**Protein sequences (E.coi YhcB):**

>WT

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v1

MTAEYALIALVVAIIIGAVAMAFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v2

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQAQALQYEAEKNKAELDEYAEAAVSHFARSA

ELLDTMAHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v3

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQQQALQYELEKNKAELDEYREELVSAAGRSG

EALATMGHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v4

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHAAAAAAQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v5

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHDYRQLYQAMGKAASSALAELSAEANAARNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

>yhcB-v6

MTWEYALIGLVVGIIIGAVAMRFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMAAAAAEG

AAALLRTGAKRD

>yhcB-v7

RFGNRKLRQQQALQYELEKNKAELDEYREELVSHFARSA

ELLDTMAHDYRQLYQHMAKSSSSLLPELSAEANPFRNRLAESEASNDQAPVQMPRDYSEG

ASGLLRTGAKRD

**Phosphotyrosine sites (E.coli YhcB):**

117: DY

74: LY

70: DY

36: QY

48: EY

Note: The crystal structure of YhcB is from different sp.