

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

- 1 insertion of the human insulin gene DNA into a cut bacterial plasmid
- 2 bacteria containing recombinant plasmids multiply and make human insulin
- 3 human insulin gene DNA is isolated using restriction enzymes
- 4 recombinant plasmids are inserted into bacteria

What is the sequence of these processes in genetic modification?

A 1 → 3 → 2 → 4

B 1 → 4 → 3 → 2

C 3 → 1 → 4 → 2

D 3 → 2 → 1 → 4