QuantSeq-Flex Targeted RNA-Seq Library Prep Kit for Illumina platforms

200 min Library Generation Heat to 85 °C for 3 min, then cool to RT temperature. For targeted sequencing and FFPE samples skip this step. First Strand cDNA Synthesis Pre-mix 4.5 μl **FS2x** • and 0.5 μl **E1**• per reaction. Add 5 μl **FS2x / E1** mix per reaction. Incubate for 15 min at 37 °C (or up to 50 °C for targeted primers with a high Tm). Add 5 µl **RS1** , mix well. **RNA** Removal Incubate 10 min at 95 °C, then cool to 25 °C. Add 5 µl **RS2** , mix well. Pre-mix 13 μl SS1x • and 2 μl RSP • OR 2 μl Custom Targeted Primers per reaction, mix well. Add 15 µl **SS1x** / primer mix per reaction. Mix well. 2nd Strand Synthesis □ Incubate 1 min at 98 °C, slowly ramp down to anneal primers (25 °C - 50 °C). □ Incubate 30 min at 25 °C (or up to 50 °C for targeted primers with a high Tm). Pre-mix 4 μl SS2 • and 1 μl E2 • per reaction. O Add 5 μl SS2 / E2 mix per reaction. □ Incubate 15 min at 25 °C (or 50 °C for targeted primers with a high Tm). Add 20 µl **PB** per reaction, mix well, incubate 5 min. Place on magnet for 2 - 5 min, remove and discard supernatant. Purification Add 40 μl **EB**, mix well, incubate 2 min at RT. Add 72 μl **PS** (or 48 μl **PS** for low input, FFPE, or low quality RNA), mix well, incubate 5 min at RT. Place on magnet for 2 - 5 min, remove and discard supernatant. Wash the beads (PB) twice with 120 µl 80 % EtOH, 30 sec. Dry beads for 5 - 10 min. Add 20 µl **EB**, mix well, incubate 2 min at RT. Place on magnet for 2 - 5 min, transfer 17 µl of the supernatant into a fresh PCR plate. 70 min Library Amplification Pre-mix 7 µl **PCR** • and 1 µl **E3** • per reaction, mix well. Add 8 μl PCR / E3 premix to 17 μl of each purified library. Add 5 µl BC (from the 96-well plate) for each reaction, mix well. PCR □ PCR: 98 °C, 30 sec 98 °C, 10 sec 65 °C, 20 sec use qPCR to determine ATTENTION: Increase cycle number for low input RNA and 72 °C, 30 sec Juse greated samples with low target RNA content! 72 °C, 1 min; 10 °Ć, ∞ Add 30 μl **PB** (or 27 μl **PB** for low quality or FFPE RNA) per reaction, mix well, incubate 5 min. Place on magnet for 2 - 5 min, remove and discard supernatant. Add 30 μl **EB**, mix well, incubate 2 min at RT. Purification Add 30 μl PS, mix well, incubate 5 min at RT. Place on magnet for 2 - 5 min, remove and discard supernatant. □ Wash the beads twice with 120 µl 80 % EtOH, 30 sec. Air dry beads for 5 - 10 minutes. Add 20 μl EB, mix well, incubate 5 min at RT. Place on magnet for 2 - 5 min, transfer 15 - 17 μl of the supernatant into a fresh PCR plate. ATTENTION: Spin down solutions before opening tubes or plates!





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