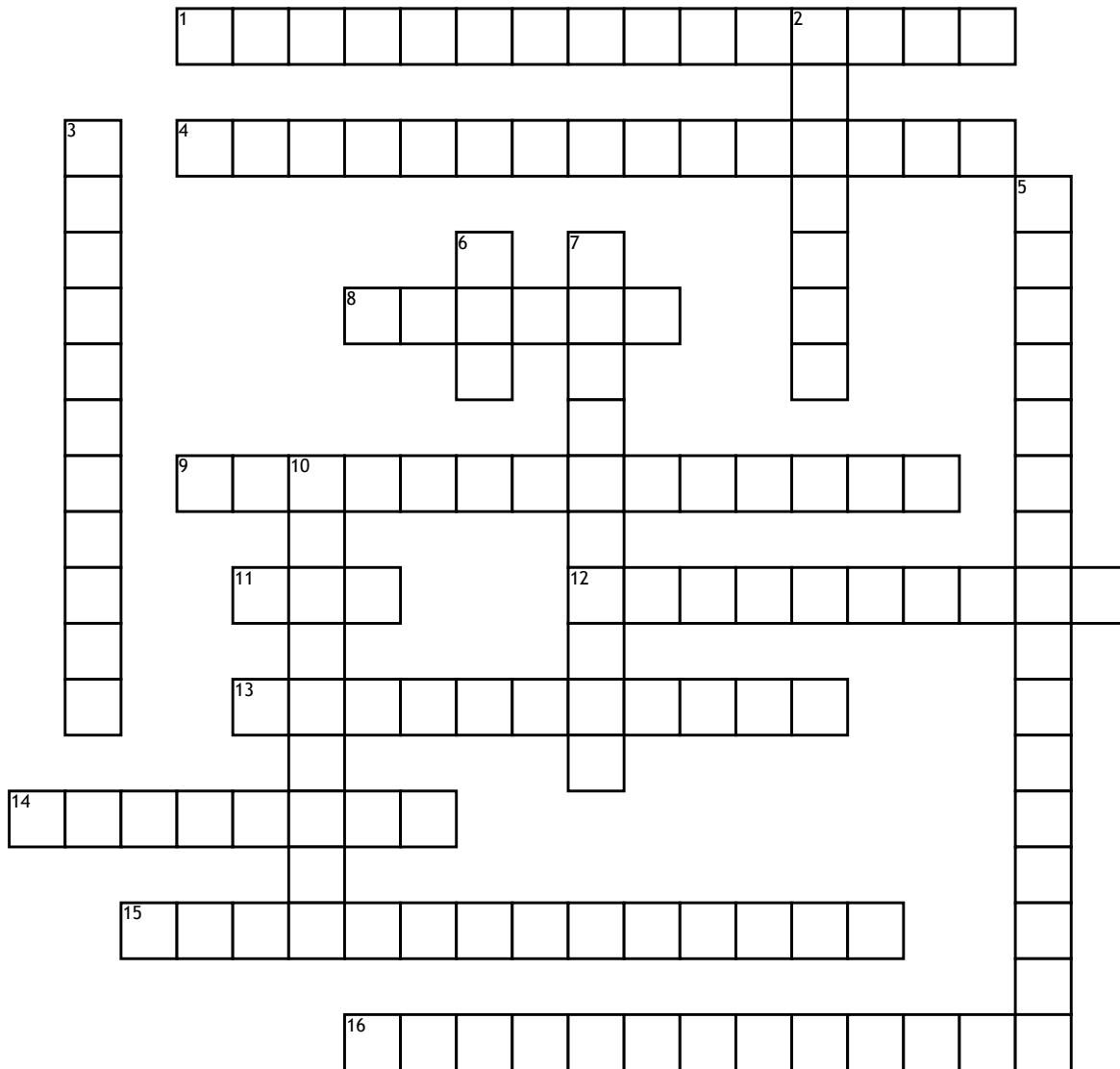


Manipulating DNA 8.1-8.4



Across

1. Sequence of bases that a restriction enzyme binds to
4. Large molecule that resembles a base pair, stains electrophoresis gel
8. DNA molecule that acts as a shuttle for foreign genetic material
9. DNA strand made of pieces from two or more sources
11. Synonym for transgenic organism

12. Grid of DNA fragments that acts as a test chip for gene expression
13. A new treatment option
14. Cell that has taken up a foreign plasmid or virus
15. Circular diagram that shows sites of restriction enzyme cuts

- Down
2. Gene therapy option that is not transferred to offspring

3. Genetically engineering organisms to produce new products
5. Reference points for measurements in gel electrophoresis
6. Process used to make a large number of DNA copies in a lab
7. The number of plasmid copies in a cell
10. Type of cell able to take up DNA from surroundings