

>> Counting FFL types for E. coli

Index	X	Y	Z	Type	Comments
1	arcA	appY	appCBA	Coh-1	Anaerobic/stationary phase
2	crp	fucPIKUR	fucAO	Coh-1	Fucose utilization
3	crp	fur	cirA	Inc-1	Iron citrate uptake
4	crp	galS	mglBAC	Inc-1	Carbon utilization
5	crp	malI	malXY	Coh-4	Maltose utilization
6	crp	melR	melAB	Coh-1	Melibiose utilization
7	crp	caIF	caiTABCD	Coh-1	Carnitine metabolism
8	crp	caIF	fixABCX	Coh-1	Carnitine metabolism
9	crp	nagBACD	manXYZ	Inc-1	Carbon utilization
10	crp	nagBACD	nagE	Inc-1	Carbon utilization
11	crp	malT	malEFG	Coh-1	Maltose utilization
12	crp	malT	malK_lamF	Coh-1	Maltose utilization
13	crp	malT	malS	Coh-1	Maltose utilization
14	crp	araC	araBAD	Coh-1	Arabinose utilization
15	crp	araC	araE	Coh-1	Arabinose utilization
16	crp	araC	araFG_ara	Coh-1	Arabinose utilization
17	crp	araC	araJ	Coh-1	Arabinose utilization
18	flhDC	fliAZY	fliBCDEF	Coh-1	Flagella system
19	flhDC	fliAZY	fliBAE	Coh-1	Flagella system
20	flhDC	fliAZY	fliE	Coh-1	Flagella system
21	flhDC	fliAZY	fliFGHIJK	Coh-1	Flagella system
22	flhDC	fliAZY	fliLMNOPC	Coh-1	Flagella system
23	fnr	arcA	cydAB	Inc-3	Anaerobic metabolism
24	fnr	arcA	cyoABCDE	Coh-3	Anaerobic metabolism
25	fnr	arcA	focA_pflB	Coh-1	Anaerobic metabolism
26	fnr	arcA	glpACB	Inc-1	Anaerobic metabolism
27	fnr	arcA	icdA	Coh-3	Anaerobic metabolism
28	fnr	arcA	nuoABCEF	Coh-3	Anaerobic metabolism
29	fnr	arcA	sdhCDAB_	Coh-3	Anaerobic metabolism
30	himA	ompR_env	ompC	Coh-2	Osmotic stress response
31	himA	ompR_env	ompF	Inc-4	Osmotic stress response
32	hns	flhDC	fliAZY	Coh-1	Flagella master regulator
33	metJ	metR	metA	Coh-2	Methionine biosynthesis
34	ompR_env	csgDEFG	csgBA	Coh-1	Osmotic stress response
35	rob	marRAB	fumC	Coh-1	Drug repsonse
36	rob	marRAB	nfo	Coh-1	Drug repsonse
37	rob	marRAB	sodA	Coh-1	Drug repsonse
38	rob	marRAB	zwf	Coh-1	Drug repsonse
39	rpoN	fhlA	fdhF	Coh-1	Formate hydrogen lyase system
40	rpoN	fhlA	hycABCDE	Coh-1	Formate hydrogen lyase system
41	rpoN	glnALG	glnHPQ	Coh-1	Nitrogen utilization
42	rpoN	glnALG	nac	Coh-1	Nitrogen utilization

Results of counting FFL types:

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types: [1,2,3,4]

Coherent	28	2	4	1
Incoherent	5	0	1	1

>> Counting FFL types for *S. cerevisiae*

Index	X	Y	Z	Type	Comments
1	GAL11	ALPHA1	MFALPHA	Coh-1	response to pheromone during conjugation
2	GAT1	DAL80_G2	GAP1	Inc-1	Nitrogen utilization
3	GCN4	MET4	MET16	Coh-1	Metionine biosynthesis
4	GCN4	MET4	MET17	Coh-1	Metionine biosynthesis
5	GCN4	LEU3	ILV1	Coh-1	Leucine and branched amino acid biosynthesis
6	GCN4	LEU3	ILV2	Coh-1	Leucine and branched amino acid biosynthesis
7	GCN4	LEU3	ILV5	Coh-1	Leucine and branched amino acid biosynthesis
8	GCN4	LEU3	LEU4	Coh-1	Leucine and branched amino acid biosynthesis
9	GLN3	GAT1	GAP1	Coh-1	Nitrogen utilization
10	GLN3	GAT1	DAL80	Coh-1	Nitrogen utilization
11	GLN3	GAT1	DAL80	Coh-1	Glutamate synthetase
12	GLN3	GAT1	GLN1	Coh-1	Glutamate synthetase
13	GLN3	DAL80	GAP1	Inc-1	Nitrogen utilization
14	GLN3	DAL80	UGA4	Inc-1	Nitrogen utilization
15	GLN3	DAL80	CAN1	Inc-1	Nitrogen utilization
16	GLN3	DAL80	DAL1	Inc-1	Nitrogen utilization
17	GLN3	DAL80	DAL2	Inc-1	Nitrogen utilization
18	GLN3	DAL80	DAL3	Inc-1	Nitrogen utilization
19	GLN3	DAL80	DAL4	Inc-1	Nitrogen utilization
20	GLN3	DAL80	DAL5	Inc-1	Nitrogen utilization
21	GLN3	DAL80	DAL7	Inc-1	Nitrogen utilization
22	GLN3	DAL80	DCG1	Inc-1	Nitrogen utilization
23	GLN3	DAL80	DUR1	Inc-1	Nitrogen utilization
24	GLN3	DAL80	DUR3	Inc-1	Nitrogen utilization
25	GLN3	DAL80	GDH1	Inc-1	Nitrogen utilization
26	GLN3	DAL80	PUT1	Inc-1	Nitrogen utilization
27	GLN3	DAL80	PUT2	Inc-1	Nitrogen utilization
28	GLN3	DAL80	PUT4	Inc-1	Nitrogen utilization
29	GLN3	DAL80	UGA1	Inc-1	Nitrogen utilization
30	HAP1	ROX1	ERG11	Inc-1	Anaerobic metabolism
31	HAP1	ROX1	HEM13	Inc-1	Anaerobic metabolism
32	HAP1	ROX1	CYC7	Inc-1	Anaerobic metabolism
33	MIG1	HAP2_3_4	CYC1	Coh-2	formation of apocytochromes
34	MIG1	GAL4	GAL1	Coh-2	Galactokinase
35	MIG1	CAT8	JEN1	Coh-2	Lactate uptake
36	MIG2	CAT8	JEN1	Coh-2	Lactate uptake
37	PDR1	YRR1	SNQ2	Coh-1	Drug resistance
38	PDR1	YRR1	YOR1	Coh-1	Drug resistance
39	PDR1	PDR3	HXT11	Coh-1	Drug resistance
40	PDR1	PDR3	HXT9	Coh-1	Drug resistance
41	PDR1	PDR3	IPT1	Coh-1	Drug resistance
42	PDR1	PDR3	PDR5	Coh-1	Drug resistance
43	PDR1	PDR3	SNQ2	Coh-1	Drug resistance
44	PDR1	PDR3	YOR1	Coh-1	Drug resistance
45	RIM101	IME1	DIT1	Coh-1	DIT1 is a sporulation -specific gene
46	SPT16	SWI4_SWI	CLN1	Coh-1	Cell cycle and mating type switch
47	SPT16	SWI4_SWI	CLN2	Coh-1	Cell cycle and mating type switch
48	SPT16	SWI4_SWI	HO	Coh-1	Cell cycle and mating type switch
49	TUP1	RME1	IME1	Inc-2	Meiosis
50	TUP1	ALPHA1	MFALPHA	Coh-2	Mating factor alpha
51	TUP1	ROX1	ANB1	Inc-2	Ribosome component and cytochrome c isoform
52	TUP1	ROX1	CYC7	Inc-2	Ribosome component and cytochrome c isoform

53	UME6	INO2_INO·CHO1	Coh-1	Phospholipid biosynthesis
54	UME6	INO2_INO·CHO2	Coh-1	Phospholipid biosynthesis
55	UME6	INO2_INO·INO1	Inc-3	Phospholipid biosynthesis
56	UME6	INO2_INO·OPI3	Coh-1	Phospholipid biosynthesis

Results of counting FFL types:

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types: [1,2,3,4]

Coherent	26	5	0	0
Incoherent	21	3	1	0