



AlfaCell

Fluorescent Site-specific Integration Cell Line Development Platform

Great Bay Bio developed a proprietary AlfaCell platform that applies Site-Specific Integration (SSI) technology and AI-enabled cell selection to accurately insert the target genes into specific “hot spot” within the genome of a host cell line, AlfaCell platform significantly reduces time, manpower, and cost that are associated with the development of high-performance mammalian cell lines.



Double Fast



Fast to obtain RCB
1.5 months

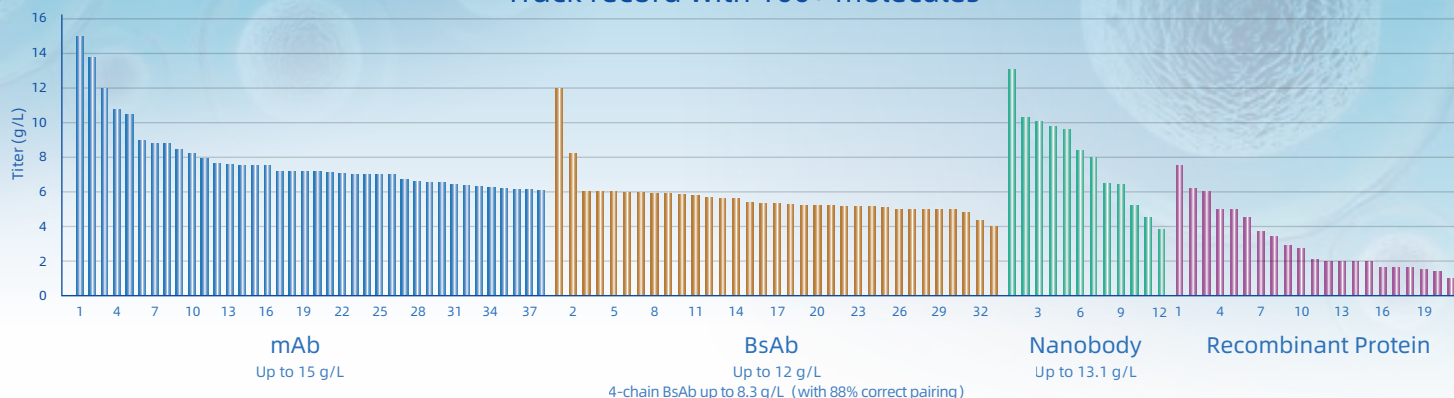


Fast to evaluate product qualities
1 month



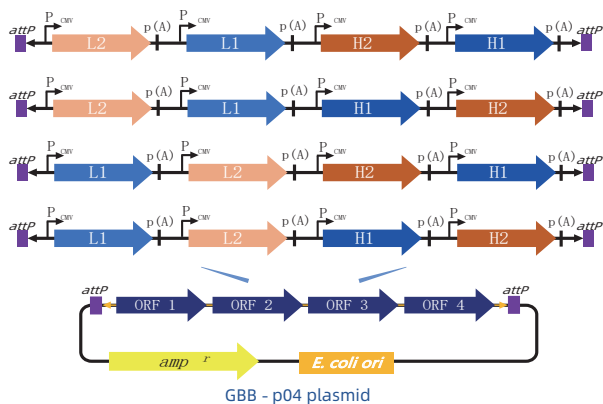
High Titer / Quality

Track record with 100+ molecules



Structure	Product	MW (KDa)	AlfaCell Titer (g/L)	Correct Pairing
	mAb (IgG)	147	16.2	-
	2-chain BsAb (IgG-scFv)	200	5.5	100%
	3-chain BsAb (Y-Body)	126	5.6	84%
	4-chain BsAb (KIH+Cross Mab)	150	8.3	88%
	Nanobody (BsAb-Nanobody)	38	13.1	100%

Technology Highlights



- **High Titer:** Single-vector design overcomes co-transfection efficiency challenges, enabling high yield.
- **Low Mismatching Rate:** Precisely controls light-to-heavy chain expression ratio, reducing mismatching and ensuring high quality.

Business Model



Service

From DNA to RCB in 1.5 months.



Out-licensing

Host cell line, vector, protocols, side by side support to ensure successful implementation.



With Your Host Cells

Apply proprietary SSI technology and AI-enabled cell selection to customer host cell line.

GBB Great Bay Bio
AI Advance Bioprocessing

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