Lead Identification - Variant Screening

Selexis SURE*variant* Screening[™]

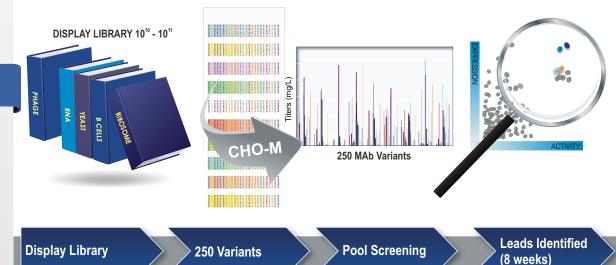
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Selexis Lead Identification Strategy:

- Weeds out candidates that cannot be easily expressed in mammalian cells
- Allows promising candidates (highly active) that would be lost (not highly expressed) to cross the threshold of expression and be detected
- Determines the values of mammalian protein modifications early
- 4. Ensures a steady supply of preclinical material
- Significantly reduces development time and costs by eliminating the need for repeated transient transfections
- Reduces manufacturing issues through early selection of candidates that are readily expressed
- 7. Eliminates unforeseen complications that can occur on transfer from HEK293 expression to CHO expression
- 8. Promotes faster, more informed decision-making

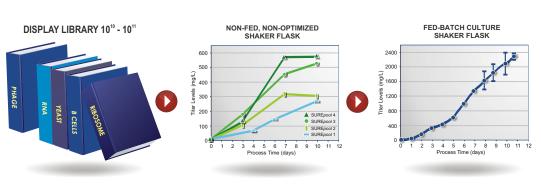


Pick the Best Antibody for Improved Clinical Success



Cells, used as factories producing drugs, are critically important instruments employed in almost every aspect of biologics drug discovery, development and manufacturing. The Selexis SURE*technology* Platform™, in addition to significantly improving manufacturing cell line development, has been adapted to speed identification and development of novel biotherapeutics while still reducing the time and costs associated with entering pre-IND enabling studies.

Selexis' SURE*variant* screening[™] accelerates and improves outcomes from displayed library selection campaigns by reducing the time and the number of steps to identify potential lead candidates. The SURE*variant* screening[™] platform used at Selexis can generate panels of up to 500 CHO-M cell pools (SURE*pools*[™]), each expressing different protein variants. Typical expression levels in the supernatants (SURE*natants*[™]) for MAbs vary between 50-500 mg/L. The SURE*natants*[™] containing the recombinant proteins expressed with mammalian post-translational modifications can be readily assessed for activity. Subsequently, Selexis SURE*pools*[™] top candidates can be banked (stored) and then reused for further assays. The top SURE*pool*[™] candidate is transferred to the Selexis' SURE Cell line Development platform to generate a high producing clonal cell line ready for cGMP manufacturing. This procedure ensures perfect match between preclinical and clinical material notably including glycan analysis. The entire process from SURE*variant* screening[™] to the clonal cell line can be as short as 14 weeks. **Selexis SURE***variant* **screening** can reduce your development costs by over \$500,000 per clinical candidate!



SUREvariant SCREENING

Up to 500 variants screened for ACTIVITY and EXPRESSION at the same time

SUREpools

Typical MAb expression levels up to 500 mg/L 5 weeks from transfection

SUREclones

Typical fed-batch expression levels
> 2 grams of protein
5 weeks post screening

