



## Cell line mutant in the R2-box region of the R2 gene

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A CRISPR-Cas9<sup>®</sup> engineered cell line carrying a mutation in the R2-box region of the R2 gene (within the ERE-homologous 5'UTR) exhibits markedly reduced R2 transcript and protein levels. These cells display slower growth and severely impaired HBV infection and replication, making them a valuable model for studying R2 regulation, HBV infection, and pathogenesis.

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|--------------------------|-----------------------------|
| <i>Organism</i>          | <i>Human (H. sapiens)</i>   |
| <i>Tissue</i>            | <i>Liver</i>                |
| <i>Donor History</i>     | <i>Hepatoma</i>             |
| <i>Growth Properties</i> | <i>Adherent, epithelial</i> |

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