

CFR22 – Cisterna OpenCRISPR-1 mRNA: expresses OpenCRISPR-1 protein that contains two NLS at N- and C-terminus (4459 nucleotides)

Cap1GGACUCUUCUGGUCCCCACAGACUCAGAGAGAAGCCACCAUGGCCCCUAAGAAAAAGCGAAAA
GUGAUGAAGAAGCCUUAUCCAUCGGCUUGGACAUCGGGACUAACUCCGUCGGAUGGGCUGUGAU
UACCGACGACUACAAGGUUCCCGCAAAAAAGAUGAAAGUGCUCGGCAAUACAGAUCCGUCACAUUU
AAGAAGAACCUGAUUGGCGCUCUGCUUUUUCGAUGCAGGUAUACUGCCGAGGAUAGGCGCCUCAAG
AGAACAGCCCGGCGUAGAUACACUCGCAGAAGGAACCGGAUUCUGUACCUGCAAGAAUUUUUUGCU
GAAGAAAUGAAUAGAUCGAUGAGUCAUUUCCACCGACUGGACGAUAGUUUCCUGGUACCUGAA
GACAAAAGGGGAUCCAAGUACCCCAUUUUUUGCCACACUCCAAGAAGAGAAGGAGUACCACAAGCAAU
UUCCGACCAUCUACCACCUUAGGAAGCAGCUGGCAGAGUCCAACGAAAAGGCAGACUUGCGGUUAG
UCUACCUGGCUCUUGCACACAUGAUAAAGUACCGGGGACAUUUUUAUUGACGACCCUAAGUUUA
AAGUUCAGAAUAACGAUAUUAAGGCCUCUUCGAAAAGUUUGUUGAGGAUAUGAUAAACGUACAA
GAAACCUCUUUGUCUAAAAUUAAGCUCAAUGUGACUGAGAUCUCACAGCAAAGAUUCCCAAAAGC
GAGAAACAAGAGCAACUCCUGAAGAACUACCCUAGUGAGAAAAAGAACACCCUUUUUGGCAUUCUGA
UCGGGCUCGCCCUGGGCCUGACACCUAACUUAACAAAUUUCUCCCUGGAGAACGACGCCAAGCU
GCAAAUCUCAUCCGAGAGUUACGAGGAAGACUUAAGGAUCUCUCCUCGCACUGAUUUGGAGAAAACUU
CAUUGAACUCUUCUCCGCCGUGAAAAAUCUGAGUGACGGCAUCCUUCUGGCCGGAAUCGUCUCUGA
CGAGAGUCCCCACGCGCCGUGAGCACAAGAUGGUCAUCCGGUUAAGAGACGAAGAAGAUUCUC
GCGGCACUCAAAAUUUCAUCAAGCCAACUUGCCAGAAAAAUACGAUGAAGUAUUCUCCGACGAUA
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GUACCAGGUGCACCUCGAAGAAAUGAAAGCCAUUCUGCAGAACCAGGGGGAAUACUAUCCAUUCUC
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GCAUCGAAGUGGUACAAAAGCGUAAGGCCUUCUGGCAGCAGCUCUUAAGACUCUAAAUAUGUAAGCG
AACGGAAAUUCAUAACCUACAAAAGGCCGAGCGUGGUGGCUUGGACGAGAGAGACAAGGUGGGCU
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GGAUCCUAAAAGAGAUCGAAAAGGCCACAGAAAAGUACUUCUUUUACAGCAACUACUCAACUUCUU
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CAGGUGAACAUUGUGAAAAAGACUGAGGUGCAGACUGGCGGGUUUAGCAAAGAGAGUAUCCUGCC
AAAGCGGAUAGCGAUAAAGUUAUUGCUCGGAAAAAGGACUGGGAUCCAAAGAAGUACGGCGGCUU
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AAGUACAGCCUGUUUGAGCUGGAGAACGGAAGGAAGAGGAUGCUGGCUAGCGCCGGCGAGCUCCAA
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AAGCUGAAGGGAUACCCUGAAGACAAUGAGCAGAAACAGCUGUUCGUCGAGCAGCAUAAACACUACC
UCGACGAAAUAUUGAGCAAAUUAUGAGUUCUCAAAGCGGGUAAUCCUCGCAGAUAGCAAUUCUG
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GCUGUAUGAAACCCGGAUUGACCUGAGUCAGCUGGGUGGGGACAGCAGGGCUGACCCCAAGAAGA
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CAGCCCCUCCUCCCCUUCUGCACCCGUACCCCGUGGUCUUUGAAUAAAGUCUGAGUGGGCGGCA
AA
AA

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- 2) Ruffolo, J. A., Nayfach, S., Gallagher, J., Bhatnagar, A., Beazer, J., Hussain, R., Russ, J., Yip, J., Hill, E., Pacesa, M., Meeske, A. J., Cameron, P., & Madani, A. (2024). Design of highly functional genome editors by modeling the universe of CRISPR-Cas sequences. Cold Spring Harbor Laboratory. <https://doi.org/10.1101/2024.04.22.590591>
- 3) <https://github.com/Profluent-AI/OpenCRISPR/blob/main/OpenCRISPR-1/OpenCRISPR-1.fasta>

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