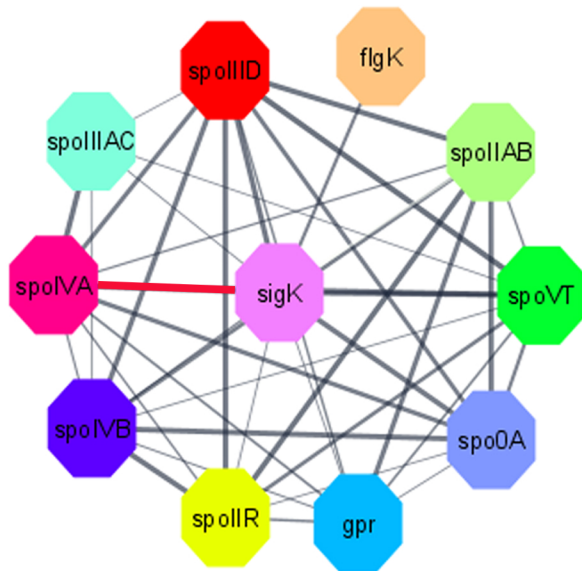
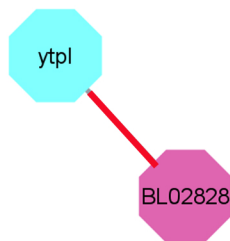


**Supplementary Figure S1:** Protein-protein interaction networks obtained from STRING analysis. Networks are visualized using Cytoscape (v 3.9.1).

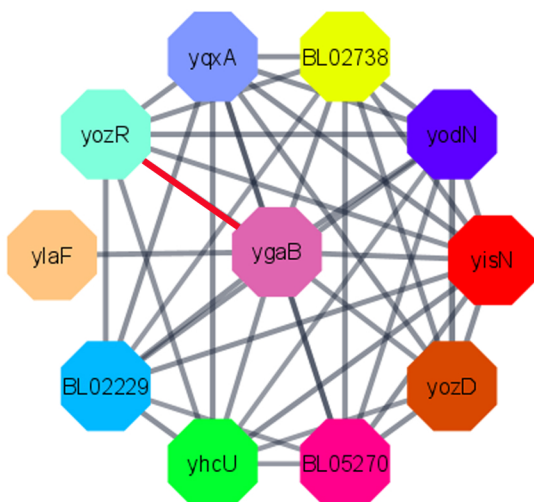
- \* Networks are presented in circular layout with **protein of study** in centre.
- \* Edge connecting the protein of study and its important functional partners (with highest score) is highlighted in **red**.
- \* Confidence score of the interaction is given in brackets.



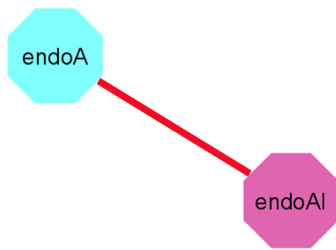
Study protein: WP\_095290960.1  
String protein: **sigK**  
Interacted protein: **spoIVA**  
Has a role at an early stage in the morphogenesis of the spore coat (0.930)



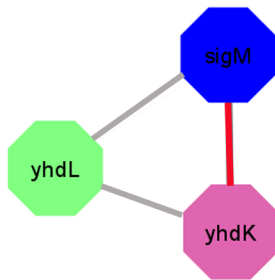
Study protein: WP\_026579962.1  
String protein: **BL02828**  
Interacted protein: **ytpl**  
Uncharacterized protein (0.930)



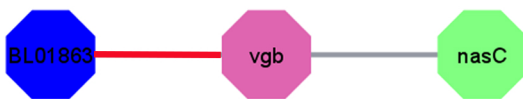
Study protein: WP\_003179940.1  
String protein: **ygaB**  
Interacted protein: **yozR**  
Involved in spore germination (0.777)



Study protein: WP\_006638778.1  
 String protein: **endoAI**  
 interacted protein: endoA  
 Putative rnase (0.988)



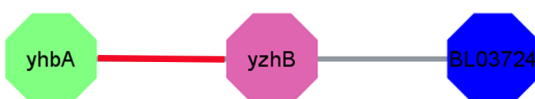
Study protein: WP\_003180123.1  
 String protein: **yhdK**  
 interacted protein: sigM  
 RNA polymerase sigma factor (0.921)



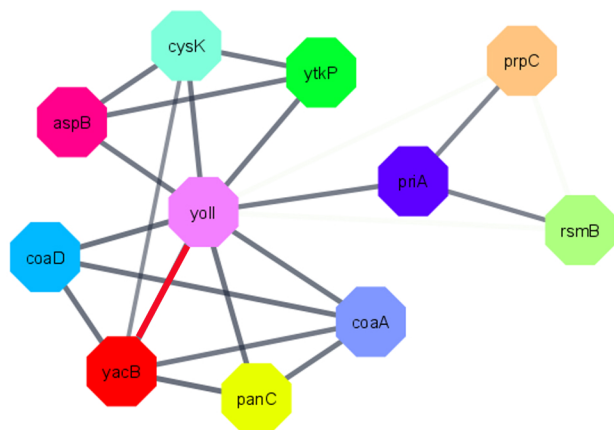
Study protein: WP\_025810847.1  
 String protein: **vgb**  
 Interacted protein: BL01863  
 Putative formate C-acetyltransferase (0.722)



Study protein: WP\_020450411.1  
 String protein: **ydjM**  
 Interacted protein: yoeB  
 endopeptidase inhibitor (0.713)



Study protein: WP\_105980832.1  
 String protein: **yzhB**  
 Interacted protein: yhbA  
 4Fe-4S cluster binding putative ferredoxin (0.747)



Study protein: WP\_009328837.1

String protein: **yolI**

Interacted protein: yacB

Catalyzes the phosphorylation of pantothenate (0.987)



Study protein: WP\_199792123.1

String protein: **yetA**

Interacted protein: YesY

Carbohydrate esterase (0.883)

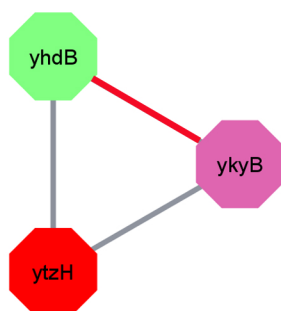


Study protein: WP\_020451108.1

String protein: **BL03737**

Interacted protein: BL03736

Uncharacterized protein (0.845)

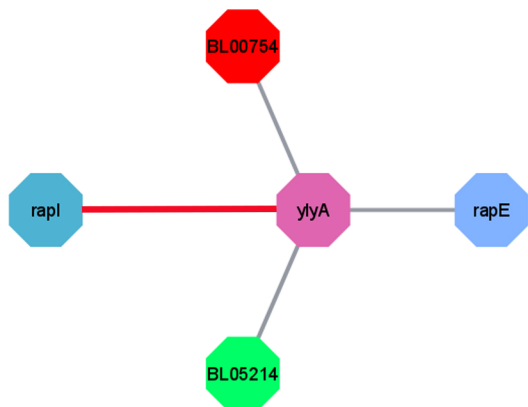


Study protein: WP\_020451191.1

String protein: **ykyB**

Interacted protein: yhdB

Uncharacterized protein (0.773)

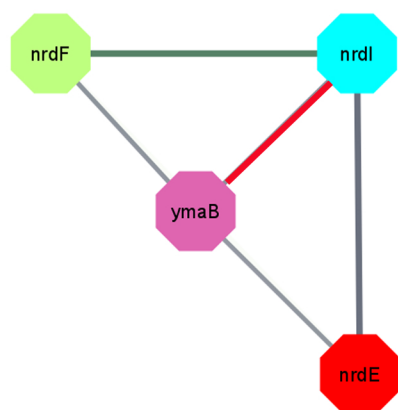


Study protein: WP\_026579751.1

String protein: **ylyA**

Interacted protein: rapI

Uncharacterized protein (0.716)

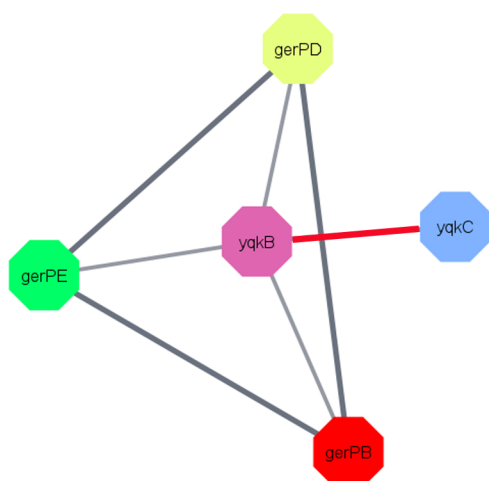


Study protein: WP\_105980957.1

String protein: **ymaB**

Interacted protein: Nrdi

Probably involved in ribonucleotide reductase function (0.771)

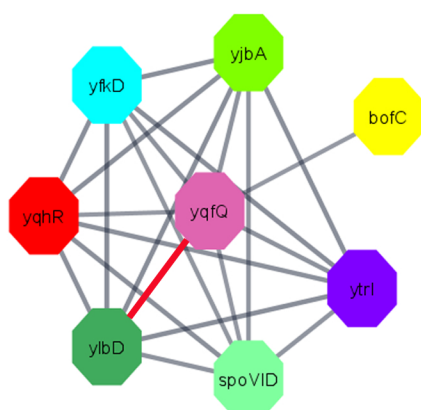


Study protein: WP\_020452052.1

String protein: **yqkB**

Interacted protein: yqkC

Uncharacterized protein (0.866)

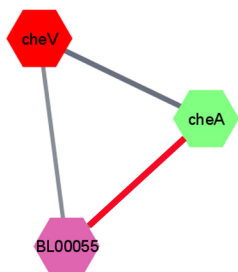


Study protein: WP\_026579290.1

String protein: **yqfQ**

Interacted protein: ylbD

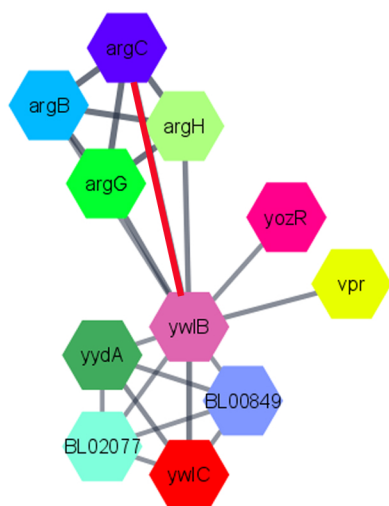
Uncharacterized protein (0.755)



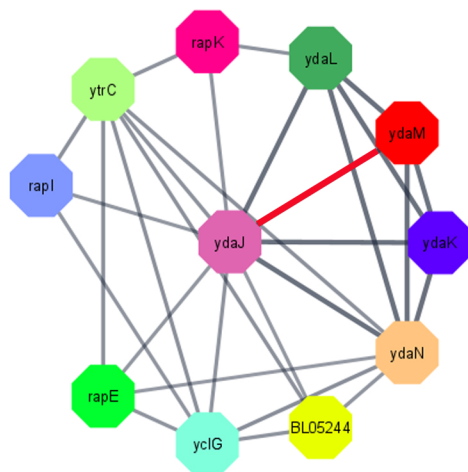
Study protein: WP\_234026546.1  
 String protein: **BL00055**  
 Interacted protein: CheA  
 Two-component sensor histidine kinase (0.876)



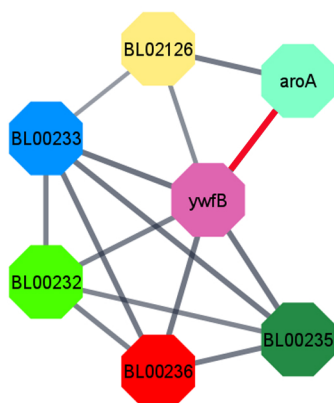
Study protein: WP\_023855527.1  
 String protein: **rapA**  
 Interacted protein: Raca  
 Required for the formation of axial filaments (0.836)



Study protein: WP\_023857076.1  
 String protein: **ywB**  
 Interacted protein: argC  
 N-acetylglutamate gamma-semialdehyde dehydrogenase (0.902)



Study protein: WP\_023856884.1  
 String protein: **ydaJ**  
 Interacted protein: ydaM  
 Uncharacterized protein (0.992)



Study protein: WP\_020453535.1  
 String protein: **ywfB**  
 Interacted protein: aroA  
 3-deoxy-D-arabino-heptulosonate 7-phosphate synthase and chorismate mutase-isozyme 3 (0.981)