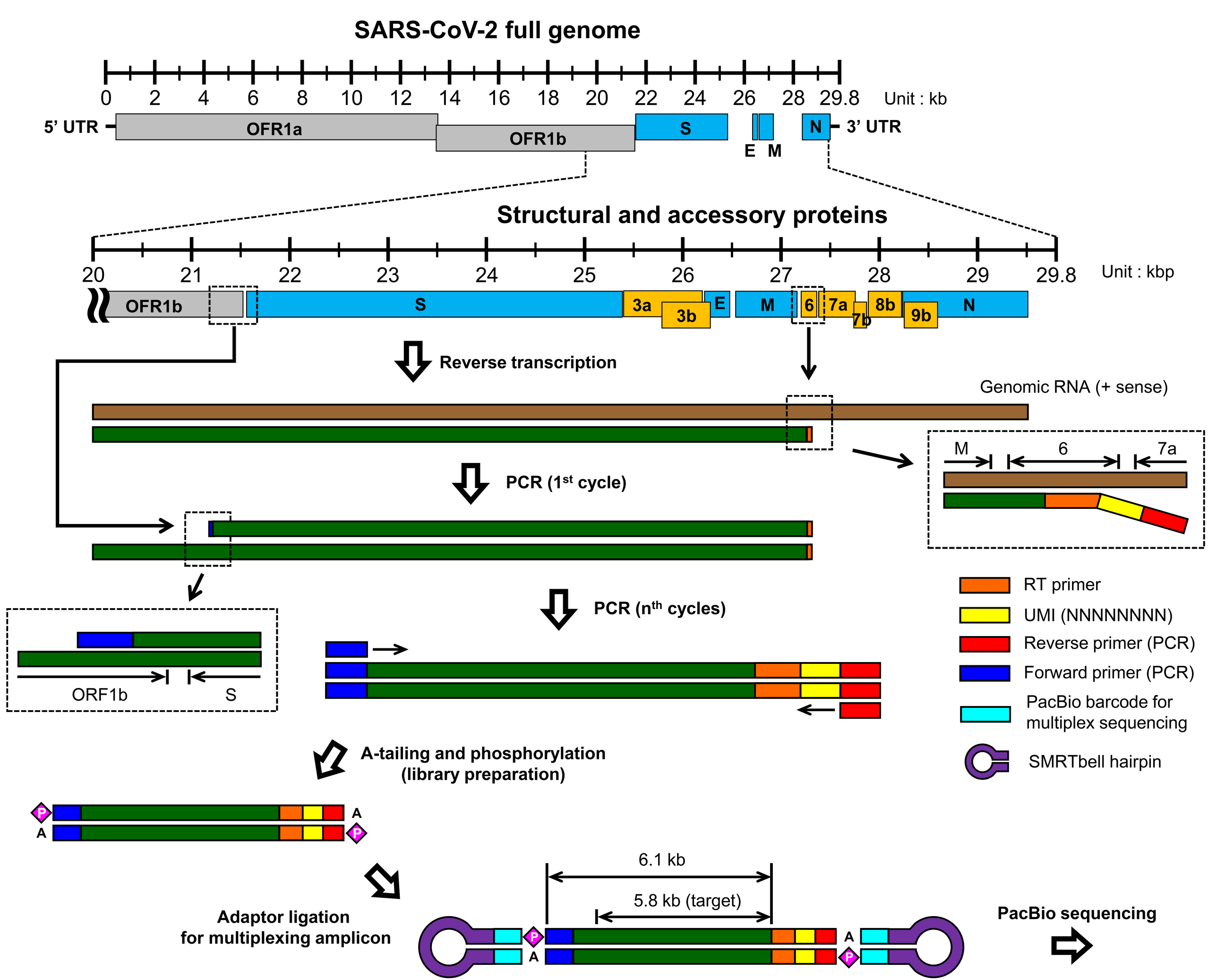
SARS-CoV-2 full genome
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 29.8
Unit : kb
5' UTR
OFR1a
OFR1b
S
E
M
N
3' UTR
Structural and accessory proteins
20 21 22 23 24 25 26 27 28 29 29.8
Unit : kbp
OFR1b
S
3a
3b
E
M
6
7a
7b
8b
9b
N
Reverse transcription
Genomic RNA (+ sense)
M
6
7a
PCR (1st cycle)
ORF1b
S
PCR (nth cycles)
RT primer
UMI (NNNNNNNN)
Reverse primer (PCR)
Forward primer (PCR)
PacBio barcode for multiplex sequencing
SMRTbell hairpin
A-tailing and phosphorylation (library preparation)
P
A
6.1 kb
5.8 kb (target)
Adaptor ligation for multiplexing amplicon
PacBio sequencing