

Cost and Time comparison between qPRO-seq and PRO-seq protocols

Cost Comparison

Reagent	Amt. (PRO)	Amt. (qPRO)	Unit	Bulk Cost	Bulk Amt.	Cost (PRO)	Cost (qPRO)
Biotin-11-CTP	0.5	0.4	μl	\$373	25 μl	\$7.46	\$5.97
Biotin-11-UTP	0.5	0.4	μl	\$373	25 μl	\$7.46	\$5.97
Suprase-in	9.5	5.9	μl	\$448	500 μl	\$8.51	\$5.29
Trizol LS	1.7	0.55	ml	\$435	200 ml	\$3.70	\$1.20
Glycoblue	7	3	μl	\$92.25	300 μl	\$2.15	\$0.92
P-30 column	1	1	ea	\$507	100 ea	\$5.07	\$5.07
M280 beads	120	-	μl	\$1,900	10000 μl	\$22.80	-
T4 RNA Ligase	2	3	μl	\$285	500 μl	\$1.14	\$1.71
RppH	2	1	μl	\$93	40 μl	\$4.65	\$2.33
PNK	2.5	1	μl	\$228	250 μl	\$2.28	\$0.91
SS III RT	0.5	-	μl	\$372	50 μl	\$3.72	-
C1 beads	-	10	μl	\$1,900	10000 μl	-	\$1.90
Maxima H-	-	1	μl	\$209	50 μl	-	\$4.18

Method	Total Cost
PRO-seq	\$68.94
qPRO-seq	\$35.44

Hands-on Time Comparison

PRO-seq

Step	Time (h)
Run-On	0.5
RNA Extraction	1
Base Hydrolysis	0.5
Biotin Enrichment	3
3' Ligation	1.25
Biotin Enrichment	3
5' End Repair	2.5
5' Ligation	1.25
Biotin Enrichment	3
RT	1.25
Total	17.25

qPRO-seq

Step	Time (h)
Run-On	0.5
RNA Extraction	1
Base Hydrolysis	1
3' Ligation	1.25
Biotin Binding	0.5
5' End Repair	2
5' Ligation	1.25
RNA Extraction	1
RT	1.25
Total	9.75