PROJECT NUMBER

**22207, 22849**

# A scalable mRNA synthesis platform for manufacturing mRNAs with batch consistency and high translational output

A scalable mRNA synthesis platform for manufacturing mRNAs with batch consistency and high translational output.

**Applications:** Synthesis of next generation mRNA therapeutics: vaccine development, cancer therapeutics, rare genetic disorder therapeutics, personalised medicine

| Features | Benefits |
|---|---|
| mRNA template plasmid platform with a novel template encoded poly(A) design | Improved plasmid stability in bacterial host during propagation and subcloning |
| Flexible poly(A) tail length design | Streamlines quality control process |
| Proprietary 5’ and 3’ UTR sequences in combination with signal peptide sequences | Streamlines regulatory compliance |
| Highly modular plasmid design | Production of synthesis mRNAs with poly(A) tails up to ~200 nucleotides in length |
| | Maximising translational output |
| | Streamlines regulatory compliance |
| | High translational output of intracellular or secreted proteins |

| Features | Benefits |
| --- | --- |
| | Enables streamlined, speedy, and cost-effective manufacturing of novel/personalised mRNAs drugs |

## Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

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To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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