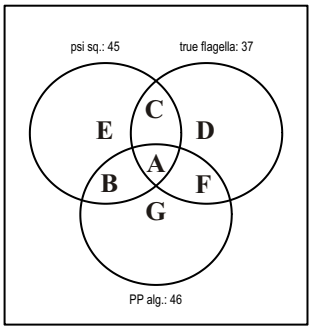
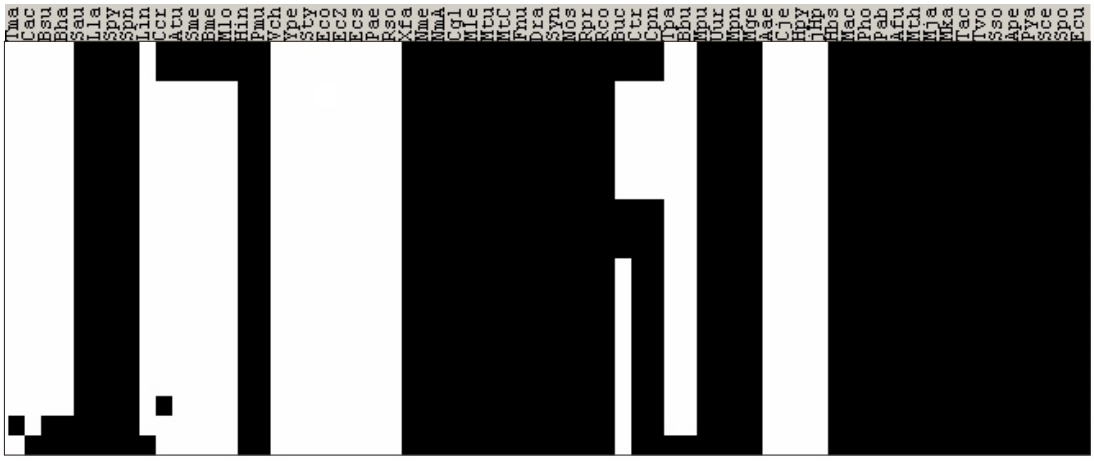


Figure. Proteins, associated with flagella phenotype, identified by simple psi-square and PP algorithms. Diagram: 45 COGs identified by psi-square when COG1298 was used as a query; 37 COGs related to flagella biogenesis and function; 46 COGs identified by PP algorithm

A



N_COG1345 Fl. capping
NUO_COG1516 FliS
NU_COG1157 Fl. bios
NU_COG1298 FlhA
NU_COG1338 FliP
NU_COG1886 Fl. motor
N_COG1536 Fl. motor
NU_COG1377 FlhB
N_COG1291 Fl. motor
N_COG1344 Flagellin
N_COG1360 Fl. motor
N_COG1558 Fl. rod
NU_COG1684 FliR
N_COG1256 Fl. hook
N_COG4786 Fl. rod
N_COG1843 Fl. hook
N_COG1815 Fl. body
NU_COG1766 Fl. lipopr.
N_COG1868 Fl. motor
N_COG1749 FlgE
N_COG2063 Fl. L-ring

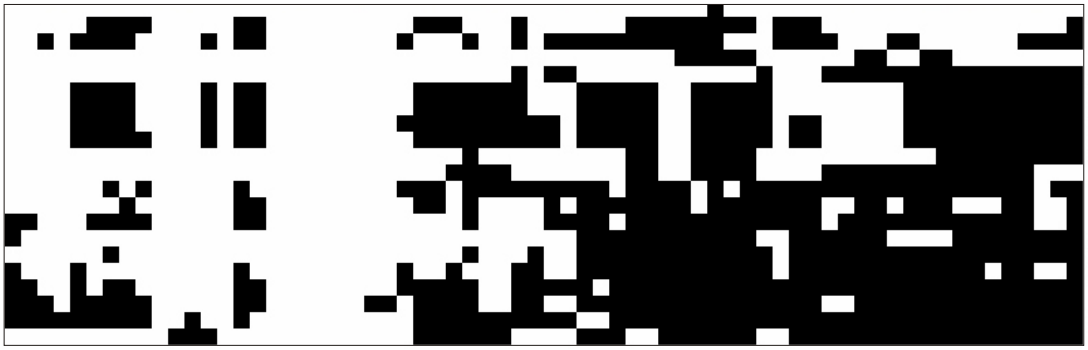
B, F

NT_COG0835 Chemotaxis
G_COG1486 Alpha-galactosidases
S_COG1671 Uncharacterized
N_COG4787 Fl. rod

C

N_COG1419 Fl. GTP-bind.
NU_COG1317 Fl. bios.
N_COG1580 Fl. body
NUO_COG2882 Fl. chaperone
NO_COG1261 Fl. P-ring
N_COG1706 Fl. P-ring
NU_COG1677 Fl. hook
NU_COG1987 Fl. FliQ

G



GEPR_COG0477 Permeases
O_COG0071 Small heat shock
O_COG1765 Redox_protein
LR_COG0494 NTP pyrophosphohydrolases
K_COG0782 Tr. elongation factor
NT_COG0643 Chemotaxis protein
NT_COG0840 Chemotaxis protein
NT_COG1352 Methylase of chemotaxis
NT_COG2201 Chemotaxis response
R_COG0628 Predicted permease
O_COG0760 Peptidyl-prolyl isomerase
G_COG0246 Mannitol-1-phosphate dehydr.
C_COG1902 NADH:flavin oxidoreductases
C_COG1018 Flavodoxin reductases
K_COG0583 Transcriptional regulator
K_COG2207 AraC-type DNA-bind.
E_COG2755 Lysophospholipase L1
F_COG2169 Adenosine deaminase
S_COG2968 Uncharacterized
M_COG3047 Outer membrane pr.
NU_COG2165 Pseudopilin PulG

E

K_COG1191 RNA pol. sigma subunit
K_COG1158 Tr. Termination factor
HI_COG1154 Deoxyxyl.-5-phosphate synthase
M_COG0860 N-acetylmuramoyl-L-alanine
K_COG1508 RNA pol. sigma54 homolog
T_COG1734 DnaK suppressor protein
T_COG2204 Resp. reg. cont. CheY
M_COG0741 Murein transglycosylase
O_COG1220 Protease HslVU (ClpYQ)
O_COG5405 Protease HslVU (ClpYQ)
R_COG4174 Transport system
R_COG4239 Transport system
S_COG3034 Uncharacterized