

40 Some of the processes involved in the production of insulin by genetic modification are listed.

- 1 cutting of bacterial plasmid DNA with restriction enzymes
- 2 expression in bacteria of the human gene to make insulin
- 3 insertion of recombinant plasmids into bacteria
- 4 multiplication of bacteria containing recombinant plasmids

In which order do these processes occur?

- A** 1 → 3 → 4 → 2
- B** 2 → 1 → 3 → 4
- C** 3 → 1 → 2 → 4
- D** 4 → 1 → 3 → 2

40 The diagram shows a bacterial cell.

Which cell structure makes bacteria useful in genetic modification?

