



Clickmer Systems

Fully synthetic antibody analogues

Are you struggling with antibodies in your immunoassay development?

Are you looking for novel antibody analogue technology that utilizes Nobel Prize-winning chemistry to use on your platform?

Do you need reliable performance in every batch?

Clickmers may provide the solution you need!



What are Clickmers?

Synthetic antibody analogues known as Clickmers are chemically modified ssDNA oligonucleotides that, based on their sequence and modifications, form three-dimensional structures that adaptively bind to their target molecules with high affinity and specificity.

The introduction of side chains/modifications through the **Nobel Prize-winning** 'Click' chemistry provides increased chemical variability and flexibility compared to standard aptamers, which increases the probability of developing an excellent target binder.

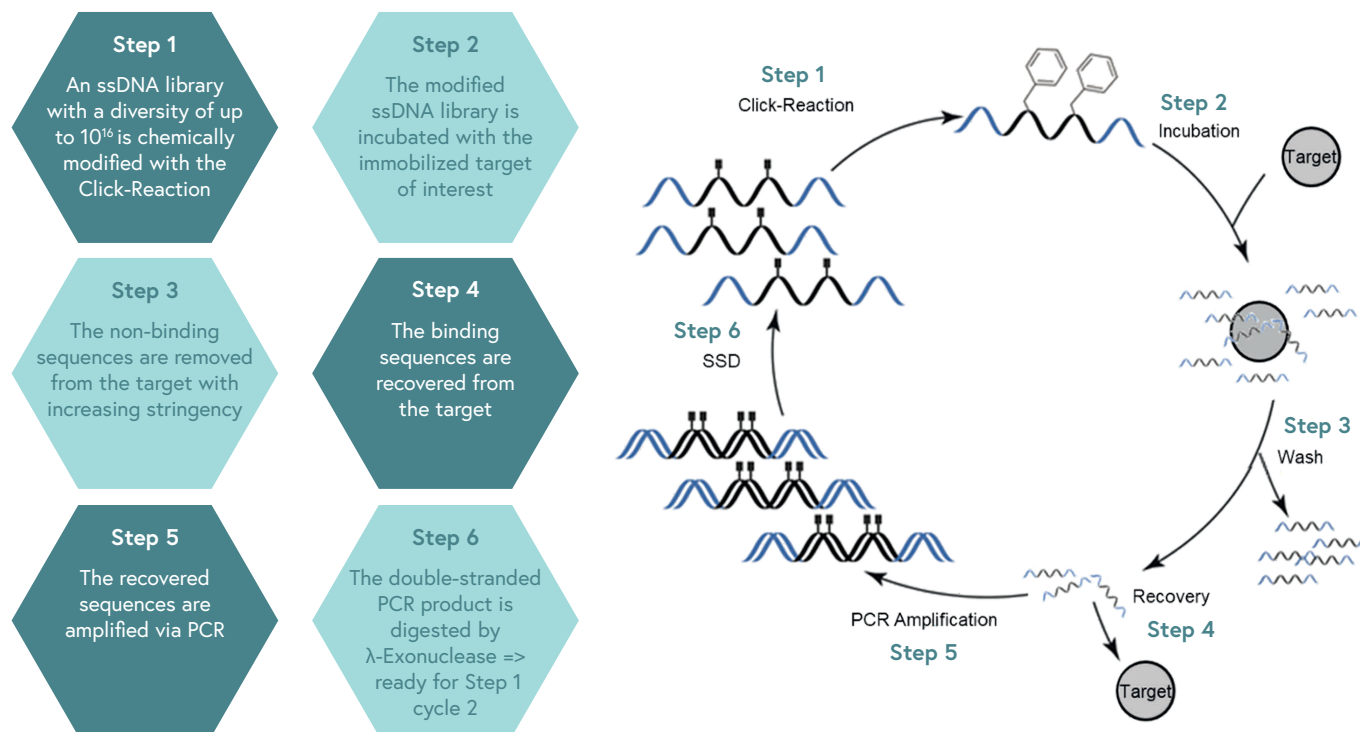
Advantages of Clickmers:

- 1 Chemical synthetic synthesis for improved batch-to-batch continuity
- 2 Fast turnaround time: Clickmers can be selected within a few weeks with subsequent characterization bespoke to meet client's requirements
- 3 Ethical development - no animal testing required
- 4 Flexible assay read-out: enzymatic, fluorescent or even RT-qPCR-based according to the client's needs

How are Clickmers selected?

Our proprietary Click-SELEX is an *in vitro* evolutionary process of iterative cycles for the selection of Clickmers, which are consequently isolated and enriched through PCR to generate a pool of specific target-binding Clickmers (see below).

A major benefit of the SELEX process is the ability to adapt the selection to meet client requirements, e.g. by selecting a Clickmer in the presence of different mediums, for example, human serum.



Custom Clickmer Development

Clickmer development is available to integrate into our client's platform or to integrate as part of our Contract Assay Development service

- 1 Clickmers provide next-generation antibody-analogue tools that are enabling researchers and diagnostic developers to overcome the limitations of antibody-based technologies and batch-to-batch variability
- 2 Our Clickmer Systems Development Service offers a structured milestone-defined development pipeline that is focused on understanding client requirements and project aims
- 3 Contact one of our experts today, to start the conversation about how you can integrate Clickmers that utilise Nobel Prize-winning 'Click' chemistry into your technology now

User Requirements & Project Design

Target Feasibility & Purification

Clickmer SELEX: *in vitro* Selection

Clickmer Characterisation & Optimisation

Assay Development