

CLAIMS

1. An engineered Chinese Hamster Ovary (CHO) cell, comprising within its genome at least one transgene integrated into a genomic locus, in which the locus comprises the nucleotide sequence of positions 29521 to 39747 of SEQ ID NO: 1, and in which the sequence
5 is endogenous to the CHO cell.
2. An engineered CHO cell according to Claim 1, in which the cell is a CHO-K1 cell.
3. An engineered CHO cell according to Claim 1 or 2, in which the at least one transgene encodes a protein of interest.
4. An engineered CHO cell according to Claim 3, in which the protein of interest is an
10 antibody or an antibody fragment.
5. An engineered CHO cell according to any preceding claim, in which the locus further comprises the nucleotide sequence of positions 29520 to 30520 of SEQ ID NO: 2, in which the sequence is endogenous to the CHO cell.
6. A cell population comprising engineered CHO cells according to any preceding claim.
- 15 7. A cell population according to Claim 6, in which the at least one transgene is integrated into the locus in more than 20% of the cells within the population.
8. A method for producing an engineered CHO cell, comprising integrating at least one transgene into the genome of a CHO cell within a genomic locus comprising the nucleotide sequence of positions 29521 to 39747 of SEQ ID NO: 1, in which the sequence is endogenous
20 to the CHO cell.
9. A method according to Claim 8, in which the integration is performed using a site-specific nuclease or nickase system.
10. A method according to Claim 9, in which the site-specific nuclease or nickase system is a CRISPR-based system.
- 25 11. A method according to Claim 8, 9 or 10, further comprising modulating a DNA repair pathway (DRP) in the CHO cell to favour integration of the transgene into the locus.

12. A method according to Claim 11, in which the DRP is microhomology-mediated end-joining (MMEJ) or homologous recombination (HR).

13. A kit for introducing at least one transgene into a CHO cell, comprising:

(a) a vector encoding a nuclease or nickase targeting a locus comprising the
5 nucleotide sequence of positions 29521 to 39747 of SEQ ID NO: 1; and

(b) instructions for transfecting the CHO cell with the at least one transgene.