

## Supplementary Materials

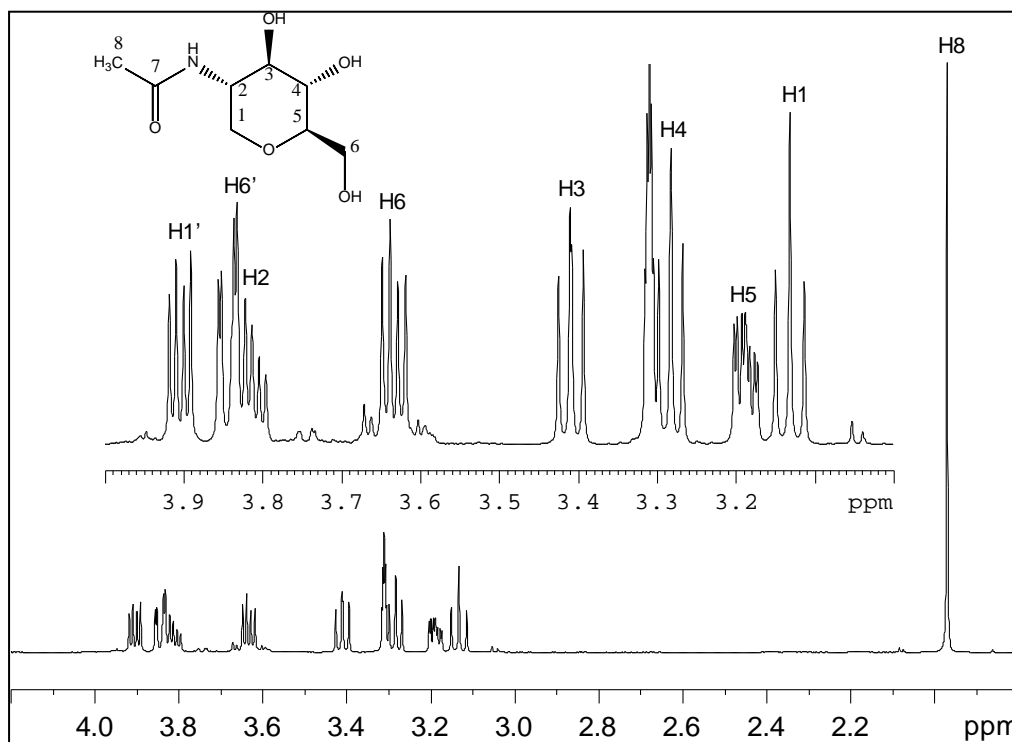


Figure S1. 1D  $^1\text{H}$  spectrum of 1-dglnac and signal assignments

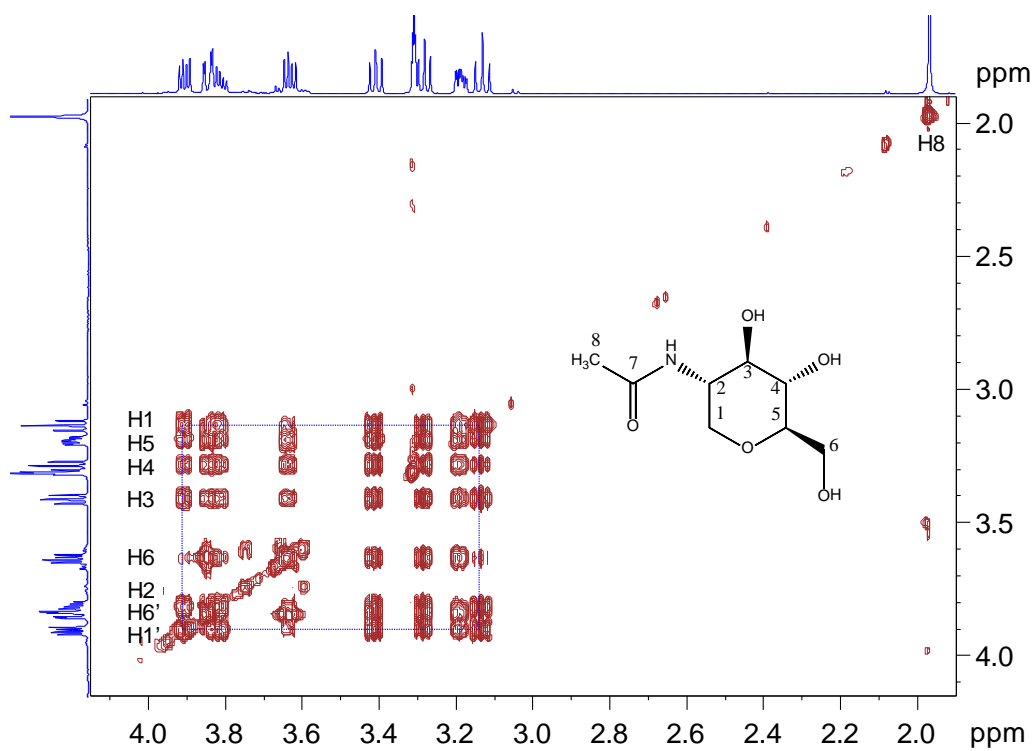


Figure S2.  $^1\text{H}$ - $^1\text{H}$  TOCSY 2D NMR spectra for 1-dglnac and signal assignments

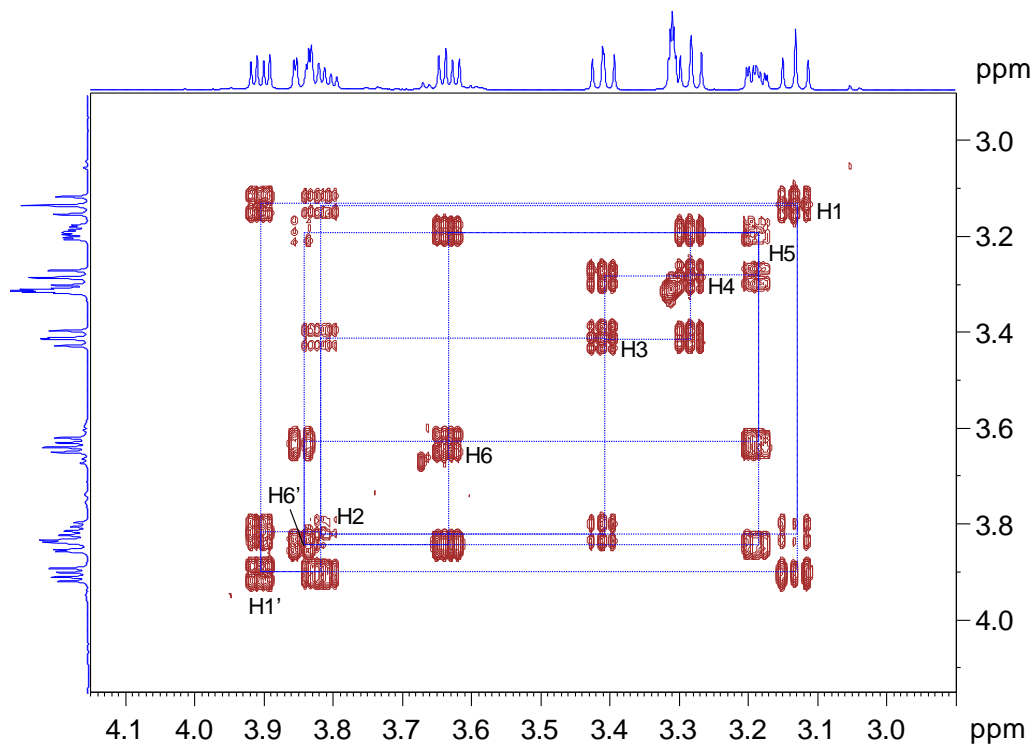


Figure S3. <sup>1</sup>H-<sup>1</sup>H COSY 2D NMR spectra for 1-dglcnac and signal assignment

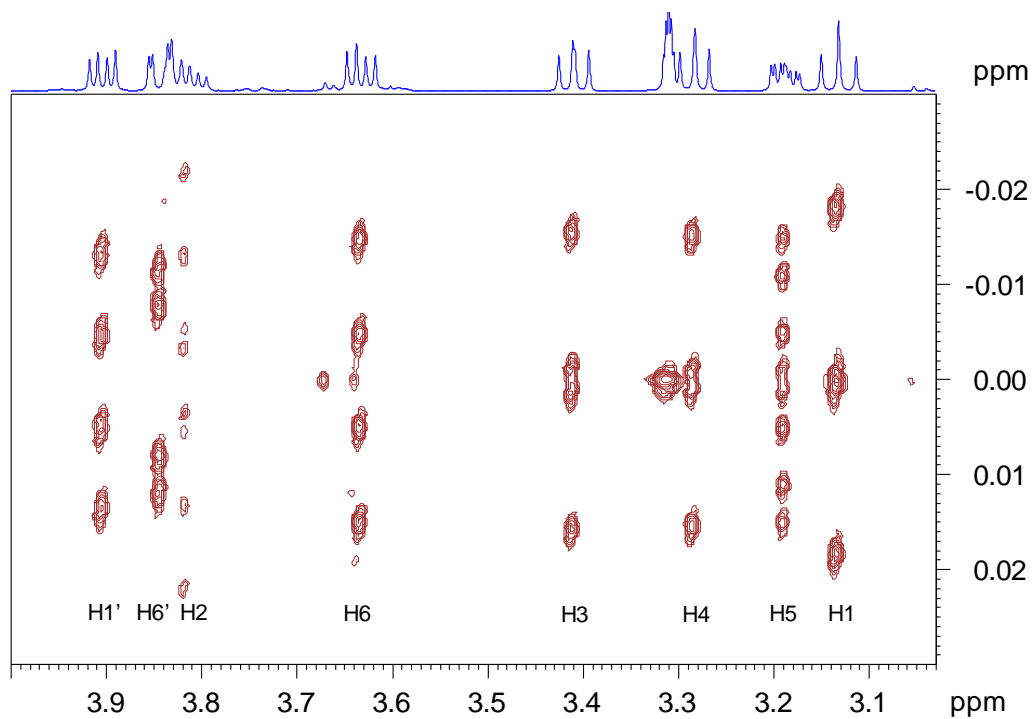


Figure S4. <sup>1</sup>H-<sup>1</sup>H JRES 2D NMR spectra for 1-dglcnac and signal assignments

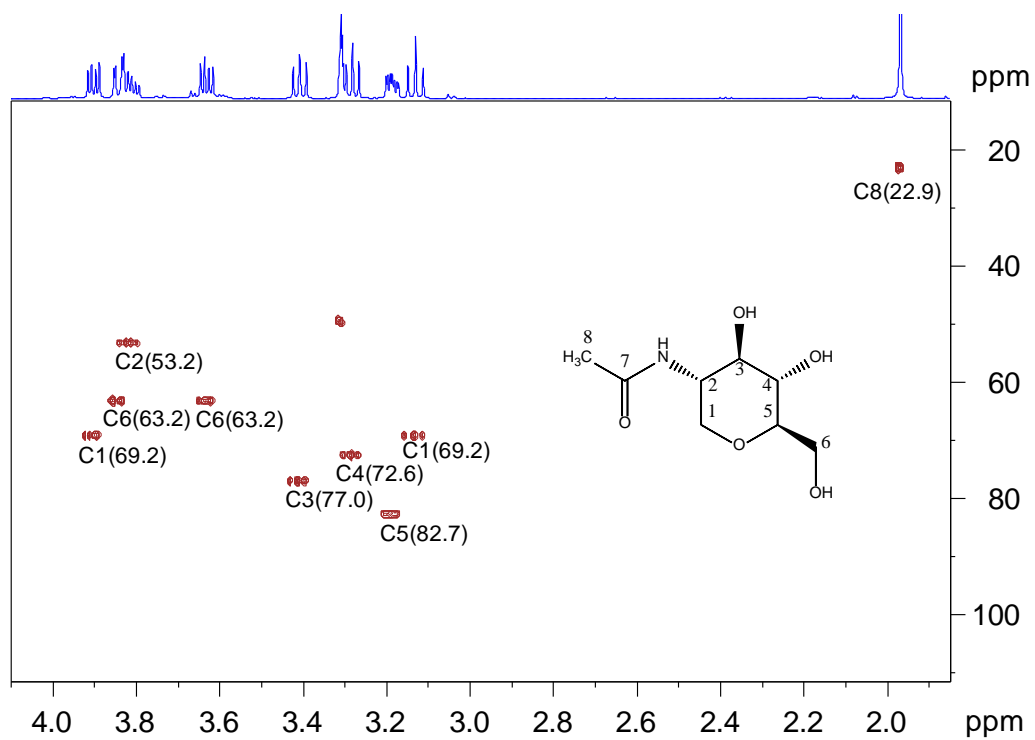


Figure S5. The  $^1\text{H}$ - $^{13}\text{C}$  HSQC NMR spectra for 1-dglcnac and signal assignments

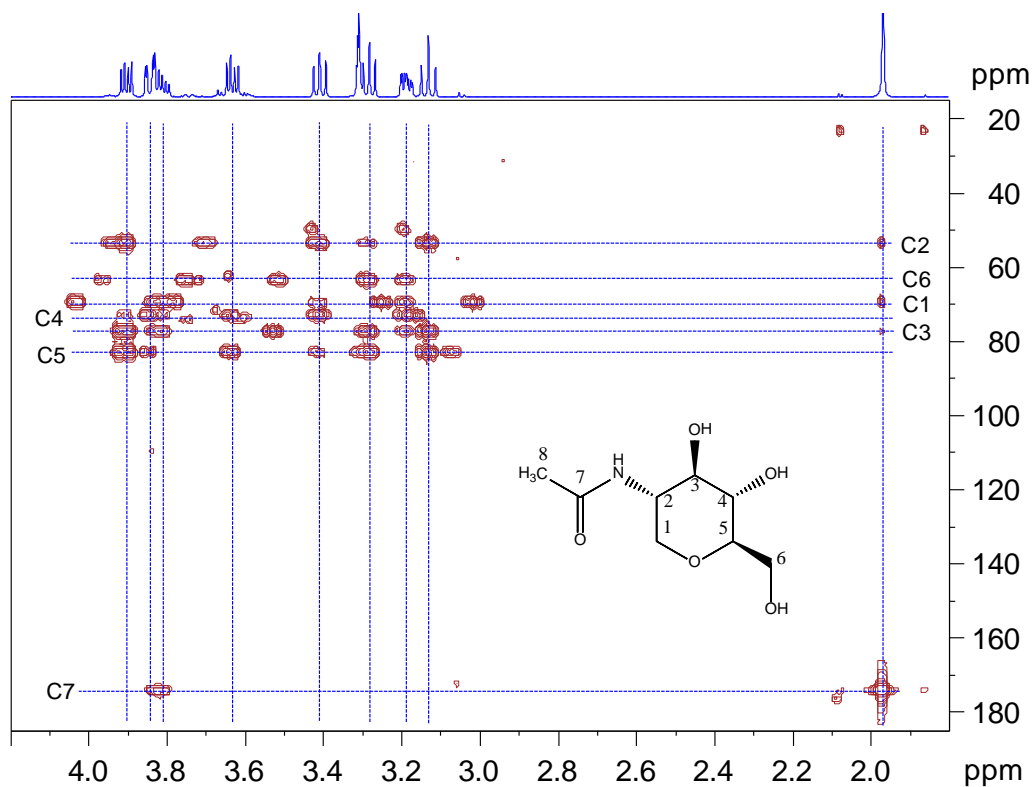


Figure S6. The  $^1\text{H}$ - $^{13}\text{C}$  HMBC NMR spectra for 1-dglcnac and signal assignments

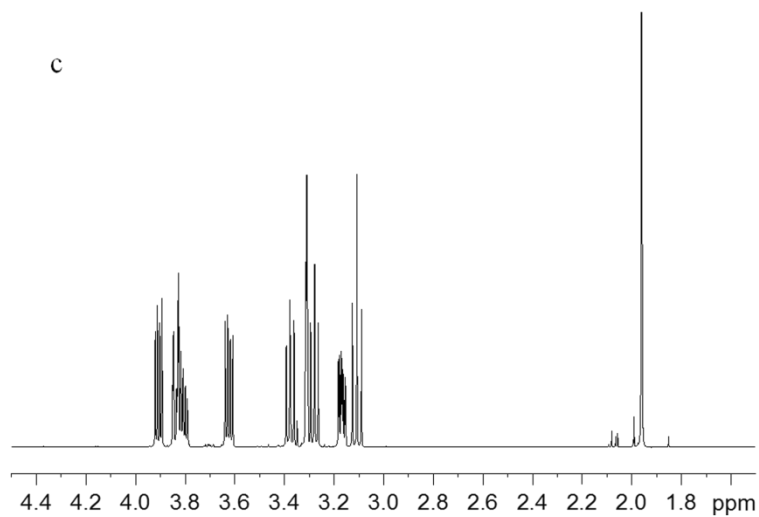
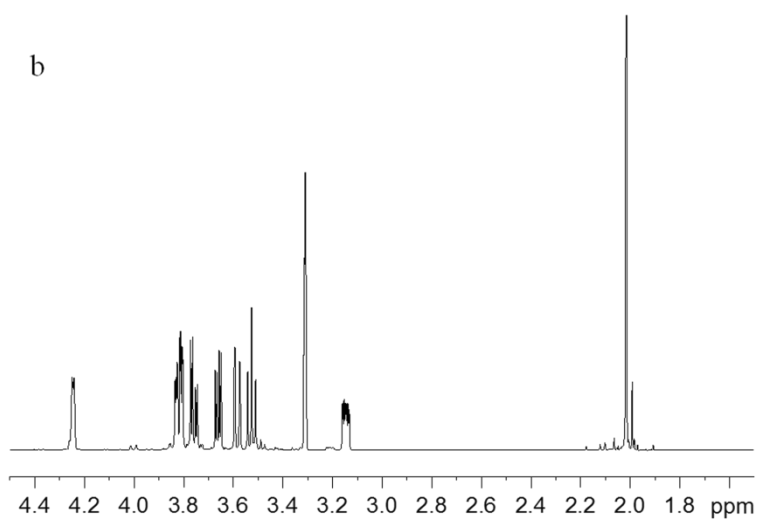
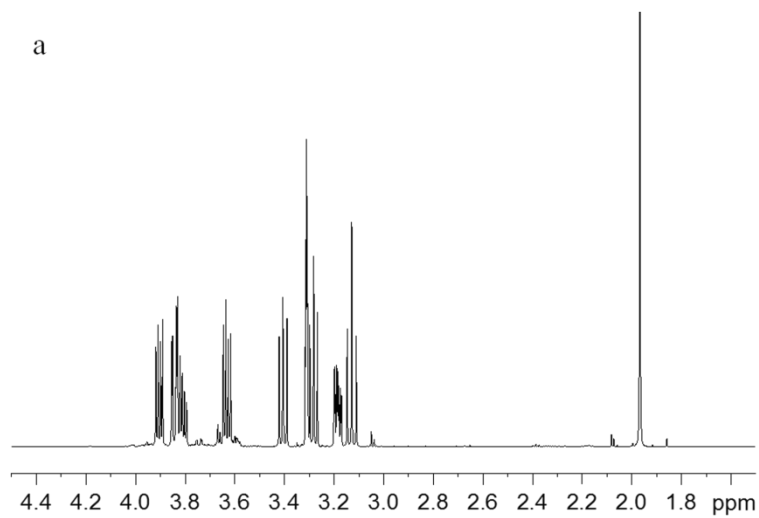


Figure S7. <sup>1</sup>H NMR spectroscopy of isolated compound (a), chemically synthetic compound of 2-acetamido-1,5-anhydro-2-deoxy-D-mannitol (b), chemically synthetic compound of 2-acetamido-1,5-anhydro-2-deoxy-D-glucitol

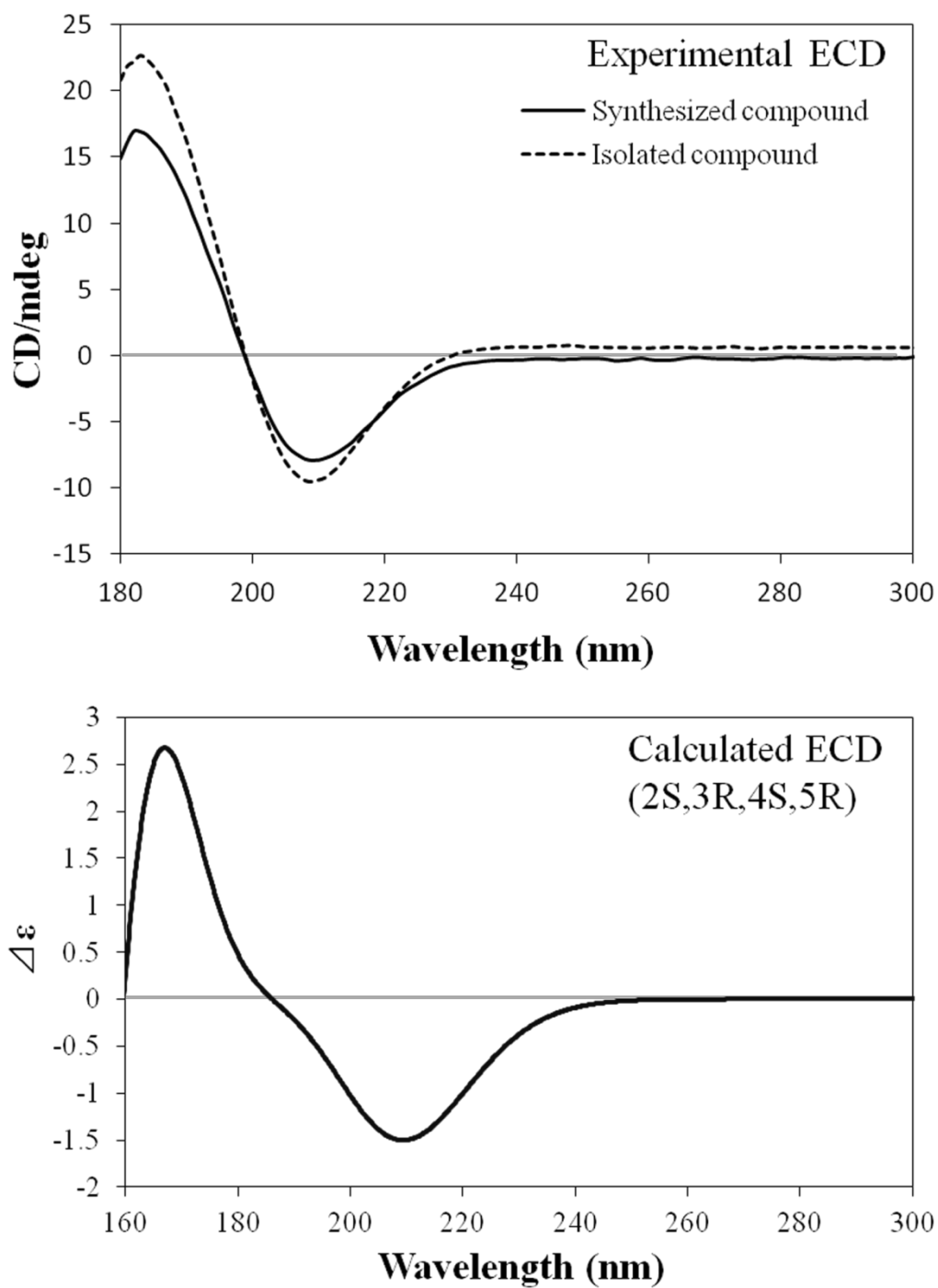


Figure S8. Calculated and experimental ECD spectra of the isolated and synthesized compound.

Table S1. DNA primers used in this study.

Name	Sequence (5' -3')
16S-F	TGGCAACTAAGGACAAGGG

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16S-R	AAGCGGTGGAGTATGTGG
rpfF-F	GTTGGTCTGATAGCGGGTGA
rpfF-R	TGAAGAACCGCAGCGTGAG
gumD-F	TTTCATAGTGCGTGTGTGCT
gumD-R	AACGACGCACGCATCACG
ftsZ-F	CTGCTGGACGATGTGAACCTG
ftsZ-R	ATAATCGTTGGGCAGGTCAGC
glmS-F	CCCCAGCGATTTGGCGTAC
glmS-R	GCGTATGCGAACCCACAGC

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Table S2. The top 300 pharmacophore candidates identified via pharmMapper

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Rank	PDB ID	Target Name	Number of Feature	Fit Score	Normalized Fit Score
1	1XIE	Xylose isomerase	8	3.96	0.495
2	2C68	Cell division protein kinase 2	6	2.875	0.4792
3	1UOU	Thymidine phosphorylase	6	2.841	0.4736
4	1NB6	Genome polyprotein	6	2.84	0.4734
5	1UKG	NONE	12	5.665	0.4721
6	1G0I	Inositol-1-monophosphatase	6	2.828	0.4714
7	2AFU	Glutaminyl-peptide cyclotransferase	8	3.752	0.469
8	2H15	Carbonic anhydrase 2	6	2.813	0.4688
9	1DMJ	Nitric oxide synthase, endothelial	6	2.78	0.4634

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10	1O9W	F17a-G fimbrial adhesin	12	5.527	0.4606
11	1LG1	Chitotriosidase-1	6	2.763	0.4606
12	1TW5	Beta-1,4-galactosyltransferase 1	10	4.582	0.4582
13	1TKU	3,4-dihydroxy-2-butanone 4-phosphate synthase	8	3.616	0.452
14	1TDB	Thymidylate synthase	10	4.509	0.4509
15	6RSA	Ribonuclease pancreatic	10	4.421	0.4421
16	1MRK	Ribosome-inactivating protein alpha-trichosanthin	6	2.647	0.4411
17	1O70	Fasciclin-1	8	3.524	0.4405
18	1QFX	3-phytase B	6	2.621	0.4368
19	1Q0N	2-amino-4-hydroxy-6-hydroxymethylidihydropteridine pyrophosphokinase	8	3.441	0.4301
20	6CGT	Cyclomaltodextrin glucanotransferase	10	4.261	0.4261
21	1T7Q	Carnitine O-acetyltransferase	8	3.398	0.4248
22	1O7D	Lysosomal alpha-mannosidase	10	4.215	0.4215
23	1FA2	Beta-amylase	8	3.361	0.4201
24	1UQX	Probable sugar-binding lectin protein	14	5.841	0.4172
25	1JDN	Atrial natriuretic peptide clearance receptor	6	2.493	0.4155
26	1UBY	Farnesyl pyrophosphate synthetase	7	2.905	0.415
27	1MVN	Phosphopantothenoylecysteine decarboxylase	6	2.438	0.4064
28	1O41	Proto-oncogene tyrosine-protein kinase Src	8	3.232	0.404
29	1DY4	Exoglucanase 1	8	3.195	0.3994

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30	1IMB	Inositol monophosphatase	12	4.767	0.3972
31	1NLJ	Cathepsin K	7	2.767	0.3953
32	1C7S	Chitobiase	12	4.703	0.3919
33	1PR1	Purine nucleoside phosphorylase deoD-type	11	4.297	0.3906
34	1GIC	Concanavalin-A	12	4.656	0.388
35	1PTG	1-phosphatidylinositol phosphodiesterase	12	4.594	0.3828
36	1GPJ	Glutamyl-tRNA reductase	8	3.047	0.3809
37	1OX6	Imidazole glycerol phosphate synthase hisHF	7	2.647	0.3782
38	1MZE	Hypoxia-inducible factor 1-alpha inhibitor	9	3.398	0.3776
39	1UNL	Cyclin-dependent kinase 5 activator 1	7	2.634	0.3762
40	1MSA	Mannose-specific lectin	12	4.513	0.3761
41	1LT5	Heat-labile enterotoxin B chain	12	4.498	0.3748
42	1GOR	Endo-1,4-beta-xylanase	10	3.738	0.3738
43	2I3I	Baculoviral IAP repeat-containing protein 7	8	2.982	0.3728
44	1LJN	Lysozyme C	12	4.463	0.3719
45	1QCI	Antiviral protein I	8	2.969	0.3712
46	1E70	Myrosinase MA1	14	5.196	0.3711
47	2FOY	Carbonic anhydrase 1	10	3.704	0.3704
48	9LDB	L-lactate dehydrogenase A chain	7	2.589	0.3699
49	1Q33	ADP-ribose pyrophosphatase, mitochondrial	16	5.914	0.3696
50	1FWY	Bifunctional protein glmU	18	6.648	0.3693
51	1PHW	2-dehydro-3-deoxyphosphooctonate aldolase	8	2.95	0.3688

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52	1S3F	Purine trans deoxyribosylase	10	3.683	0.3683
53	1FYS	Guanyl-specific ribonuclease T1	10	3.646	0.3646
54	1UWZ	Cytidine deaminase	10	3.632	0.3632
55	1KR6	Thermolysin	8	2.906	0.3632
56	1SQ5	Pantothenate kinase	10	3.618	0.3618
57	1MQ6	Coagulation factor X	8	2.891	0.3614
58	1CW7	Isocitrate dehydrogenase [NADP]	8	2.884	0.3605
59	1REF	Endo-1,4-beta-xylanase 2	10	3.597	0.3597
60	1D7U	2,2-dialkylglycine decarboxylase	8	2.866	0.3583
61	1L8L	Phosphoserine phosphatase	8	2.864	0.358
62	1M7P	Triosephosphate isomerase	6	2.148	0.3579
63	2ANG	Angiogenin	8	2.859	0.3574
64	1V0P	Cell division control protein 2 homolog	7	2.493	0.3561
65	1PFY	Methionyl-tRNA synthetase	10	3.56	0.356
66	1OD8	Endo-1,4-beta-xylanase A	12	4.269	0.3558
67	2BKV	Glucosamine-6-phosphate deaminase 1	10	3.558	0.3558
68	1RFG	Purine nucleoside phosphorylase	10	3.55	0.355
69	1JDZ	S-methyl-5-thioadenosine phosphorylase	12	4.243	0.3536
70	1IJE	Elongation factor 1-alpha	8	2.826	0.3533
71	1KEJ	DNA nucleotidylexotransferase	10	3.508	0.3508

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72	1LOG	Beta-lactamase	8	2.797	0.3497
73	1FA9	Glycogen phosphorylase, liver form	14	4.864	0.3474
74	1XOG	Neuraminidase	8	2.777	0.3472
75	1EQC	Glucan 1,3-beta-glucosidase	12	4.163	0.3469
76	1TG2	Phenylalanine-4-hydroxylase	10	3.446	0.3446
77	1AHA	Ribosome-inactivating protein momordin I	7	2.4	0.3428
78	1T9B	Acetolactate synthase catalytic subunit, mitochondrial	8	2.731	0.3414
79	1M8E	Nitric oxide synthase, inducible	6	2.049	0.3414
80	1OCQ	Endoglucanase 5A	10	3.402	0.3402
81	1W55	Bifunctional enzyme ispD/ispF	8	2.721	0.3401
82	1KI3	Thymidine kinase	8	2.718	0.3398
83	1MQO	Beta-lactamase II	11	3.685	0.335
84	1XL8	Peroxisomal carnitine O-octanoyltransferase	8	2.677	0.3347
85	1W7M	Kynurenine--oxoglutarate transaminase 1	8	2.656	0.332
86	1GVG	Clavamate synthase 1	10	3.318	0.3318
87	1C1L	Congerin-1	12	3.975	0.3313
88	1O51	UPF0166 protein TM_0021	8	2.642	0.3302
89	1HYB	Nicotinamide-nucleotide adenyltransferase	13	4.285	0.3296
90	1AX0	Lectin	10	3.291	0.3291
91	1M4G	Aminoglycoside 2-N-acetyltransferase	12	3.946	0.3288
92	3HL5	Baculoviral IAP repeat-containing protein 4	9	2.956	0.3284

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93	1UA4	ADP-dependent glucokinase	20	6.532	0.3266
94	1VL1	6-phosphogluconolactonase	8	2.611	0.3264
95	1J2Z	Acyl-[acyl-carrier-protein]-UDP-N-acetyl glucosamine O-acyltransferase	10	3.259	0.3259
96	1MVQ	Mannose/glucose-specific lectin Cramoll	12	3.906	0.3255
97	1W1A	Probable polysaccharide deacetylase pdaA	10	3.255	0.3255
98	1LP6	Orotidine 5-phosphate decarboxylase	12	3.903	0.3253
99	1JS3	Aromatic-L-amino-acid decarboxylase	11	3.578	0.3253
100	1DCP	Pterin-4-alpha-carbinolamine dehydratase	8	2.582	0.3227
101	1MD9	2,3-dihydroxybenzoate-AMP ligase	12	3.852	0.321
102	1NP0	Beta-hexosaminidase subunit beta	8	2.567	0.3209
103	1T1S	1-deoxy-D-xylulose 5-phosphate reductoisomerase	8	2.557	0.3197
104	1HQL	GSI-B4 isolectin	12	3.809	0.3174
105	5FIV	Pol polyprotein	9	2.852	0.3169
106	3BM9	Heat shock protein HSP 90-alpha	8	2.535	0.3169
107	1JCJ	Deoxyribose-phosphate aldolase	8	2.532	0.3164
108	1GQT	Ribokinase	14	4.397	0.3141
109	1LIJ	Adenosine kinase	14	4.394	0.3139
110	1HOR	3-dehydroquininate dehydratase	14	4.384	0.3131
111	3FZK	Heat shock cognate 71 kDa protein	10	3.128	0.3128
112	4CTS	Citrate synthase, mitochondrial	9	2.811	0.3123
113	1QK5	Hypoxanthine-guanine-xanthine phosphoribosyltransferase	12	3.744	0.312

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114	1DC4	Glyceraldehyde-3-phosphate dehydrogenase A	12	3.74	0.3117
115	1DOG	Glucoamylase I	12	3.737	0.3114
116	1GHV	Prothrombin	7	2.175	0.3108
117	1ISS	Metabotropic glutamate receptor 1	9	2.796	0.3106
118	1MS6	Cathepsin S	9	2.775	0.3084
119	1HI3	Non-secretory ribonuclease	12	3.696	0.308
120	1UV5	Glycogen synthase kinase-3 beta	9	2.762	0.3069
121	1FOU	Cationic trypsin	8	2.455	0.3068
122	1LTK	Phosphoglycerate kinase	10	3.067	0.3067
123	1MDO	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase	12	3.677	0.3065
124	1JC9	Techylectin-5A	8	2.45	0.3063
125	1PQP	Aspartate-semialdehyde dehydrogenase	10	3.057	0.3057
126	1DYT	Eosinophil cationic protein	8	2.443	0.3054
127	1MUO	Serine/threonine-protein kinase 6	7	2.125	0.3036
128	1KIZ	Trichodiene synthase	9	2.728	0.3032
129	5ENL	Enolase 1	10	3.031	0.3031
130	1DAR	Elongation factor G	12	3.636	0.303
131	3BIF	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4	10	3.028	0.3028
132	1QF3	Galactose-binding lectin	10	3.016	0.3016
133	1A0G	D-alanine aminotransferase	14	4.221	0.3015
134	1MOQ	Glucosamine--fructose-6-phosphate aminotransferase [isomerizing]	14	4.218	0.3013
135	1GJ8	Urokinase-type plasminogen activator	12	3.601	0.3001

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136	1UOW	Synaptotagmin-1	8	2.393	0.2992
137	1J1R	Antiviral protein S	7	2.088	0.2983
138	1XL1	Glycogen phosphorylase, muscle form	14	4.163	0.2973
139	1AMR	Aspartate aminotransferase	14	4.161	0.2972
140	1HV6	Alginate lyase	12	3.562	0.2969
141	1T31	Chymase	12	3.557	0.2964
142	1IH7	DNA polymerase	8	2.37	0.2963
143	3GSB	Glutamate-1-semialdehyde 2,1-aminomutase	12	3.541	0.2951
144	1L1R	Adenine phosphoribosyltransferase	7	2.064	0.2949
145	1XLW	Cholinesterase	8	2.357	0.2947
146	1DSY	Protein kinase C alpha type	10	2.933	0.2933
147	1TUY	Acetate kinase	10	2.932	0.2932
148	2DC8	Cathepsin B	8	2.342	0.2928
149	1IW0	Heme oxygenase	10	2.926	0.2926
150	1OJO	Hyaluronate lyase	8	2.34	0.2925
151	1QH5	Hydroxyacylglutathione hydrolase, mitochondrial	9	2.631	0.2923
152	1UC2	UPF0027 protein PH1602	10	2.92	0.292
153	1JAK	Calcium-activated potassium channel subunit beta-2	16	4.656	0.291
154	1F7L	Holo-[acyl-carrier-protein] synthase	12	3.491	0.2909
155	5MDH	Malate dehydrogenase, cytoplasmic	8	2.317	0.2897
156	2FUS	Fumarate hydratase class II	8	2.316	0.2895
157	1AUA	SEC14 cytosolic factor	10	2.887	0.2887

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158	1KSV	Ribosomal small subunit pseudouridine synthase A	12	3.46	0.2883
159	1WOQ	Inorganic polyphosphate/ATP-glucomannokinase	16	4.604	0.2877
160	1WDI	S-adenosylmethionin	10	2.877	0.2877
161	4PFK	6-phosphofructokinase	20	5.712	0.2856
162	1BR5	Ricin	10	2.856	0.2856
163	1SIR	Glutaryl-CoA dehydrogenase, mitochondrial	9	2.569	0.2855
164	1JXN	Anti-H(O) lectin 1	12	3.416	0.2847
165	1G8G	Sulfate adenylyltransferase	12	3.413	0.2844
166	1NVA	Pentafunctional AROM polypeptide	10	2.844	0.2844
167	1GP5	Leucoanthocyanidin dioxygenase	10	2.836	0.2836
168	1X7N	Glucose-6-phosphate isomerase	16	4.528	0.283
169	1MN0	Aldose 1-epimerase	12	3.392	0.2827
170	1MRX	Gag-Pol polyprotein	12	3.375	0.2812
171	2BVW	Exoglucanase-6A	16	4.489	0.2806
172	1Q4N	Alpha-amylase 1	10	2.806	0.2806
173	1NNK	Glutamate receptor 2	10	2.8	0.28
174	2EEO	Aspartate 1-decarboxylase	9	2.52	0.28
175	1CT5	UPF0001 protein YBL036C	12	3.358	0.2798
176	1HG1	L-asparaginase	10	2.794	0.2794
177	1IA7	Cellulase Cel9-M	8	2.233	0.2791
178	3BZU	Corticosteroid 11-beta-dehydrogenase isozyme 1	10	2.79	0.279

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179	1AXB	Beta-lactamase TEM	10	2.787	0.2787
180	2SIM	Sialidase	14	3.896	0.2783
181	1QPC	Proto-oncogene tyrosine-protein kinase LCK	10	2.779	0.2779
182	1V0H	Ascorbate peroxidase	10	2.774	0.2774
183	1B8U	Malate dehydrogenase	10	2.773	0.2773
184	1IUC	Fucose-specific lectin	12	3.324	0.277
185	1SOO	Adenylosuccinate synthetase	12	3.322	0.2768
186	1UJP	Tryptophan synthase alpha chain	10	2.763	0.2763
187	1UYQ	Beta-glucosidase A	12	3.312	0.276
188	1WDA	Protein-arginine deiminase type-4	10	2.755	0.2755
189	2ARC	Arabinose operon regulatory protein	16	4.389	0.2743
190	1ITU	Dipeptidase 1	9	2.464	0.2738
191	1P62	Deoxycytidine kinase	14	3.832	0.2737
192	1B3O	Inosine-5-monophosphate dehydrogenase 2	13	3.557	0.2737
193	1MEN	Trifunctional purine biosynthetic protein adenosine-3	10	2.737	0.2737
194	1G6I	Endoplasmic reticulum mannosyl-oligosaccharide 1,2-alpha-mannosidase	10	2.737	0.2737
195	1YMX	Beta-lactamase CTX-M-9a	9	2.457	0.273
196	1JZQ	Isoleucyl-tRNA synthetase	18	4.905	0.2725
197	1MC0	cGMP-dependent 3,5-cyclic phosphodiesterase	13	3.54	0.2723

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198	1H78	Anaerobic ribonucleoside-triphosphate reductase	14	3.796	0.2712
199	1ATL	Zinc metalloproteinase atrolysin-D	10	2.708	0.2708
200	1TU7	Glutathione S-transferase 2	14	3.788	0.2706
201	1R1I	Nepriylsin	12	3.246	0.2705
202	1O26	Thymidylate synthase thyX	14	3.775	0.2696
203	2W6Z	Biotin carboxylase	10	2.696	0.2696
204	1Y4S	Chaperone protein htpG	14	3.768	0.2692
205	1KZL	Riboflavin synthase alpha chain	18	4.839	0.2688
206	1N97	Cytochrome P450	12	3.214	0.2679
207	1CZA	Hexokinase-1	20	5.349	0.2674
208	2CHB	Cholera enterotoxin subunit B	12	3.205	0.2671
209	1T4T	Arginase-1	11	2.932	0.2665
210	1JKI	Inositol-3-phosphate synthase	14	3.722	0.2659
211	1B02	Thymidylate synthase A	16	4.252	0.2657
212	1FJ6	Fructose-1,6-bisphosphatase 1	14	3.709	0.265
213	1RY2	Acetyl-coenzyme A synthetase 1	14	3.705	0.2646
214	1KSU	Fumarate reductase flavoprotein subunit	10	2.646	0.2646
215	1RZY	Histidine triad nucleotide-binding protein 1	17	4.489	0.2641
216	1IYP	Beta-lactamase Toho-1	13	3.43	0.2638
217	2AIG	Zinc metalloproteinase adamalysin-2	14	3.692	0.2637

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218	1E8U	Hemagglutinin-neuraminidase	17	4.476	0.2633
219	1TDJ	Threonine dehydratase biosynthetic	10	2.628	0.2628
220	1PMQ	Mitogen-activated protein kinase 10	14	3.676	0.2626
221	1OON	Oxygen-insensitive NAD(P)H nitroreductase	14	3.671	0.2622
222	1UWS	Beta-galactosidase	14	3.671	0.2622
223	1OF8	Phospho-2-dehydro-3-deoxyheptonate aldolase, tyrosine-inhibited	10	2.622	0.2622
224	2SFP	Alanine racemase	14	3.67	0.2621
225	1IPC	Eukaryotic translation initiation factor 4E	10	2.619	0.2619
226	1HS6	Leukotriene A-4 hydrolase	14	3.664	0.2617
227	1NXJ	Regulator of ribonuclease activity A	10	2.617	0.2617
228	1ROY	Cystic fibrosis transmembrane conductance regulator	17	4.448	0.2616
229	1MW M	Plasmid segregation protein parM	12	3.136	0.2614
230	1QJI	Astacin	14	3.658	0.2613
231	1MQQ	Alpha-glucuronidase	18	4.695	0.2608
232	1RDW	Actin, alpha skeletal muscle	10	2.607	0.2607
233	1KT8	Branched-chain-amino-acid aminotransferase, mitochondrial	14	3.645	0.2604
234	1XBX	3-keto-L-gulonate-6-phosphate decarboxylase ulaD	14	3.634	0.2595
235	1A4R	Cell division control protein 42 homolog	10	2.595	0.2595
236	1A05	3-isopropylmalate dehydrogenase	13	3.371	0.2593
237	1UN7	N-acetylglucosamine-6-phosphate deacetylase	18	4.665	0.2592

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238	1A25	Protein kinase C beta type	8	2.067	0.2584
239	1RQ2	Cell division protein ftsZ	10	2.58	0.258
240	1JAQ	Neutrophil collagenase	14	3.611	0.2579
241	2B4Y	NAD-dependent deacetylase sirtuin-5	14	3.606	0.2576
242	1MF0	Adenylosuccinate synthetase isozyme 1	10	2.576	0.2576
243	1UEJ	Uridine-cytidine kinase 2	17	4.368	0.257
244	1GEX	Histidinol-phosphate aminotransferase	12	3.083	0.2569
245	1SQS	Hypothetical protein	12	3.081	0.2568
246	1E99	Thymidylate kinase	9	2.305	0.2561
247	1S3G	Adenylate kinase	8	2.045	0.2557
248	1BKJ	NADPH-flavin oxidoreductase	16	4.086	0.2554
249	1CKN	mRNA-capping enzyme	11	2.808	0.2553
250	2V3D	Glucosylceramidase	14	3.573	0.2552
251	2C6C	Glutamate carboxypeptidase 2	14	3.568	0.2548
252	1X92	Phosphoheptose isomerase	14	3.561	0.2543
253	1KRF	Mannosyl-oligosaccharide alpha-1,2-mannosidase	14	3.554	0.2539
254	1B57	Fructose-bisphosphate aldolase class 2	14	3.549	0.2535
255	1H4G	Glycoside hydrolase	16	4.051	0.2532
256	1BB7	Lysozyme C II	16	4.034	0.2522
257	1RQJ	Geranyltranstransferase	12	3.027	0.2522
258	1PS3	Alpha-mannosidase 2	16	4.021	0.2513

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259	1KC3	dTDP-4-dehydrorhamnose reductase	11	2.762	0.2511
260	1VRP	Creatine kinase M-type	14	3.512	0.2508
261	1J01	Exoglucanase/xylanase [Includes: Exoglucanase	18	4.511	0.2506
262	1AB8	Adenylate cyclase type 2	10	2.501	0.2501
263	2QCF	Uridine 5-monophosphate synthase	18	4.495	0.2497
264	1YBU	PROBABLE LIGNIN PEROXIDASE LIPJ	12	2.992	0.2494
265	1A6W	Ig heavy chain V region B1-8/186-2	11	2.741	0.2492
266	2NCD	Protein claret segregational	14	3.487	0.249
267	1KF0	Phosphoglycerate kinase 1	13	3.237	0.249
268	1R5H	Methionine aminopeptidase 2	15	3.733	0.2489
269	1NW6	Modification methylase RsrI	14	3.479	0.2485
270	1IYH	Glutathione-requiring prostaglandin D synthase	11	2.725	0.2477
271	2GG0	Methionine aminopeptidase	16	3.961	0.2476
272	1PZ2	Alpha-N-arabinofuranosidase	14	3.465	0.2475
273	1YLZ	Extended-spectrum beta-lactamase CTX-M-14	11	2.721	0.2473
274	1MIY	CCA-adding enzyme	14	3.461	0.2472
275	1X6V	Bifunctional 3-phosphoadenosine 5-phosphosulfate synthetase 1	14	3.46	0.2471
276	2JFF	UDP-N-acetylmuramoylalanine--D-glutam ate ligase	11	2.715	0.2469
277	1SMO	Triggering receptor expressed on myeloid cells 1	14	3.451	0.2465
278	1PCM	Phosphomannomutase/phosphoglucomutas e	18	4.429	0.2461

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279	1SDE	D-alanyl-D-alanine carboxypeptidase	11	2.703	0.2458
280	1M9A	Glutathione S-transferase class-mu 26 kDa isozyme	11	2.699	0.2454
281	1P9P	tRNA	18	4.413	0.2452
282	1KDT	Cytidylate kinase	10	2.447	0.2447
283	1J53	DNA polymerase III subunit epsilon	15	3.669	0.2446
284	1QJQ	Ferrichrome-iron receptor	15	3.668	0.2445
285	6FIT	Bis(5-adenosyl)-triphosphatase	10	2.439	0.2439
286	1NC3	5-methylthioadenosine/S-adenosylhomocysteine nucleosidase	16	3.9	0.2438
287	1M0U	Glutathione S-transferase S1	11	2.679	0.2436
288	1P6K	Nitric oxide synthase, brain	10	2.435	0.2435
289	1AQJ	Modification methylase TaqI	14	3.404	0.2432
290	1V4S	Glucokinase	10	2.431	0.2431
291	1MXI	Probable tRNA/rRNA methyltransferase HI0766	16	3.875	0.2422
292	1UB3	Lyase	14	3.389	0.2421
293	1U27	Cytohesin-2	20	4.824	0.2412
294	1BUC	Acyl-CoA dehydrogenase, short-chain specific	12	2.89	0.2408
295	1MC3	Glucose-1-phosphate thymidyltransferase 2	20	4.815	0.2407
296	1PPV	Isopentenyl-diphosphate Delta-isomerase	10	2.402	0.2402
297	1NZC	DTDP-4-dehydrorhamnose 3,5-epimerase Putative	14	3.362	0.2401
298	1J0A	1-aminocyclopropane-1-carboxylate deaminase	16	3.835	0.2397
299	1EYE	Dihydropteroate synthase 1	14	3.356	0.2397

