In our pSin wPGK-Cre plasmid, the first 7 amino acids of Cre are missing and are replaced with 12 amino acids (which includes an SV40 nuclear localization sequence).

The sequence of pSin wPGK-Cre is:

  (start) ATGACACCTAAGAAGAAGAGAAAGGTATGCAGGTCACAC…

              Met Thr Pro Lys Lys Lys Arg Lys Val Cys Arg Ser His…

The sequence of Cre from the NCBI database is:

(start) ATGGCCAATTTACTGACCGTACAC…

          Met Ala Asn Leu Leu Thr Val His…

After the histidine the sequence is the same.