

Materials List for:

Highly Efficient Ligation of Small RNA Molecules for MicroRNA Quantitation by High-Throughput Sequencing

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Materials

Name	Company	Catalog Number	Comments
3' Linker (5' phosphorylated, 3' blocked)	Integrated DNA Technologies	custom	
5' Linker	Integrated DNA Technologies	custom	5' blocked, HPLC purified
T4RNL2 (1-249 K227Q)	New England Biolabs	M0351S	Specialized for ligation of pre-adenylated DNA adapters
10x Ligation buffer (without ATP)	New England Biolabs	Included with M0351S	
10x Ligation buffer (with ATP)	New England Biolabs	Included with M0204L	
RNaseOUT	Invitrogen	10777-019	
Polyethylene glycol (mol. Wt. 8,000)	New England Biolabs	Included with M0204L	
Nuclease-free water	Ambion	AM9937	We have found water collected from a distillation apparatus to be of equivalent quality.
T4RNL1	New England Biolabs	M0204L	
Superscript III RT kit	Invitrogen	18080-051	
Phusion PCR kit	New England Biolabs	M0530S	
Illumina RP1 primer	Integrated DNA Technologies	custom	Sequence information available from Illumina
Illumina RT primer	Integrated DNA Technologies	custom	Sequence information available from Illumina
Illumina index primer(s)	Integrated DNA Technologies	custom	Sequence information available from Illumina
40% Acrylamide	Fisher Scientific	BP14081	
Urea	Sigma Aldrich	U6504	
Ammonium persulfate	Sigma Aldrich	A3678	
Tetramethylethylenediamine (TEMED)	Sigma Aldrich	T9281	
2x Denaturing RNA loading buffer	New England Biolabs	Included with M0351S	
Razor blades	VWR	55411-050	
SpinX Centricon tubes	Costar	CLS8161	
Low retention microfuge tubes	Fisher Scientific	02-681-320	
Sybr Gold	Invitrogen	S-11494	
Adenylation kit	New England Biolabs	E2610L	