

**Description**

The SMRTbell® Express Template Prep Kit contains sufficient reagents to prepare 16 reactions. The SMRTbell Express Template Prep Kit has an approximate 3 hour workflow from sheared gDNA to SMRTbell templates. The kit is designed for diffusion loading only. The kit has been initially validated for protocols to generate SMRTbell libraries with size selection >15 kb. Importantly, it has not been optimized for amplicon sequencing, templates for Iso-Seq analysis, and shorter libraries that are not size selected or average insert size of <15 kb.

Kit components include:

Subcomponent Name	Part Number	Number	Color	Quantity (µl)
10x DNA Damage Repair Buffer v2	101-358-000	1 tube	Purple	100 µl
Exo VII v2	101-358-100	1 tube	Yellow	16 µl
DNA Damage Repair Mix	101-358-200	1 tube	Red	35 µl
End Repair Mix v2	101-358-300	1 tube	Orange	35 µl
End Repair Additive	101-358-400	1 tube	Gold	16 µl
5X Ligation Buffer	101-358-500	1 tube	Blue	360 µl
Ligation Additive	101-358-600	1 tube	Light Blue	16 µl
Ligase v2	101-358-700	1 tube	Green	80 µl
Terminase	101-358-800	1 tube	Purple	16 µl
Overhang Adapter v3	101-358-900	1 tube	Light Green	80 µl
Sequencing Primer v4	101-359-000	1 tube	Light Blue	16 µl
1X Terminase Dilution Buffer	101-359-100	1 tube	Light Purple	150 µl
10X Primer Buffer v2	001-560-849	1 tube	Blue	1000 µl
1X Elution Buffer	100-159-800	3 tubes	White	1500 µl

**Part Number**

101-357-000

**Quantity**

16 reactions

**Intended Use**

For Research Use Only. Not for use in diagnostic procedures.

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**Storage and Handling Requirements**

Product should be stored at -20°C. Refer to Sample Preparation and Sequencing Guide for additional recommendations for reagent handling.

**Shelf Life**

Refer to expiration date on kit label.

**Support**

For additional product and technical information, such as Safety Data Sheets (SDS) or procedures, please visit our website at [www.pacificbiosciences.com](http://www.pacificbiosciences.com) and our customer portal at [www.pacbioportal.com](http://www.pacbioportal.com).

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