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<th>Title</th>
<th>Advances in the genomics and metabolomics of dairy lactobacilli: A review</th>
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Existing CRISPR locus

New repeat

Leader

Existing CRISPR locus

New spacer

CRISPR locus with new spacer acquired

Foreign DNA

Phage DNA enters the cell

Transcription and maturation of crRNA

CrRNA

Cas nuclease

Activated Cas complex

Phage DNA degradation, no phage assembly

Phage DNA

Cas9

guide RNA

Cas9 – gRNA complex

DBS cleavage site

Homology directed repair

Donor DNA

Nonhomologous end joining

Indel mutation