**Figure S1: Nucleotide sequences of mRNAs used for vaccinations**

The two sequences of the RABV-G, A and B, contain the identical open reading frame, encoding the RABV-G protein of the Pasteur strain (GenBank accession number: AAA47218.1). The two RNA constructs differ in the non-coding 3’ and 5’ untranslated regions (UTRs).

**RABV-G mRNA A**

GGGAGAAAGCUUACCAUGGUGCCCCAGGCCCUGCUCUUCGUCCCGCUGCUGGUGUUCCCCCUCUGCUUCGGCAAGUUCCCCAUCUACACCAUCCCCGACAAGCUGGGGCCGUGGAGCCCCAUCGACAUCCACCACCUGUCCUGCCCCAACAACCUCGUGGUCGAGGACGAGGGCUGCACCAACCUGAGCGGGUUCUCCUACAUGGAGCUGAAGGUGGGCUACAUCAGCGCCAUCAAGAUGAACGGGUUCACGUGCACCGGCGUGGUCACCGAGGCGGAGACCUACACGAACUUCGUGGGCUACGUGACCACCACCUUCAAGCGGAAGCACUUCCGCCCCACGCCGGACGCCUGCCGGGCCGCCUACAACUGGAAGAUGGCCGGGGACCCCCGCUACGAGGAGUCCCUCCACAACCCCUACCCCGACUACCACUGGCUGCGGACCGUCAAGACCACCAAGGAGAGCCUGGUGAUCAUCUCCCCGAGCGUGGCGGACCUCGACCCCUACGACCGCUCCCUGCACAGCCGGGUCUUCCCCGGCGGGAACUGCUCCGGCGUGGCCGUGAGCUCCACGUACUGCAGCACCAACCACGACUACACCAUCUGGAUGCCCGAGAACCCGCGCCUGGGGAUGUCCUGCGACAUCUUCACCAACAGCCGGGGCAAGCGCGCCUCCAAGGGCAGCGAGACGUGCGGGUUCGUCGACGAGCGGGGCCUCUACAAGUCCCUGAAGGGGGCCUGCAAGCUGAAGCUCUGCGGCGUGCUGGGCCUGCGCCUCAUGGACGGGACCUGGGUGGCGAUGCAGACCAGCAACGAGACCAAGUGGUGCCCCCCCGGCCAGCUGGUCAACCUGCACGACUUCCGGAGCGACGAGAUCGAGCACCUCGUGGUGGAGGAGCUGGUCAAGAAGCGCGAGGAGUGCCUGGACGCCCUCGAGUCCAUCAUGACGACCAAGAGCGUGUCCUUCCGGCGCCUGAGCCACCUGCGGAAGCUCGUGCCCGGGUUCGGCAAGGCCUACACCAUCUUCAACAAGACCCUGAUGGAGGCCGACGCCCACUACAAGUCCGUCCGCACGUGGAACGAGAUCAUCCCGAGCAAGGGGUGCCUGCGGGUGGGCGGCCGCUGCCACCCCCACGUCAACGGGGUGUUCUUCAACGGCAUCAUCCUCGGGCCCGACGGCAACGUGCUGAUCCCCGAGAUGCAGUCCAGCCUGCUCCAGCAGCACAUGGAGCUGCUGGUCUCCAGCGUGAUCCCGCUCAUGCACCCCCUGGCGGACCCCUCCACCGUGUUCAAGAACGGGGACGAGGCCGAGGACUUCGUCGAGGUGCACCUGCCCGACGUGCACGAGCGGAUCAGCGGCGUCGACCUCGGCCUGCCGAACUGGGGGAAGUACGUGCUGCUCUCCGCCGGCGCCCUGACCGCCCUGAUGCUGAUCAUCUUCCUCAUGACCUGCUGGCGCCGGGUGAACCGGAGCGAGCCCACGCAGCACAACCUGCGCGGGACCGGCCGGGAGGUCUCCGUGACCCCGCAGAGCGGGAAGAUCAUCUCCAGCUGGGAGUCCUACAAGAGCGGCGGCGAGACCGGGCUGUGAGGACUAGUUAUAAGACUGACUAGCCCGAUGGGCCUCCCAACGGGCCCUCCUCCCCUCCUUGCACCGAGAUUAAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAAGGCUCUUUUCAGAGCCACCAGAAUU

**RABV-G mRNA B**

GGGGCGCUGCCUACGGAGGUGGCAGCCAUCUCCUUCUCGGCAUCAAGCUUACCAUGGUGCCCCAGGCCCUGCUCUUCGUCCCGCUGCUGGUGUUCCCCCUCUGCUUCGGCAAGUUCCCCAUCUACACCAUCCCCGACAAGCUGGGGCCGUGGAGCCCCAUCGACAUCCACCACCUGUCCUGCCCCAACAACCUCGUGGUCGAGGACGAGGGCUGCACCAACCUGAGCGGGUUCUCCUACAUGGAGCUGAAGGUGGGCUACAUCAGCGCCAUCAAGAUGAACGGGUUCACGUGCACCGGCGUGGUCACCGAGGCGGAGACCUACACGAACUUCGUGGGCUACGUGACCACCACCUUCAAGCGGAAGCACUUCCGCCCCACGCCGGACGCCUGCCGGGCCGCCUACAACUGGAAGAUGGCCGGGGACCCCCGCUACGAGGAGUCCCUCCACAACCCCUACCCCGACUACCACUGGCUGCGGACCGUCAAGACCACCAAGGAGAGCCUGGUGAUCAUCUCCCCGAGCGUGGCGGACCUCGACCCCUACGACCGCUCCCUGCACAGCCGGGUCUUCCCCGGCGGGAACUGCUCCGGCGUGGCCGUGAGCUCCACGUACUGCAGCACCAACCACGACUACACCAUCUGGAUGCCCGAGAACCCGCGCCUGGGGAUGUCCUGCGACAUCUUCACCAACAGCCGGGGCAAGCGCGCCUCCAAGGGCAGCGAGACGUGCGGGUUCGUCGACGAGCGGGGCCUCUACAAGUCCCUGAAGGGGGCCUGCAAGCUGAAGCUCUGCGGCGUGCUGGGCCUGCGCCUCAUGGACGGGACCUGGGUGGCGAUGCAGACCAGCAACGAGACCAAGUGGUGCCCCCCCGGCCAGCUGGUCAACCUGCACGACUUCCGGAGCGACGAGAUCGAGCACCUCGUGGUGGAGGAGCUGGUCAAGAAGCGCGAGGAGUGCCUGGACGCCCUCGAGUCCAUCAUGACGACCAAGAGCGUGUCCUUCCGGCGCCUGAGCCACCUGCGGAAGCUCGUGCCCGGGUUCGGCAAGGCCUACACCAUCUUCAACAAGACCCUGAUGGAGGCCGACGCCCACUACAAGUCCGUCCGCACGUGGAACGAGAUCAUCCCGAGCAAGGGGUGCCUGCGGGUGGGCGGCCGCUGCCACCCCCACGUCAACGGGGUGUUCUUCAACGGCAUCAUCCUCGGGCCCGACGGCAACGUGCUGAUCCCCGAGAUGCAGUCCAGCCUGCUCCAGCAGCACAUGGAGCUGCUGGUCUCCAGCGUGAUCCCGCUCAUGCACCCCCUGGCGGACCCCUCCACCGUGUUCAAGAACGGGGACGAGGCCGAGGACUUCGUCGAGGUGCACCUGCCCGACGUGCACGAGCGGAUCAGCGGCGUCGACCUCGGCCUGCCGAACUGGGGGAAGUACGUGCUGCUCUCCGCCGGCGCCCUGACCGCCCUGAUGCUGAUCAUCUUCCUCAUGACCUGCUGGCGCCGGGUGAACCGGAGCGAGCCCACGCAGCACAACCUGCGCGGGACCGGCCGGGAGGUCUCCGUGACCCCGCAGAGCGGGAAGAUCAUCUCCAGCUGGGAGUCCUACAAGAGCGGCGGCGAGACCGGGCUGUGAGGACUAGUGCAUCACAUUUAAAAGCAUCUCAGCCUACCAUGAGAAUAAGAGAAAGAAAAUGAAGAUCAAUAGCUUAUUCAUCUCUUUUUCUUUUUCGUUGGUGUAAAGCCAACACCCUGUCUAAAAAACAUAAAUUUCUUUAAUCAUUUUGCCUCUUUUCUCUGUGCUUCAAUUAAUAAAAAAUGGAAAGAACCUAGAUCUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAAGGCUCUUUUCAGAGCCACCAGAAUU