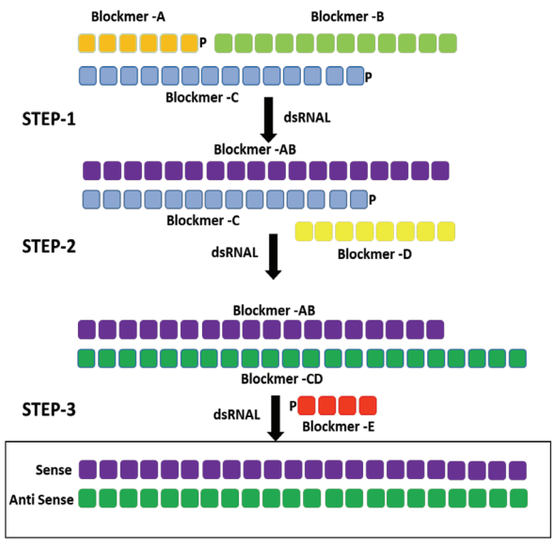
ALMAC

Partnering to Advance Human Health

Biocatalytic OligOnucleotide Synthesis Technology

Let Almac **BOOST** your oligo synthesis



Almac's '3-2-3-2' hybrid approach

Step 1 3 blockmers are annealed followed by ligation to form 2 RNA pieces

Step 2 Another blockmer is added, annealed and ligated

Step 3 Sequential addition of blockmers followed by annealing and ligation to allow formation of target duplex

Our capabilities:

- Enzymatic synthesis of single & double-stranded RNA oligos
- Convergent synthesis using ligase enzymes
- Ligase enzyme screening & engineering
- Target sequence ligation retrosynthesis
- Solution phase batch reactions
- Ligase reaction process development

Why choose a biocatalysis route for oligonucleotide synthesis?

- Higher purity profile
- Potential to produce optical pure oligonucleotide
- IPC during ligation reaction
- Reduction in solvent use
- Convergent synthesis
- Widen supply chain opportunities
- Utilise existing assets

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