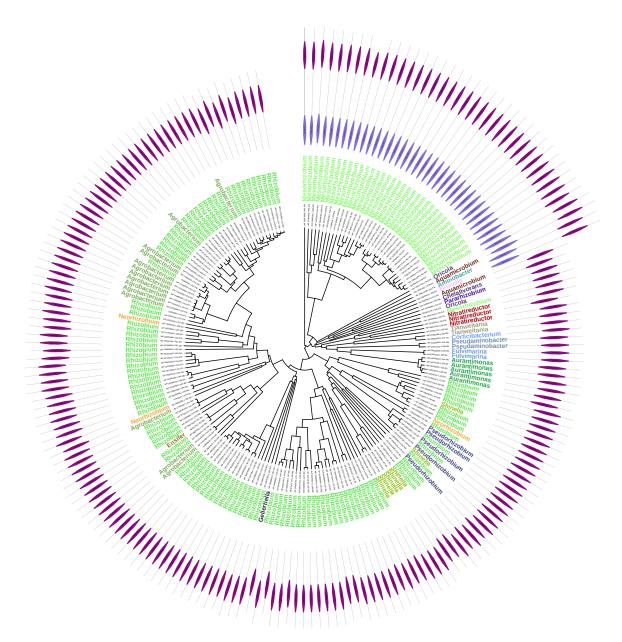
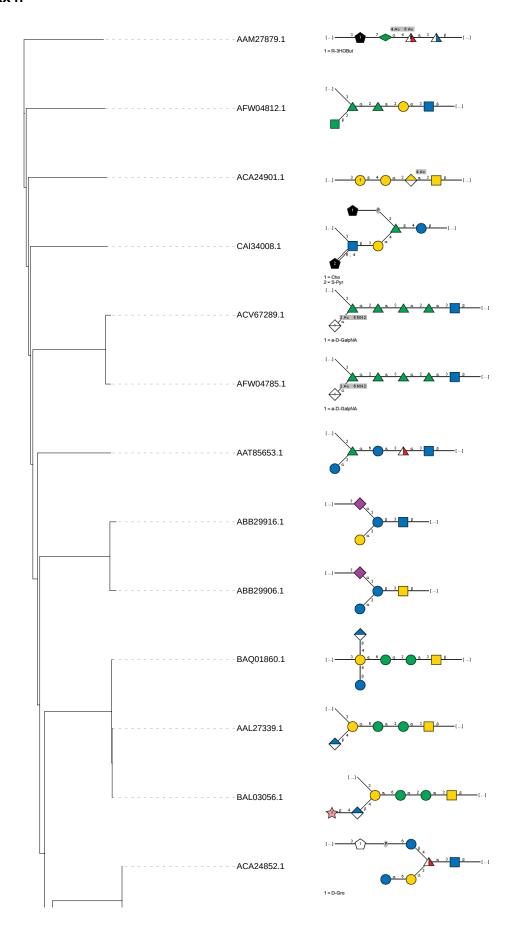


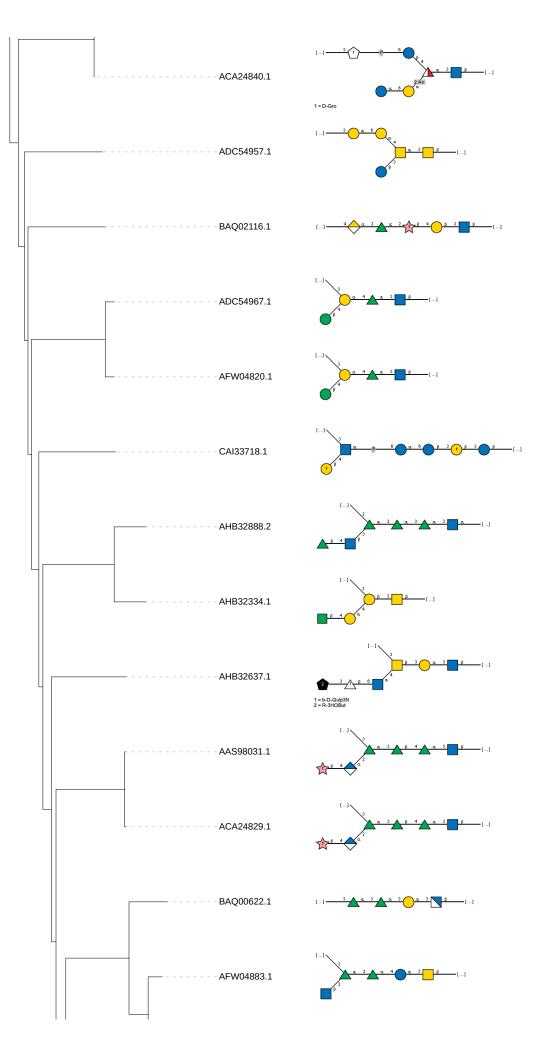
Supplementary Fig. 1. Aclust tree of representative O-Lig sequences. The four subfamilies are shown in red, green, turquoise, and yellow. Seed sequences are marked with a red bar.

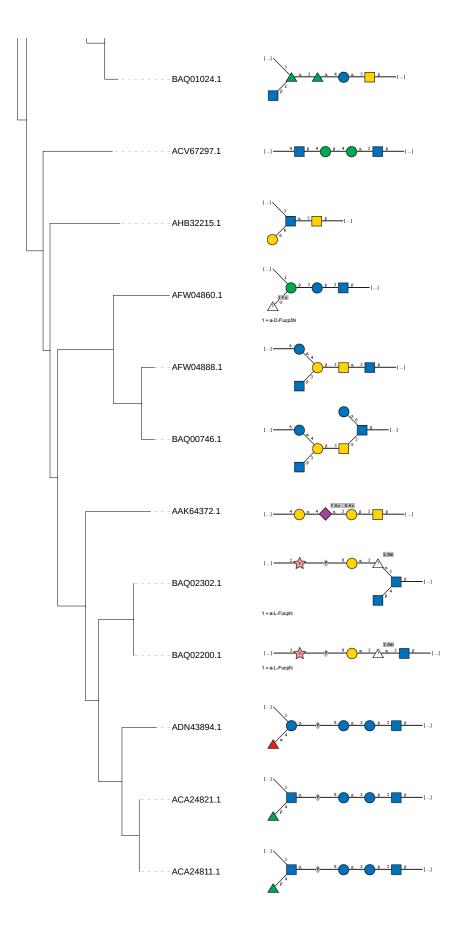


Supplementary Fig. 2. Phylogenetic tree of representative WadA homologs from the GTxx3 family, showing the taxonomic origin of the sequences and the domain modularity. N-terminal GT25 domains are shown in blue and GTxx3 domain in purple. The two-domain sequences segregate from proteins with a single domain GTxx3, suggesting co-evolution of the two domains.

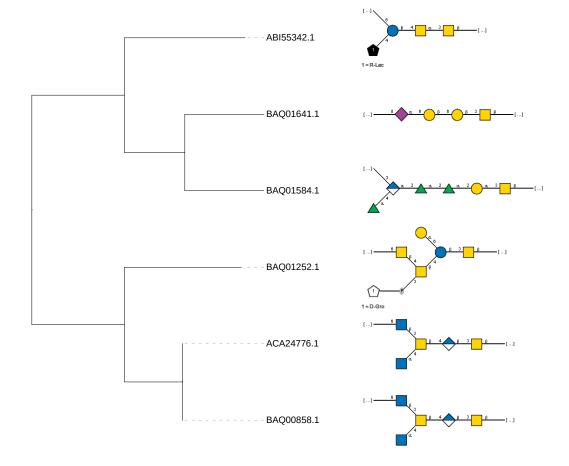
GTxx4:



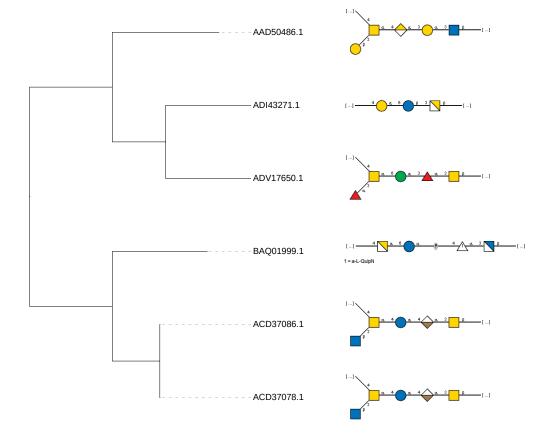




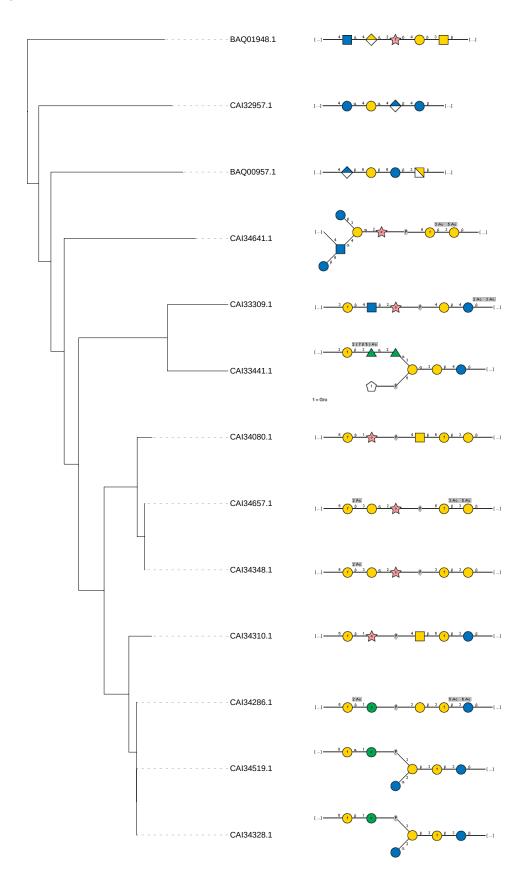
GTxx5:



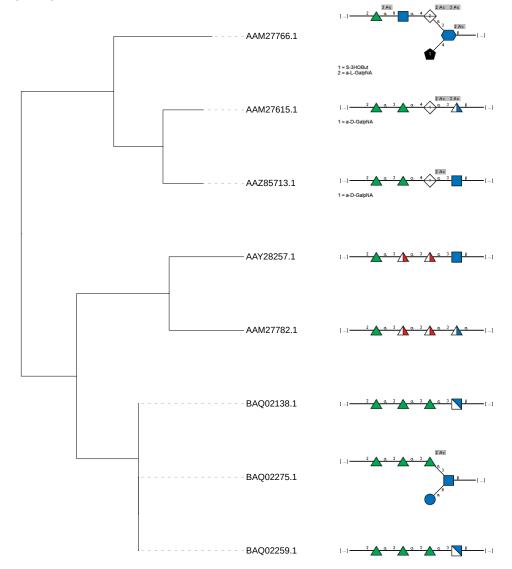
GTxx6:



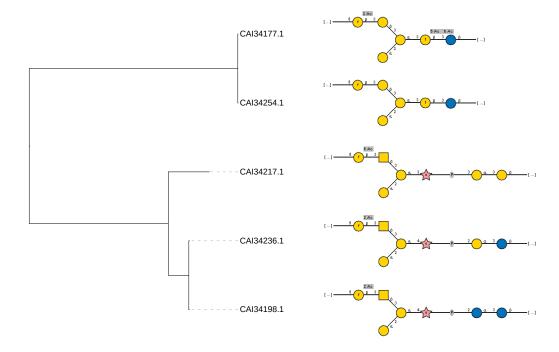
GTxx7:



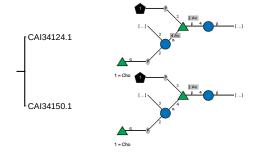
GTxx8:



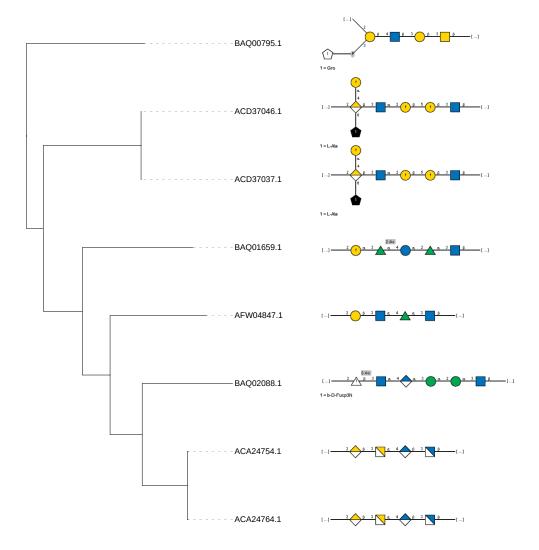
GTxx9:



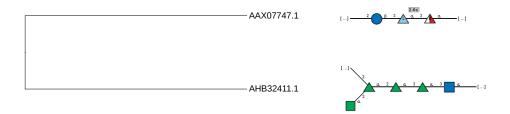
GTx10:



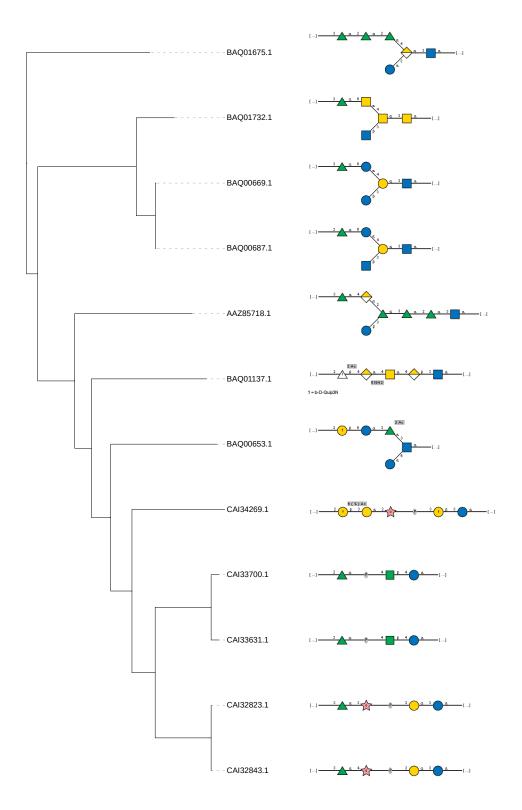
GTx11:



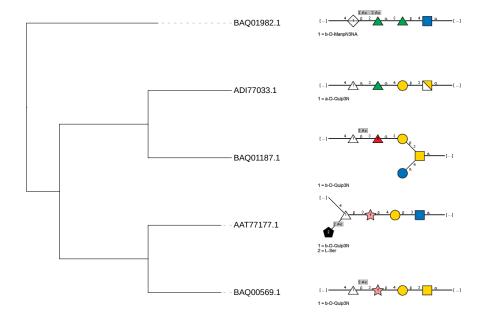
GTx12:



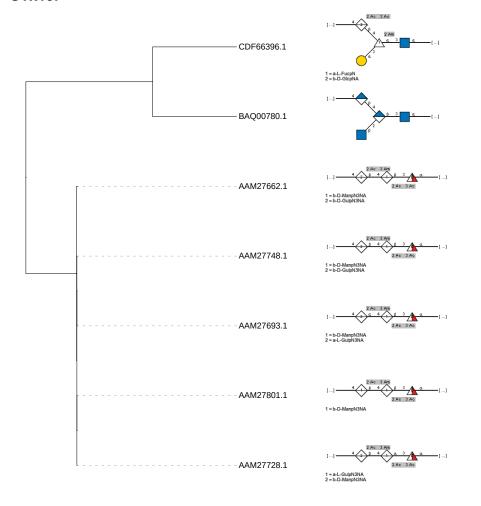
GTx13:



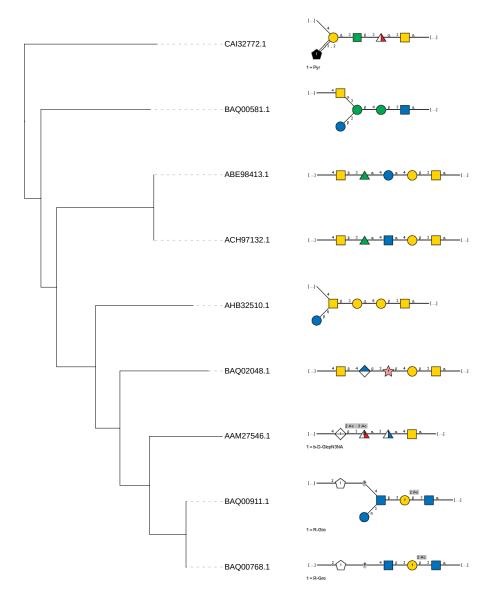
GTx14:



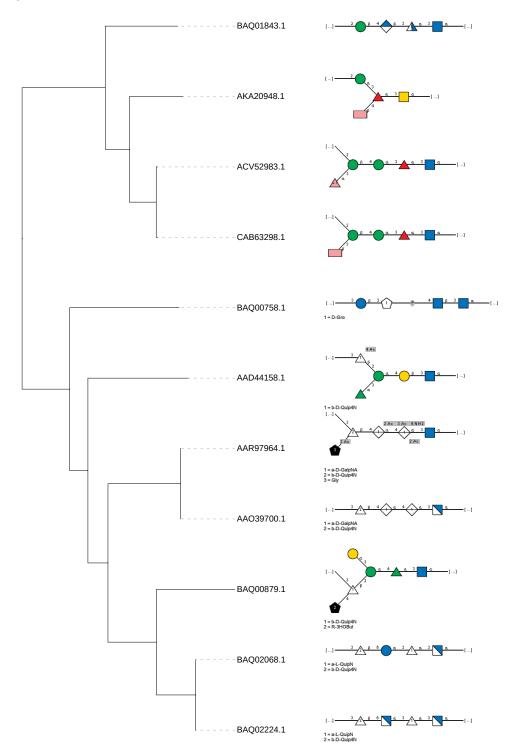
GTx15:



GTx16:



GTx17:



Supplementary Fig. 3. Phylogenetic trees of the BP-Pols in each family with structures of the corresponding sugar repeat units in SNFG format visualized using iTOL. The tree for GTxx4 is split in three pages due to its size.

Species	Accession number
Salmonella enterica	AAO71288.1
Salmonella enterica	AAV79366.1
Salmonella enterica	ACF62503.1
Salmonella enterica	ACF69468.1
Salmonella enterica	ACF92659.1
Salmonella enterica	CAR61594.1
Salmonella enterica	ACH77456.1
Salmonella enterica	CAR39498.1
Salmonella enterica	AAL22572.1
Vibrio cholerae	AAL76923.1
Taylorella equigenitalis	ADU91200.1
Haemophilus parainfluenzae	EGC72795.1
Aeromonas salmonicida	WP_005318160.1
Vibrio cholerae	AAL77359.1
Mycetohabitans rhizoxinica	CBW75858.1
Pectobacterium atrosepticum	CAG73082.1
Escherichia coli	AAB18599.1
Erwinia amylovora	CBA19033.1
Xenorhabdus bovienii	WP_012990589.1
Proteus mirabilis	CAR46213.1
Providencia rettgeri	EFE51464.1
Pseudomonas aeruginosa	AAG08384.1
Klebsiella pneumoniae	BAH65745.1
Vibrio cholerae	AAL77364.1
Leptospira borgpetersenii	WP_011670128.1
Escherichia coli	AAC69661.1
Escherichia coli	AAA24524.1
Salmonella enterica	AAA27206.1
Salmonella enterica	AAS22256.1
Salmonella enterica	NP_462613.1
Salmonella enterica	AAS22257.1
Escherichia coli	CAR10296.1
Escherichia coli	BAI33254.1
Escherichia coli	AAC69671.1
Escherichia coli	AAC69682.1
Cupriavidus metallidurans	WP_011517284.1
Escherichia coli	AAC69648.1

Supplementary Table 1. O-Lig seeds. List of seed sequences used for creation of the O-Lig family.

Species	Serotype	Accession number	CAZy family
Acinetobacter baumannii	01	AHB32215.1	GTxx4
Acinetobacter baumannii	02	AHB32538.1	
Acinetobacter baumannii	03	AHB32563.2	GTx11
Acinetobacter baumannii	04	AHB32666.1	
Acinetobacter baumannii	05	AHB32242.2	
Acinetobacter baumannii	06	AHB32267.1	
Acinetobacter baumannii	07	AHB32888.2	GTxx4
Acinetobacter baumannii	08	AHB32311.1	
Acinetobacter baumannii	010	AHB32411.1	GTx12
Acinetobacter baumannii	011	AHB32510.1	GTx16
Acinetobacter baumannii	012	AHB32774.1	
Acinetobacter baumannii	013	AHB32386.1	
Acinetobacter baumannii	014	AHB32687.1	GTxx5
Acinetobacter baumannii	015	AHB32490.1	GTx16
Acinetobacter baumannii	017	AHB32462.1	GTxx4
Acinetobacter baumannii	018	AHB32334.1	GTxx4
Acinetobacter baumannii	019	AHB32832.1	
Acinetobacter baumannii	O20	AHB32614.2	
Acinetobacter baumannii	021	AHB32283.1	GTxx4
Acinetobacter baumannii	022	AHB32438.2	
Acinetobacter baumannii	023	AHB32637.1	GTxx4
Acinetobacter baumannii	024	AHB32586.1	
Acinetobacter baumannii	025	AHB32861.1	GTxx4
Acinetobacter baumannii	O26	AHB32799.1	GTxx4
Acinetobacter baumannii	027	AHB32357.1	
Streptococcus pneumoniae	1	CAI32705.1	
Streptococcus pneumoniae	2	CAI32727.1	
Streptococcus pneumoniae	4	CAI32772.1	GTx16
Streptococcus pneumoniae	5	CAI32797.1	
Streptococcus pneumoniae	6A	CAI32823.1	GTx13
Streptococcus pneumoniae	6B	CAI32843.1	GTx13
Streptococcus pneumoniae	7A	CAI32867.1	
Streptococcus pneumoniae	7B	CAI32889.1	
Streptococcus pneumoniae	7C	CAI32910.1	
Streptococcus pneumoniae	7F	CAI32935.1	
Streptococcus pneumoniae	8	CAI32957.1	GTxx7
Streptococcus pneumoniae	9A	CAI32973.1	
Streptococcus pneumoniae	9L	CAI32993.1	
Streptococcus pneumoniae	9N	CAI33011.1	

	1		
Streptococcus pneumoniae	9V	CAI33029.1	
Streptococcus pneumoniae	10F	CAI33105.1	
Streptococcus pneumoniae	10A	CAI33048.1	
Streptococcus pneumoniae	10B	CAI34733.1	
Streptococcus pneumoniae	10C	CAI33084.1	
Streptococcus pneumoniae	11F	CAI33207.1	
Streptococcus pneumoniae	11A	CAI33128.1	
Streptococcus pneumoniae	11B	CAI33149.1	
Streptococcus pneumoniae	11C	CAI33169.1	
Streptococcus pneumoniae	11D	CAI33188.1	
Streptococcus pneumoniae	12F	CAI33278.1	
Streptococcus pneumoniae	12A	CAI33226.1	
Streptococcus pneumoniae	12B	CAI33252.1	
Streptococcus pneumoniae	13	CAI33309.1	GTxx7
Streptococcus pneumoniae	14	CAI33324.1	
Streptococcus pneumoniae	15F	CAI33412.1	
Streptococcus pneumoniae	15A	CAI33343.1	
Streptococcus pneumoniae	15B	CAI33366.1	
Streptococcus pneumoniae	15C	CAI33389.1	
Streptococcus pneumoniae	16F	CAI33466.1	
Streptococcus pneumoniae	16A	CAI33441.1	GTxx7
Streptococcus pneumoniae	17F	CAI33515.1	
Streptococcus pneumoniae	17A	CAI33491.1	
Streptococcus pneumoniae	18F	CAI33610.1	
Streptococcus pneumoniae	18A	CAI33537.1	
Streptococcus pneumoniae	18B	CAI33561.1	
Streptococcus pneumoniae	18C	CAI33585.1	
Streptococcus pneumoniae	19F	CAI33700.1	GTx13
Streptococcus pneumoniae	19A	CAI33631.1	GTx13
Streptococcus pneumoniae	19B	CAI33652.1	
Streptococcus pneumoniae	19C	CAI33675.1	
Streptococcus pneumoniae	20	CAI33718.1	GTxx4
Streptococcus pneumoniae	21	CAI33745.1	
Streptococcus pneumoniae	22F	CAI33798.1	
Streptococcus pneumoniae	22A	CAI33774.1	
Streptococcus pneumoniae	23F	CAI33862.1	
Streptococcus pneumoniae	23A	CAI33817.1	
Streptococcus pneumoniae	23B	CAI33840.1	
Streptococcus pneumoniae	24F	CAI33941.1	
Streptococcus pneumoniae	24A	CAI33890.1	
Streptococcus pneumoniae	24B	CAI33915.1	
Streptococcus pneumoniae	25F	CAI33983.1	GTx16

Streptococcus pneumoniae	25A	CAI33966.2	GTx16
Streptococcus pneumoniae	27	CAI34008.1	GTxx4
Streptococcus pneumoniae	28F	CAI34057.2	GTAX4
Streptococcus pneumoniae	28A	CAI34037.2	
Streptococcus pneumoniae	29	CAI34080.1	GTxx7
Streptococcus pneumoniae	31	CAI34080.1	G1XX/
Streptococcus pneumoniae	32F	CAI34150.1	GTx10
Streptococcus pneumoniae	32A	CAI34130.1 CAI34124.1	GTx10
Streptococcus pneumoniae	32A 33F	CAI34124.1 CAI34254.1	GTxx9
	33A	CAI34234.1 CAI34177.1	GTxx9
Streptococcus pneumoniae			
Streptococcus pneumoniae	33B	CAI34198.1	GTxx9
Streptococcus pneumoniae	33C	CAI34217.1	GTxx9
Streptococcus pneumoniae	33D	CAI34236.1	GTxx9
Streptococcus pneumoniae	34	CAI34269.1	GTx13
Streptococcus pneumoniae	35F	CAI34348.1	GTxx7
Streptococcus pneumoniae	35A	CAI34286.1	GTxx7
Streptococcus pneumoniae	35B	CAI34310.1	GTxx7
Streptococcus pneumoniae	35C	CAI34328.1	GTxx7
Streptococcus pneumoniae	36	CAI34369.1	GTxx7
Streptococcus pneumoniae	38	CAI34407.1	GTx16
Streptococcus pneumoniae	39	CAI34436.1	
Streptococcus pneumoniae	40	CAI34454.1	
Streptococcus pneumoniae	41F	CAI34498.1	
Streptococcus pneumoniae	41A	CAI34475.1	
Streptococcus pneumoniae	42	CAI34519.1	GTxx7
Streptococcus pneumoniae	43	CAI34544.1	GTxx7
Streptococcus pneumoniae	44	CAI34753.1	
Streptococcus pneumoniae	45	CAI34587.1	
Streptococcus pneumoniae	46	CAI34613.1	
Streptococcus pneumoniae	47F	CAI34657.1	GTxx7
Streptococcus pneumoniae	47A	CAI34641.1	GTxx7
Streptococcus pneumoniae	48	CAI34680.1	GTx10
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Yersinia pseudotuberculosis	O:1b	CAB63298.1	GTx17
Yersinia pseudotuberculosis	O:1c	ADI59429.1	
Yersinia pseudotuberculosis	O:2a	AAN23078.1	
Yersinia pseudotuberculosis	O:2b	ADI59445.1	
Yersinia pseudotuberculosis	O:2c	AKA20935.1	
Yersinia pseudotuberculosis	0:3	AKA20948.1	GTx17
Yersinia pseudotuberculosis	O:4a	AKA20966.1	
Yersinia pseudotuberculosis	O:4b	AAN23057.1	
Yersinia pseudotuberculosis	O:5a	AKA20981.1	

	_	T	T
Yersinia pseudotuberculosis	O:5b	AKA20999.1	
Yersinia pseudotuberculosis	0:6	AEP25500.1	
Yersinia pseudotuberculosis	0:7	AEP25477.1	
Yersinia pseudotuberculosis	0:8	AKL88154.1	
Yersinia pseudotuberculosis	O:9	CDF66396.1	GTx15
Yersinia pseudotuberculosis	O:10	ADX97403.1	
Yersinia pseudotuberculosis	0:11	ACV52983.1	GTx17
Yersinia pseudotuberculosis	0:12	AFV46136.1	GTxx4
Yersinia pseudotuberculosis	0:14	ACV53000.1	GTx17
Yersinia pseudotuberculosis	0:15	CAX18360.1	
Escherichia coli	01	ADC54929.1	
Escherichia coli	02	ADC54941.1	
Escherichia coli	03	ACH97152.1	
Escherichia coli	04	AAT85653.1	GTxx4
Escherichia coli	05	BAQ00569.1	GTx14
Escherichia coli	06	BAQ00581.1	GTx16
Escherichia coli	07	AAD44158.1	GTx17
Escherichia coli	010	BAQ00622.1	GTxx4
Escherichia coli	011	ADV17650.1	GTxx6
Escherichia coli	012	BAQ00634.1	
Escherichia coli	013	BAQ02138.1	GTxx8
Escherichia coli	015	AAV74543.1	
Escherichia coli	016	BAQ00653.1	GTx13
Escherichia coli	017	BAQ02105.1	
Escherichia coli	O18ab	BAQ00669.1	GTx13
Escherichia coli	O18ac	BAQ00687.1	GTx13
Escherichia coli	019	BAQ00705.1	GTx13
Escherichia coli	O20	BAQ00719.1	
Escherichia coli	021	ACH97162.1	
Escherichia coli	022	BAQ00736.1	
Escherichia coli	023	BAQ00746.1	GTxx4
Escherichia coli	024	ABB29906.1	GTxx4
Escherichia coli	O25	ADI43263.1	
Escherichia coli	O26	AAN60459.1	
Escherichia coli	027	ADI43271.1	GTxx6
Escherichia coli	O28ab	BAQ00758.1	GTx17
Escherichia coli	O28ac	BAQ00768.1	GTx16
Escherichia coli	029	ACA24852.1	GTxx4
Escherichia coli	000	BAQ00780.1	GTx15
	O30	DAQ00700.1	GINIS
Escherichia coli	O30 O32	ACD37058.1	GTXIS
Escherichia coli Escherichia coli		-	GTx11

Escherichia coli	O35	ACV67290.1	GTxx4
Escherichia coli	035	ACV67289.1 BAQ00830.1	GTXX4
Escherichia coli	037	BAQ00830.1	
Escherichia coli	037	BAQ00858.1	GTxx5
		-	
Escherichia coli	039	BAQ00879.1	GTx17
Escherichia coli	040	ACD37117.1	
Escherichia coli	041	BAQ00893.1	OT 16
Escherichia coli	042	BAQ00911.1	GTx16
Escherichia coli	043	BAQ00927.1	
Escherichia coli	O44	BAQ00945.1	
Escherichia coli	O45	AAX07747.1	GTx12
Escherichia coli	O46	BAQ00957.1	GTxx7
Escherichia coli	O48	BAQ00975.1	
Escherichia coli	O49	BAQ00994.1	
Escherichia coli	O50	BAQ01012.1	
Escherichia coli	051	BAQ01024.1	GTxx4
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Escherichia coli	O54	BAQ02116.1	GTxx4
Escherichia coli	O55	AAL67557.1	
Escherichia coli	O56	ABB29916.1	GTxx4
Escherichia coli	O58	ACA24882.1	
Escherichia coli	O59	AAV74376.1	
Escherichia coli	O61	ADJ19217.1	
Escherichia coli	O63	BAQ01097.1	
Escherichia coli	O64	BAQ01114.1	
Escherichia coli	O65	BAQ01137.1	GTx13
Escherichia coli	066	AAZ20761.1	
Escherichia coli	O68	BAQ01155.1	
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Escherichia coli	070	BAQ01187.1	GTx14
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Escherichia coli	075	ADC54967.1	GTxx4
Escherichia coli	076	BAQ01218.1	2
Escherichia coli	077	BAQ02177.1	
Escherichia coli	078	ACV67297.1	GTxx4
Escherichia coli	079	ACA24739.1	JIMT
Escherichia coli	080	BAQ01238.1	
Escherichia coli	081	BAQ01258.1	GTxx5
Escherichia coli	082	BAQ01232.1 BAQ01266.1	31773
Escherichia coli	082	BAQ01277.1	
Lacriericina Con	U63	DAQUIZ//.1	

Escherichia coli	084	BAQ01293.1	
Escherichia coli	085	ADC54974.1	
Escherichia coli	086	AAO37717.1	
Escherichia coli	087	ACA24901.1	GTxx4
Escherichia coli	088	BAQ01317.1	
Escherichia coli	090	BAQ01361.1	
Escherichia coli	091	AAK60458.1	
Escherichia coli	093	BAQ01386.1	
Escherichia coli	096	BAQ01419.1	
Escherichia coli	O98	ABB04486.1	
Escherichia coli	O100	BAQ01456.1	
Escherichia coli	O102	BAQ01494.1	
Escherichia coli	0103	AAS73171.1	
Escherichia coli	O104	AAK64372.1	GTxx4
Escherichia coli	O105	ACA24829.1	GTxx4
Escherichia coli	O106	BAQ02189.1	
Escherichia coli	0107	ACH97132.1	GTx16
Escherichia coli	O108	BAQ01516.1	
Escherichia coli	O109	ADR74237.1	
Escherichia coli	0110	BAQ01533.1	
Escherichia coli	0111	AAD46730.1	
Escherichia coli	O112ab	ACD37086.1	GTxx6
Escherichia coli	O112ac	BAQ01545.1	
Escherichia coli	0113	AAD50486.1	GTxx6
Escherichia coli	0114	AAT77177.1	GTx14
Escherichia coli	O115	ADN43838.1	
Escherichia coli	O116	BAQ01563.1	
Escherichia coli	0117	ABE98413.1	GTx16
Escherichia coli	O118	BAQ02200.1	GTxx4
Escherichia coli	O119	ADB02825.1	
Escherichia coli	O120	BAQ01584.1	GTxx5
Escherichia coli	0121	AAO39700.1	GTx17
Escherichia coli	0123	BAQ02224.1	GTx17
Escherichia coli	O124	BAQ02241.1	
Escherichia coli	O125	BAQ01598.1	
Escherichia coli	O126	ABE98419.1	
Escherichia coli	O127	BAQ01623.1	
Escherichia coli	O128	AAO37701.1	
Escherichia coli	O129	BAQ02259.1	GTxx8
Escherichia coli	O130	ACD37157.1	
Escherichia coli	0131	BAQ01641.1	GTxx5
Escherichia coli	0132	BAQ01659.1	GTx11

Escherichia coli	0133	BAQ01675.1	GTx13
Escherichia coli	0134	BAQ01687.1	
Escherichia coli	0135	BAQ02275.1	GTxx8
Escherichia coli	0136	BAQ01702.1	
Escherichia coli	0137	BAQ02286.1	
Escherichia coli	0138	AAZ85713.1	GTxx8
Escherichia coli	0139	AAZ85718.1	GTx13
Escherichia coli	0140	BAQ01716.1	
Escherichia coli	0141	ABI98976.1	
Escherichia coli	0142	BAQ01732.1	GTx13
Escherichia coli	0143	ACA24764.1	GTx11
Escherichia coli	0144	BAQ01743.1	GTxx5
Escherichia coli	0145	AAV74530.1	
Escherichia coli	0146	ABE98437.1	
Escherichia coli	0147	ABI98986.1	
Escherichia coli	0148	ABA42232.1	
Escherichia coli	0149	ABI98966.1	
Escherichia coli	0150	ACA24803.1	
Escherichia coli	0151	BAQ02302.1	GTxx4
Escherichia coli	0152	ACA24821.1	GTxx4
Escherichia coli	0153	BAQ01759.1	
Escherichia coli	0154	BAQ01780.1	
Escherichia coli	0155	AAV74550.1	
Escherichia coli	0156	BAQ01793.1	
Escherichia coli	0157	AAC32340.1	
Escherichia coli	0158	ADN43871.1	
Escherichia coli	0159	ACA24890.1	
Escherichia coli	O160	BAQ01812.1	
Escherichia coli	0161	ADJ19203.1	
Escherichia coli	0163	BAQ01843.1	GTx17
Escherichia coli	0164	BAQ02323.1	
Escherichia coli	O165	ADN43883.1	
Escherichia coli	O166	ADC54957.1	GTxx4
Escherichia coli	0167	ACD37046.1	GTx11
Escherichia coli	O168	ACD36996.1	
Escherichia coli	O169	BAQ01860.1	GTxx4
Escherichia coli	O170	BAQ01878.1	
Escherichia coli	0171	BAQ01894.1	
Escherichia coli	0172	AAT28922.1	
Escherichia coli	0173	ADN43894.1	GTxx4
Escherichia coli	0174	BAQ01907.1	
Escherichia coli	0175	BAQ01917.1	

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Escherichia coli	0176	BAQ01935.1	
Escherichia coli	0177	AAY28257.1	GTxx8
Escherichia coli	0178	BAQ01948.1	GTxx7
Escherichia coli	0179	BAQ01960.1	
Escherichia coli	0180	BAQ01982.1	GTx14
Escherichia coli	0181	BAQ01999.1	GTxx6
Escherichia coli	0182	BAQ02015.1	
Escherichia coli	0183	BAL03056.1	GTxx4
Escherichia coli	0184	BAQ02031.1	
Escherichia coli	0185	BAQ02048.1	GTx16
Escherichia coli	0186	BAQ02068.1	GTx17
Escherichia coli	0187	BAQ02088.1	GTx11
Shigella boydii	2	ACD37126.1	
Shigella boydii	3	ACD37037.1	GTx11
Shigella boydii	4	ABB65530.1	
Shigella boydii	5	AAL27327.1	
Shigella boydii	6	AAL27339.1	GTxx4
Shigella boydii	7	ACD37072.1	
Shigella boydii	8	ACA24754.1	GTx11
Shigella boydii	9	AAL27351.1	
Shigella boydii	11	AAS98031.1	GTxx4
Shigella boydii	12	ACD37026.1	
Shigella boydii	13	AAR24270.1	
Shigella boydii	14	ACD37051.1	
Shigella boydii	15	ACD37078.1	GTxx6
Shigella boydii	16	ABD19779.1	
Shigella boydii	17	ABI55342.1	GTxx5
Shigella flexneri	6	ABU80601.1	
Shigella dysenteriae	2	ACD37006.1	
Shigella dysenteriae	3	ACD37105.1	
Shigella dysenteriae	4	ACD36984.1	
Shigella dysenteriae	5	ACA24868.1	
Shigella dysenteriae	7	AAR97964.1	GTx17
Shigella dysenteriae	8	ACA24776.1	GTxx5
Shigella dysenteriae	9	ACD37111.1	
Shigella dysenteriae	10	ACA24912.1	
Shigella dysenteriae	11	ACA24840.1	GTxx4
Shigella dysenteriae	12	ACA24811.1	GTxx4
Shigella dysenteriae	13	ACA24792.1	
Pseudomonas aeruginosa	01	AAM27546.1	GTx16
Pseudomonas aeruginosa	02	AAM27728.1	GTx15
Pseudomonas aeruginosa	03	AAM27766.1	GTxx8

Pseudomonas aeruginosa	04	AAM27782.1	GTxx8
Pseudomonas aeruginosa	05	AAM27801.1	GTx15
Pseudomonas aeruginosa	09	AAM27879.1	GTxx4
Pseudomonas aeruginosa	010	AAM27560.1	
Pseudomonas aeruginosa	011	AAM27574.1	
Pseudomonas aeruginosa	012	AAM27595.1	
Pseudomonas aeruginosa	013	AAM27615.1	GTxx8
Pseudomonas aeruginosa	015	AAM27645.1	GTxx8
Pseudomonas aeruginosa	016	AAM27662.1	GTx15
Pseudomonas aeruginosa	018	AAM27693.1	GTx15
Pseudomonas aeruginosa	019	AAM27711.1	
Pseudomonas aeruginosa	O20	AAM27748.1	GTx15
Salmonella enterica	011	AFW04820.1	GTxx4
Salmonella enterica	021	AFW04741.1	
Salmonella enterica	O39	AFW04696.1	
Salmonella enterica	O40	AFW04706.1	GTx16
Salmonella enterica	042	AFW04812.1	GTxx4
Salmonella enterica	O43	AFW04802.1	
Salmonella enterica	O44	AFW04828.1	
Salmonella enterica	045	AFW04716.1	
Salmonella enterica	047	AFW04867.1	GTxx4
Salmonella enterica	O48	AFW04668.1	
Salmonella enterica	051	AFW04888.1	GTxx4
Salmonella enterica	052	AFW04790.1	
Salmonella enterica	053	AFW04837.1	
Salmonella enterica	057	AFW04883.1	GTxx4
Salmonella enterica	059	AFW04847.1	GTx11
Salmonella enterica	O60	AFW04860.1	GTxx4
Salmonella enterica	061	AFW04757.1	
Salmonella enterica	062	AFW04785.1	GTxx4
Salmonella enterica	063	AFW04735.1	
Salmonella enterica	065	AFW04684.1	
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Supplementary Table 2. BP-Pol seed. List of BP-Pol sequences that were considered in this work.