

Reagent list for RNA-seq, PAT-seq

Item	Supplier	cost	quantity
Reagents for sample preparation			
Oligo-dT beads	NEB S1419S	\$244 (enough for ca. 300 libraries)	5 ml
RNA Fragmentation kit	NEB E6150S	\$45 (200 reactions)	0.23
RT primers (NOTE that I have included costs for 20 different primers, to allow extensive bar coding)	Various vendors	ca. \$10 each (>1000 reactions)	ca. 30 nmol
SMARTSCRIBE	Clontech 639537	\$155 (50 libraries)	100 μL^3
dNTPs	NEB N0447S	\$58 (320 RT reactions, or >1000 PCR reactions)	800 μL
RNase Inhibitor	NEB M0307L	\$308 (200 libraries)	100 μL
MagBio HiPrep PCR Cleanup Beads	MagBio ^{1,2}	\$60 (estimated cost for 5 ml, enough for ca. 50 libraries)	1.20
SWITCH7.5 (this has a locked nucleic acid linkage at its 3' end)	Exiqon	\$60 (>200 reactions)	--
PCR primers	Various vendors	ca. \$20 (>1000 reactions)	Ca. 30 nmol
Phire Hot Start II Taq DNA polymerase	Thermo F122S	\$145 (400 25 μL reactions)	"200 reactions"
Reagents for nucleic acid purification			
RLT	Qiagen 79216	\$147 (300 samples)	
RPE	Qiagen 1018013	\$36 (360 samples)	
RNA columns	Enzymax EZCR101	\$59 (100 samples)	100 columns

1 - MagBio web site: <http://www.magbiogenomics.com/sanger-sequencing-kits/pcr-cleanup-kit/HighPrep-PCR-5ml> ; the price is an estimate, as I only know the cost of 50 ml. 500 ml costs \$561.

2 – alternate source:

Agencourt AMPure Beads	Beckman Coulter	\$305 (100 libraries)	3.00
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3 – The JC workshop will have as many as 48 libraries, and the CSU up to 63. There is some uncertainty as some groups have not filed research plans. 100 μ L of enzyme will be cutting it close for the JC group, and it may be wise to order an additional tube of the next smaller size (\$71, I believe; cat #639536)