

Physicochemical Similarity Networks: a new approach to build protein similarity networks

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Supplementary Material 1

Table 1: The 120 enzymes from Glycoside Hydrolase Family 13 (GH13) adopted in the present work. Data were collected from the CAZy database (http://www.cazy.org/GH13_structure.html) [1].

Uniprot Accession Number	Species	EC Number Catalytic Group
Q9AJN7	<i>Arthrobacter ramosus</i>	5.4.99
I3NX86	<i>Deinococcus radiodurans</i>	5.4.99
D9MPF2	<i>Erwinia rhapontici</i>	5.4.99
Q8KR84	<i>Klebsiella sp.</i>	5.4.99

P9WQ19	<i>Mycobacterium tuberculosis</i>	5.4.99
A0R6E0	<i>Mycolicibacterium smegmatis</i>	5.4.99
Q2PS28	<i>Burkholderia ubonensis subsp. mesacidophila</i>	5.4.99
Q7LYV2	<i>Saccharolobus shibatae</i>	5.4.99
D0VX20	<i>Serratia plymuthica</i>	5.4.99
Q53688	<i>Sulfolobus acidocaldarius</i>	5.4.99
D1CE96	<i>Thermobaculum terrenum</i>	5.4.99
Q6L2Z7	<i>Picrophilus torridus</i>	5.4.99
P95869	<i>Saccharolobus solfataricus</i>	5.4.99
Q44315	<i>Arthrobacter sp.</i>	5.4.99
O52519	<i>Brevibacterium helvolum</i>	5.4.99
Q8NNR9	<i>Corynebacterium glutamicum</i>	5.4.99
C1D169	<i>Deinococcus deserti</i>	5.4.99
B5ABD8	<i>Enterobacter sp.</i>	5.4.99
Q6XNK5	<i>Erwinia rhapontici</i>	5.4.99
Q4L2Q1	<i>Klebsiella sp.</i>	5.4.99
B1PK99	<i>Meiothermus ruber</i>	5.4.99
B6ZIV0	<i>Nostoc punctiforme</i>	5.4.99
B8YM30	<i>Paenarthrobacter aurescens</i>	5.4.99
Q6XNK6	<i>Pantoea dispersa</i>	5.4.99
S5YEW8	<i>Pectobacterium carotovorum</i>	5.4.99
P72235	<i>Pimelobacter sp.</i>	5.4.99
A1XGB1	<i>Propionibacterium freudenreichii subsp. shermanii</i>	5.4.99
Q9LAS5	<i>Pseudomonas stutzeri</i>	5.4.99
Q6XKX6	<i>Raoultella planticola</i>	5.4.99
C1AZS6	<i>Rhodococcus opacus</i>	5.4.99
F2R410	<i>Streptomyces venezuelae</i>	5.4.99
Q47SE5	<i>Thermobifida fusca</i>	5.4.99
O06458	<i>Thermus thermophilus</i>	5.4.99
Q9RA59	<i>Thermus caldophilus</i>	5.4.99

Q5MCN4	<i>Thermus thermophilus</i>	5.4.99
Q6SZP7	<i>Metallosphaera hakonensis</i>	5.4.99
K9L0H1	<i>Anoxybacillus sp.</i>	3.2.1
P00692	<i>Bacillus amyloliquefaciens</i>	3.2.1
P21332	<i>Bacillus cereus</i>	3.2.1
P06278	<i>Bacillus licheniformis</i>	3.2.1
Q65MI2	<i>Bacillus licheniformis</i>	3.2.1
Q59226	<i>Bacillus sp</i>	3.2.1
P19571	<i>Bacillus sp.</i>	3.2.1
B3GQD0	<i>Bacillus sp.</i>	3.2.1
Q93I48	<i>Bacillus sp.</i>	3.2.1
C0SPA0	<i>Bacillus subtilis</i>	3.2.1
O06994	<i>Bacillus subtilis</i>	3.2.1
Q8A1G3	<i>Bacteroides thetaiotaomicron</i>	3.2.1
P21517	<i>Escherichia coli</i>	3.2.1
Q33E90	<i>Geobacillus sp.</i>	3.2.1
P06279	<i>Geobacillus stearothermophilus</i>	3.2.1
P38940	<i>Geobacillus stearothermophilus</i>	3.2.1
G8N704	<i>Geobacillus thermoleovorans</i>	3.2.1
H3K096	<i>Halomonas sp.</i>	3.2.1
Q8GPL8	<i>Halothermothrix orenii</i>	3.2.1
P04746	<i>Homo sapiens</i>	3.2.1
P00693	<i>Hordeum vulgare</i>	3.2.1
P04063	<i>Hordeum vulgare</i>	3.2.1
O48541	<i>Hordeum vulgare subsp. vulgare</i>	3.2.1
Q5FMB7	<i>Lactobacillus acidophilus</i>	3.2.1
B2IUW9	<i>Nostoc punctiforme</i>	3.2.1
P17654	<i>Oryza sativa subsp. japonica</i>	3.2.1
H2N0D4	<i>Oryzias latipes</i>	3.2.1
A0A0C5GWS2	<i>Paenibacillus barengoltzii</i>	3.2.1

P29957	<i>Pseudoalteromonas haloplanktis</i>	3.2.1
P53051	<i>Saccharomyces cerevisiae</i>	3.2.1
A3DM60	<i>Staphylothermus marinus</i>	3.2.1
Q99040	<i>Streptococcus mutans serotype c</i>	3.2.1
P00690	<i>Sus scrofa</i>	3.2.1
Q08751	<i>Thermoactinomyces vulgaris</i>	3.2.1
Q60053	<i>Thermoactinomyces vulgaris</i>	3.2.1
Q5JID9	<i>Thermococcus kodakarensis</i>	3.2.1
A0A059TXD8	<i>Thermotoga petrophila</i>	3.2.1
Q6UVM5	<i>Xanthomonas campestris pv. glycines</i>	3.2.1
Q7X8Q2	<i>Chlamydomonas reinhardtii</i>	3.2.1
K9L8F3	<i>Malbranchea cinnamomea</i>	3.2.1
P9WQ17	<i>Mycobacterium tuberculosis</i>	2.4.99
G7CL00	<i>Mycolicibacterium thermoresistibile</i>	2.4.99
Q9L1K2	<i>Streptomyces coelicolor</i>	2.4.99
F2R411	<i>Streptomyces venezuelae</i>	2.4.99
P30920	<i>Niallia circulans</i>	2.4.1
P05618	<i>Bacillus sp.</i>	2.4.1
A0ZZH6	<i>Bifidobacterium adolescentis</i>	2.4.1
Q1J0W0	<i>Deinococcus geothermalis</i>	2.4.1
Q9RVT9	<i>Deinococcus radiodurans</i>	2.4.1
Q9RX51	<i>Deinococcus radiodurans</i>	2.4.1
P07762	<i>Escherichia coli</i>	2.4.1
Q8L3E0	<i>Evansella clarkii</i>	2.4.1
P31797	<i>Geobacillus stearothermophilus</i>	2.4.1
P9WN45	<i>Mycobacterium tuberculosis</i>	2.4.1
Q9ZEU2	<i>Neisseria polysaccharea</i>	2.4.1
P43379	<i>Niallia circulans</i>	2.4.1
Q01401	<i>Oryza sativa subsp. japonica</i>	2.4.1
P04830	<i>Paenibacillus macerans</i>	2.4.1

D9TT09	<i>Thermoanaerobacterium thermosaccharolyticum</i>	2.4.1
P26827	<i>Thermoanaerobacterium thermosulfurigenes</i>	2.4.1
P80099	<i>Thermotoga maritima</i>	2.4.1
Q76LB0	<i>Xanthomonas campestris</i>	2.4.1
O66936	<i>Aquifex aeolicus</i>	2.4.1
P14014	<i>Bacillus licheniformis</i>	2.4.1
P27036	<i>Bacillus ohbensis</i>	2.4.1
P30921	<i>Bacillus sp.</i>	2.4.1
P09121	<i>Bacillus sp.</i>	2.4.1
O82984	<i>Bacillus sp.</i>	2.4.1
O30565	<i>Brevibacillus brevis</i>	2.4.1
P76041	<i>Escherichia coli</i>	2.4.1
P30538	<i>Geobacillus stearothermophilus</i>	2.4.1
Q9ZAQ0	<i>Geobacillus stearothermophilus</i>	2.4.1
P08704	<i>Klebsiella oxytoca</i>	2.4.1
Q59495	<i>Leuconostoc mesenteroides</i>	2.4.1
D7BAR0	<i>Meiothermus silvanus</i>	2.4.1
B2D1U4	<i>Paenibacillus sp.</i>	2.4.1
Q9XBR0	<i>Pelomonas saccharophila</i>	2.4.1
G0GBS4	<i>Spirochaeta thermophila</i>	2.4.1
P16954	<i>Synechococcus elongatus</i>	2.4.1
Q9ZTB7	<i>Hordeum vulgare</i>	2.4.1
Q9ZTB6	<i>Hordeum vulgare</i>	2.4.1
Q08130	<i>Manihot esculenta</i>	2.4.1
Q40663	<i>Oryza sativa</i>	2.4.1
Q8ZA75	<i>Yersinia pestis</i>	2.4.1

References

- [1] E. Drula, M. Garron, S. Dogan, V. Lombard, B. Henrissat, and N. Terrapon. The carbohydrate-active enzyme database: functions and literature. *Nucleic Acids Res.*, 50(D1):D571–D577, January 2022.