818
198	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-3Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	1763
14	**Neu5Ac**b-Sp8	1650
315	**Neu5Ac**a2-3Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	1441
312	**Neu5Ac**a2-3Galb1-3(**Neu5Ac**a2-3Galb1-4GlcNAcb1-6)GalNAca-Sp14	1436
282	**Neu5Ac**a2-3Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	1399
322	**Neu5Ac(9Ac)**a2-3Galb1-4GlcNAcb-Sp0	1201
218	**Neu5Ac**a2-3Galb1-3(**Neu5Ac**a2-3Galb1-4)GlcNAcb-Sp8	1178
214	**Neu5Ac**a2-3GalNAcb1-4GlcNAcb-Sp0	924
393	**Neu5Ac**a2-3Galb1-3GlcNAcb1-2Mana1-3(**Neu5Ac**a2-3Galb1-3GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAc-Sp19	695
244	**Neu5Ac**a2-6Galb1-4GlcNAcb-Sp8	684
236	**Neu5Ac**a2-3Galb1-4GlcNAcb-Sp8	626
235	**Neu5Ac**a2-3Galb1-4GlcNAcb-Sp0	614
249	**Neu5Ac**a2-6Galb-Sp8	555
247	**Neu5Ac**a2-6Galb1-4Glcb-Sp0	511
373	**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb1-3GalNAca-Sp14	476
290	Galb1-3(**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb1-6)GalNAca-Sp14	433
225	**Neu5Ac**a2-3Galb1-3GlcNAcb-Sp8	409
248	**Neu5Ac**a2-6Galb1-4Glcb-Sp8	402
238	**Neu5Ac**a2-3Galb1-4Glcb-Sp0	333
222	**Neu5Ac**a2-3Galb1-3GalNAcb1-3Gala1-4Galb1-4Glcb-Sp0	329
224	**Neu5Ac**a2-3Galb1-3GlcNAcb-Sp0	309
213	**Neu5Ac**a2-3GalNAca-Sp8	299
342	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3Manb1-4GlcNAcb1-4GlcNAc-Sp12	296
340	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(Mana1-6)Manb1-4GlcNAcb1-4GlcNAc-Sp12	296
253	**Neu5Ac**b2-6Galb1-4GlcNAcb-Sp8	287
341	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6Manb1-4GlcNAcb1-4GlcNAc-Sp12	279
274	Galb1-3(**Neu5Ac**a2-3Galb1-4GlcNacb1-6)GalNAca-Sp14	277
362	**Neu5Ac**a2-6GlcNAcb1-4GlcNAcb1-4GlcNAc-Sp21	262
318	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-N(LT)AVL	260
226	**Neu5Ac**a2-3Galb1-4[6OSO3]GlcNAcb-Sp8	259
243	**Neu5Ac**a2-6Galb1-4GlcNAcb-Sp0	255
230	**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb-Sp8	251
246	**Neu5Ac**a2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	248
232	N**eu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4GlcNAcb-Sp8	247
371	**NeuAc**a2-3Galb1-4GlcNAcb1-3GalNAc-Sp14	245
219	**Neu5Ac**a2-3Galb1-3[6OSO3]GalNAca-Sp8	238

	Table S2 (Cont)	
221	**Neu5Ac**a2-3Galb-Sp8	223
212	**Neu5Ac**a2-3(**Neu5Ac**a2-6)GalNAca-Sp8	217
123	Galb1-3(**Neu5Ac**a2-6)GlcNAcb1-4Galb1-4Glcb-Sp10	215
301	GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	209
242	**Neu5Ac**a2-6Galb1-4[6OSO3]GlcNAcb-Sp8	208
44	**Neu5Ac**a2-3[6OSO3]Galb1-4GlcNAcb-Sp8	207
252	**Neu5Ac**b2-6GalNAca-Sp8	198
339	Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAc-Sp12	194
314	**Neu5Ac**a2-3Galb1-3GalNAca-Sp14	192
325	**Neu5Ac**a2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-3(Fuca1-4)GlcNAcb-Sp0	190
316	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	185
220	**Neu5Ac**a2-3Galb1-3(**Neu5Ac**a2-6)GalNAca-Sp8	178
215	**Neu5Ac**a2-3Galb1-3[6OSO3]GlcNAc-Sp8	177
205	**Neu5Ac**a2-8**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4Glcb-Sp0	175
317	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	172
250	N**eu5Ac**a2-8**Neu5Ac**a-Sp8	169
13	**Neu5Ac**a-Sp11	166
233	**Neu5Ac**a2-3Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAc-Sp0	154
231	**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb-Sp8	153
207	**Neu5Ac**a2-3(6-O-Su)Galb1-4(Fuca1-3)GlcNAcb-Sp8	151
239	**Neu5Ac**a2-3Galb1-4Glcb-Sp8	149
201	**Neu5Ac**a2-3Galb1-3GalNAca-Sp8	145
372	**NeuAc**a2-6Galb1-4GlcNAcb1-3GalNAc-Sp14	142
12	**Neu5Ac**a-Sp8	139
313	**Neu5Ac**a2-3Galb1-3(N**eu5Ac**a2-6)GalNAca-Sp14	136
323	**Neu5Ac(9Ac)**a2-3Galb1-3GlcNAcb-Sp0	135
320	Galb1-3**(Neu5Ac**a2-6)GalNAca-Sp14	132
122	Galb1-3**(Neu5Ac**b2-6)GalNAca-Sp8	119
229	**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	113
228	**Neu5Ac**a2-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	106
217	**Neu5Ac**a2-3Galb1-3(Fuca1-4)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	105
331	(**Neu5Ac**a2-3-Galb1-3)(((**Neu5Ac**a2-3-Galb1-4(Fuca1-3))GlcNAcb1-6)GalNAc-Sp14	103
245	**Neu5Ac**a2-6Galb1-4GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb1-3Galb1-4(Fuca1-3)GlcNAcb-Sp0	100
241	**Neu5Ac**a2-6GalNAcb1-4GlcNAcb-Sp0	96
206	**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**a-Sp8	96
251	**Neu5Ac**a2-8**Neu5Ac**a2-3Galb1-4Glcb-Sp0	91
53	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp13	89
54	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp8	89
396	**Neu5Ac**a2-3Galb1-3GlcNAcb1-3GalNaca-Sp14	87
281	N**eu5Ac**a2-3Galb1-3GlcNAcb1-3Galb1-3GlcNAcb-Sp0	86
203	**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4Glcb-Sp0	84
240	**Neu5Ac**a2-6GalNAca-Sp8	81
1	**Neu5Ac**a2-8**Neu5Ac**b-Sp17	75
121	Galb1-3(**Neu5Ac**a2-6)GalNAca-Sp8	74
216	**Neu5Ac**a2-3Galb1-3(Fuca1-4)GlcNAcb-Sp8	71
227	**Neu5Ac**a2-3Galb1-4(Fuca1-3)[6OSO3]GlcNAcb-Sp8	70
52	**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-3(**Neu5Ac**a2-6Galb1-4GlcNAcb1-2Mana1-6)Manb1-4GlcNAcb1-4GlcNAcb-Sp12	70
326	**Neu5Ac**a2-6Galb1-4GlcNAcb1-3Galb1-4GlcNAcb1-3Galb1-4GlcNAcb-Sp0	67
204	**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**a2-3Galb1-4Glcb-Sp0	55
324	**Neu5Ac**a2-6Galb1-4GlcNAcb1-3Galb1-3GlcNAcb-Sp0	46
202	**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**a2-3(GalNAcb1-4)Galb1-4Glcb-Sp0	41
223	**Neu5Ac**a2-3Galb1-3GlcNAcb1-3Galb1-4GlcNAcb-Sp0	31
2	**Neu5Ac**a2-8**Neu5Ac**a2-8**Neu5Ac**b-Sp8	20