

CR109 – Cisterna hEPO mRNA: expresses human erythropoietin (EPO) that contains a N-terminal signal peptide (838 nucleotides)

Cap1GGACUCUUCUGGUCCCCACAGACUCAGAGAGAACCCACCAUGGGCGUGCACGAGUGCCCCGCC
UGGCUGUGGCUGCUGUUAUCUCUGCUGUCCUGCCCCUGGGCCUGCCUGUGCUGGGAGCCCCUCC
UAGACUGAUCUGCGACAGCAGAGUUCUGGAAAGAUACCGUGCUGGAGGCCAAAGAAGCAGAAAAUA
UCACAACCGGCUGCGCCGAGCACUGCAGCCUGAACGAGAACAUCACAGUGCCCGACACAAAGGUGAA
CUUCUACGCCUGGAAGCGGAUGGAAGUGGGCCAGCAGGCCGUCGAGGUGUGGCAGGGCCUGGGCC
UGCUGUCUGAAGCUGUGCUGCGGGGACAAGCUCUGCUGGUGAACAGCAGCCAGCCUUGGGAGCCU
CUGCAGCUGCACGUGGACAAGGCCGUGUCCGGCCUGCGGAGCCUCACCACCCUGCUGAGAGCCUG
GGCGCCAGAAAGAGGCCAUCAGCCUCCAGAUGCCGCCAGCGCCGUCCUCUCAGAACCAUCACCG
CCGACACCUUCAGAAAGUUGUUCGGGUGUACAGCAACUUUCUGAGAGGCAAGCUGAAGCUGUAU
ACCGGCGAGGCUUGUAGAACAGGAGAUAGGUGACUCGAGGCUGGAGCCUCGGUGGCCAUGCUUCU
UGCCCCUUGGGCCUCCCCCAGCCCCUCCCUUCCCUUCCUGCACCCGUACCCCGUGGUCUUUGAAUA
AAGUCUGAGUGGGCGGCAAA
AA

References -

- 1) Jacobs, K., Shoemaker, C., Rudersdorf, R., Neill, S. D., Kaufman, R. J., Mufson, A., Seehra, J., Jones, S. S., Hewick, R., Fritsch, E. F., Kawakita, M., Shimizu, T., & Miyake, T. (1985). Isolation and characterization of genomic and cDNA clones of human erythropoietin. *Nature*, 313(6005), 806–810. <https://doi.org/10.1038/313806a0>
- 2) Kormann, M. S. D., Hasenpusch, G., Aneja, M. K., Rudolph, C., et al. (2011). Expression of therapeutic proteins after delivery of chemically modified mRNA in mice. *Nature Biotechnology*, 29(2), 154–157. <https://doi.org/10.1038/nbt.1733>
- 3) NCBI RefSeq: NM_000799.4 – Homo sapiens erythropoietin (EPO), mRNA. https://www.ncbi.nlm.nih.gov/nuccore/NM_000799

Note: The human EPO coding sequence (NCBI Gene ID: 2056, UniProt: P01588) is a naturally occurring human gene. This sequence is provided for research use only and is not intended for diagnostic or therapeutic applications without appropriate regulatory approvals.