

## XpressPure Size Select (NGS)

MAGNETIC NANOPARTICLE BASED  
CLEANUP & SIZE SELECT BEADS



XpressPure NGS size selection and clean-up beads offer a straightforward and reliable selection of DNA libraries for different NGS workflows with high recovery. The system combines MagGenome's proprietary chemistries with reversible nucleic acid-binding properties of magnetic beads to selectively bind fragments of a specific range (150–800 bp) and eliminate sub-optimal fragment sizes. XpressPure size selection beads selectively bind DNA fragments of a defined length based on different sample to bead ratios, offering the customer to perform accurate single or double-sided size selection to narrow the library size range for a more consistent performance between libraries.

### Product Highlights

- Efficient clean up and single or double-sided size selection
- Predictable and consistent size selection
- Easy substitution into bead-based workflows
- Fast Magnetic response time and low viscosity
- Automation friendly

### Performance and Data

#### Comparison of XpressPure and AMPure XP in NGS library size selection

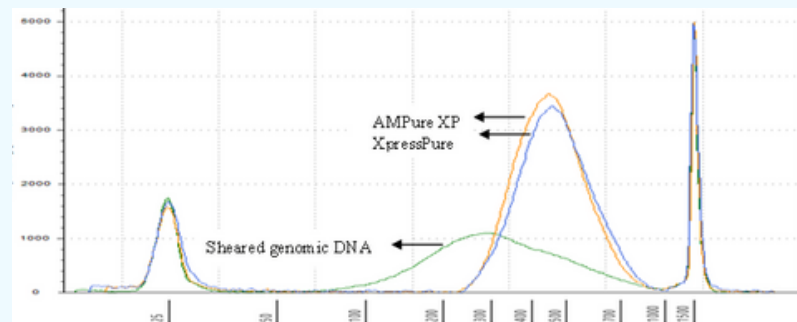


Figure 1: Tape station profile – Data showing size distribution of final libraries (400bp–500bp) using XpressPure Size Select and AMPure XP beads. Libraries were prepared from a 300bp fragment using NEB Next Ultra DNA Library kit.

### Handling Recommendations

- Store the beads at the recommended temperature (4°C)
- Store the elution buffer at room temperature
- Vortex the beads before use
- Allow enough time for beads to come to room temperature before use

### Uncoated XpressPure Size Select Beads bind magnet faster compared to coated AMPure XP Beads

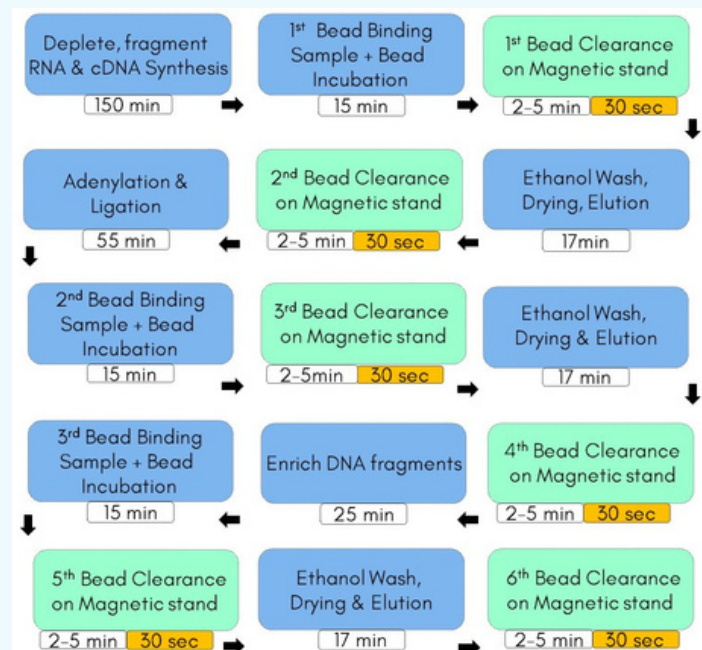


Figure 2: TrueSeq Stranded Total RNA library preparation workflow showing bead clearance time for XpressPure beads and AMPure XP beads.

Table 1: Summary of total time saved during library preparation using XpressPure Size Select beads

Bead	NEB Next DNA Library Prep Kit		TruSeq Stranded Total RNA Library Prep Kit		TruSeq Nano DNA Library Prep Kit	
	Total protocol time (min)	Bead clearance (min)	Total protocol time (min)	Bead clearance (min)	Total protocol time (min)	Bead clearance (min)
Ampure XP	169	25	356	30	255	32
XpressPure NGS bead	146.5	2.5	329	3	227	4
Hands on time saved	14%		8%		11%	

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### CONTACT

Phone: 1-844-624-626  
Email: info@maggenome.com



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