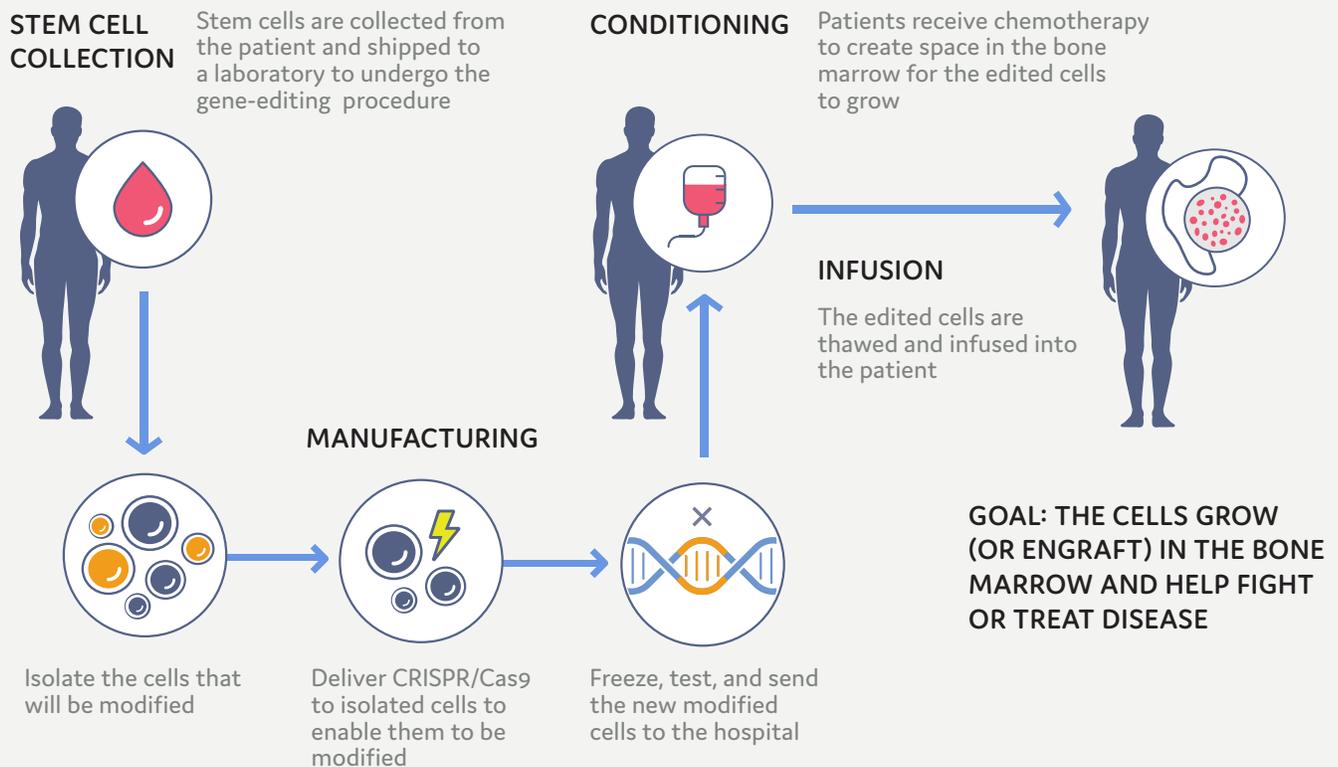


# Get The Facts on Gene Editing

Gene editing allows scientists to change DNA, whether by adding, removing, or modifying precise portions of DNA in the genome, which is the complete set of DNA in an organism.<sup>1</sup>

**CRISPR/Cas9** is a gene-editing tool. It has two parts: the Cas9 enzyme and a guide RNA. The guide RNA is a type of RNA molecule that binds to Cas9 and tells it the location to cut the DNA to have the desired effect.

## How Gene-edited Cells are Made and Administered



This gene-editing approach is being investigated in clinical trials; its safety and efficacy have not been established and it is not approved for use in patients in the United States or any other country.

### REFERENCE

1. Genomic research: What are genome editing and CRISPR/Cas9? Lister Hill National Center for Biomedical Communications, U.S. National Library of Medicine, National Institutes of Health, Department of Health & Human Services. June 23, 2020. Accessed June 25, 2020. <https://ghr.nlm.nih.gov/primer/genomicresearch/genomeediting>



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