

Supporting information

Toolkit for Quickly Generating and Characterizing Molecular Probes Specific for SARS-CoV-2

Nucleocapsid as a Primer for Future Coronavirus Pandemic Preparedness

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Nucleotide sequence of the pecan367 open reading frame encoding *pe/B* signal sequence, anti-SARS-CoV-2 nucleocapsid nanobody WuN3 (yellow highlight), D1D2 M13 linker, mNeonGreen and G₄SH₆.

Nde I, *Not* I, *Spe* I and *Hind* III restriction sites are underlined

catatgaaatacctattgcctacggcagccgctggattgttattactcgcggcccagccggccatggcgaaggtcaaactgcagcagtcagggggagg
cttggtgcagactggggggtctctgagactctctgtgcacctctggacgcaccttcagtgatcaatgccatgggctggtagccaggctccaggaaa
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ttaccgatgtgatgggcatggacagctgtacaaggggtggcgtgctcgcacatcaccatcactaataagctt

Nucleotide sequence of the pecan373 mScarlet-I G₄SH₆ region from *Spe* I to *Hind* III

actagtgtgagcaagggcgaggcagtgatcaaggagtcatgcggtcaaggtgcacatggagggtccatgaacggccacgagttcgatcgag
ggcgagggcgagggcccccctacgagggcaccagaccgccaagctgaaggtgaccaaggggtggccccctgccttctctgggacatcctgtccc
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gcatggacgagctgtacaaggggtggcgggtgctcgcacatcaccatcactaataagctt

Nucleotide sequence of the pecan287 Gluc H₆ region from *Not* I to *Hind* III

gcgccgcagtcgacaaaccaactgaaacaatgaagattcaacatttagctgtagctagcaactttgctacaacggatctcgatgctgaccgtgg
taaattgcccggaaaaaattaccacttgaggtagtcaaaagaatggaagccaatgctaggaaagctggctgactaggggatgtctgatgctgctg
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gtggacaaaataaaggggtgcgggtggtgatcaccatcaccatcactaataagctt

Nucleotide sequence of the pecan278 APEX2 (Cys minus) G₃H₆ region from *Not* I to *Hind* III

gcggccgcaggaaagtcttacccaactgtgagtctgattaccaggacgccgttgagaaggcgaagaagaagctcagaggcttcatcgctgagaag
agatccgctcctctaatgctccgtttggcattccactctgctggaacctttgacaaggcacgaagaccggtggacccttcggaacctcaagcacctt
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