

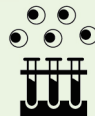
Affinity maturation is used to improve antibody affinity and binding interactions to target antigens.

FCMES-AM™ (Full Coverage Mammalian Expression System for Affinity Maturation) is Biointron's proprietary platform for affinity maturation. Each amino acid in the CDR region will be mutated to 17 others. The clones will be expressed in a mammalian system, and an ELISA binding assay will be conducted as an initial test. This is followed by SPR or FACS for further affinity measurements.

ANTIBODY AFFINITY MATURATION



Proprietary platform
FCMES-AM®

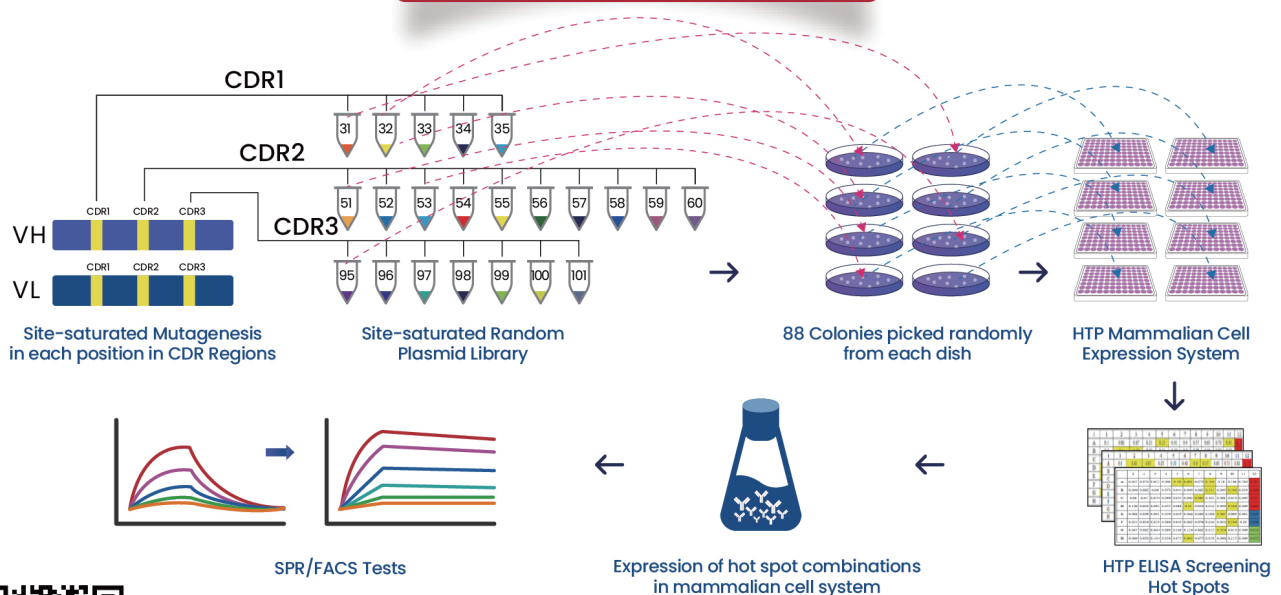


Non-biased site saturation
mutagenesis in CDR regions



Guaranteed at least 5-fold
affinity improvement

WORKFLOW



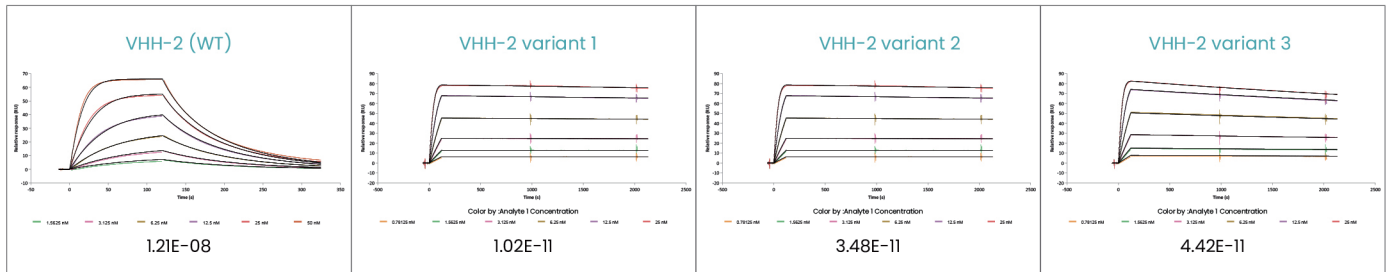
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CASE STUDY

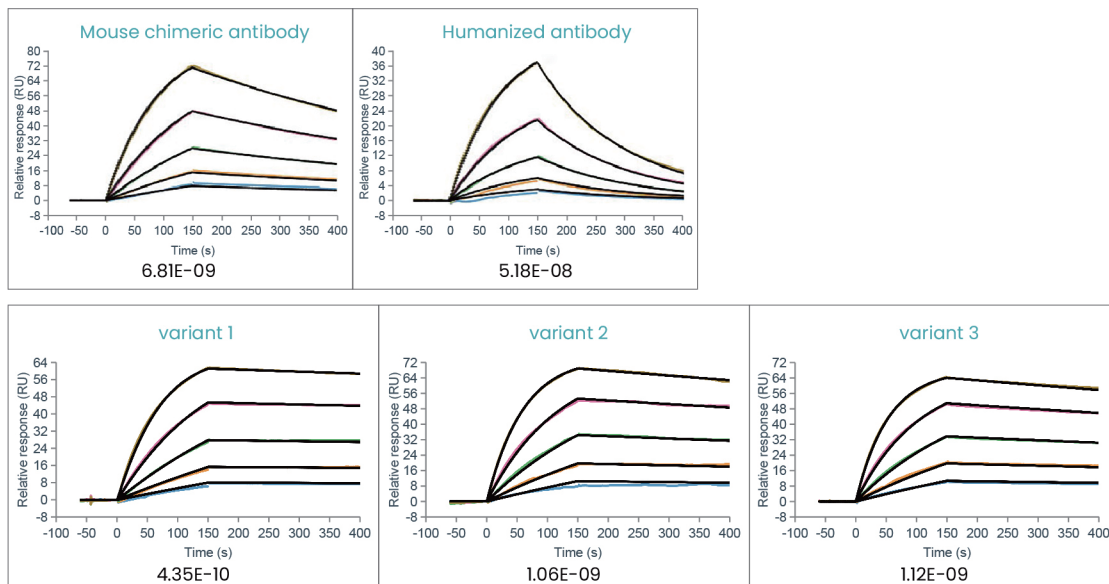
Case 1: VHH

The affinity increases 1186-fold, 348-fold and 274-fold separately.



Case 2: Mouse IgG

The affinity increases 120-fold, 48-fold and 46-fold separately.



Case 3: For antigens of different species

