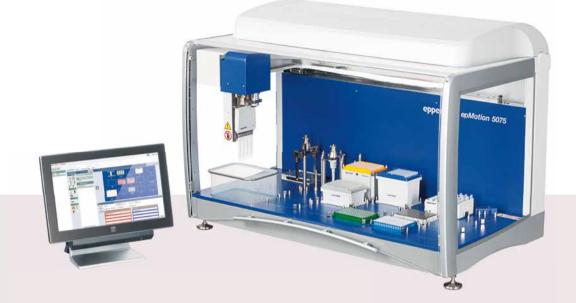
### eppendorf



# NGS Made Easy

Optimize your NGS library preparation with the ep*Motion<sup>®</sup>* Automated liquid handling system

## NGS Library Preparation Made Easy and Reliable



Next-generation sequencing sample preparation is a labor-intensive process, which requires experience, precision and accuracy to generate high-quality NGS libraries. The Eppendorf ep*Motion®* can automate this pipetting-intensive protocol into a ready-to-run procedure with minimal user-interventions and setup time even for runs with low sample numbers. To minimize programming time and get you up and running quickly, Eppendorf provides pre-optimized and manufacturer-qualified NGS reagent kit methods that will result in reproducible preparation of high-quality NGS libraries. The sequencing results are comparable or better to those from manual preparation. Trust in the Eppendorf ep*Motion* to automate your NGS library preparation and eliminate the risk of human pipetting errors, provide reproducible results and increase overall productivity.





### ep*Motion*<sup>®</sup> 5075t NGS Solution Product Characteristic Overview

#### Key highlights of epMotion 5075 NGS solution

- > Automating NGS library preparation eliminates the risk of human pipetting errors, provides reproducible results and increases productivity
- > The Eppendorf industry-proven, large repertoire of qualified NGS methods provides the generation of quality libraries
- > Very high pipetting accuracy (0.31% at 1  $\mu$ L) and precision (1.97 % at 1  $\mu$ L) combined with a minimum volume of 200 nL for accurate results and reagent savings
- > CleanCap option provides UV decontamination and HEPA air filter to protect samples from contamination
- > Intuitive software interface allows for ease-of-use and rapid method design while providing the needed flexibility to optimize even the most complex NGS workflows
- > 3D run simulation helps you optimize the speed and efficiency of new protocols
- > Capability for stacking plates and tip boxes maximizes available deck space and increases run times without user intervention
- > The integrated, high-performance Eppendorf ThermoMixer<sup>®</sup> and thermal elements allow for efficient mixing and reliable temperature control

#### Specific benefits of the epMotion 5075 NGS solution

- > The epMotion 5075 NGS solution combines automated liquid handling and unique software features with the accessories and high-quality consumables you need for reliable NGS library preparation and maximum NGS kit flexibility
- > Automatic Tool Selection automatically decides which tools (single or 8-channel) to use for fastest run time – ideal when sample numbers change frequently or are not a multiple-of-8
- > Improved results due to unique options that help remove remaining liquid after washing steps more effectively to prevent carryover that could be detrimental to library prep
- > Email notification option keeps you informed about the status of your library prep run



## Great Flexibility for Your NGS Preparation Needs

#### Pre-optimized and qualified NGS library prep methods for use with epMotion automated liquid handling system

"Every successful sequencing run requires an equally successful preparation of DNA or RNA libraries. If one step goes wrong or is forgotten, the entire run is at risk." (*Illumina*<sup>®</sup> *Inc.*)

The Eppendorf vast list of ep*Motion* automated NGS sample prep methods has been qualified by kit manufacturers and customers to deliver sequencing results that are comparable or better to those from manual preparation. Combining a highly accurate pipetting system with unique operating features ensures the quality of the data generated by the methods meets or exceeds the stringent kit manufacturers' qualification guidelines. This gives you peace of mind that the ep*Motion* will reproducibly deliver high quality NGS libraries.

NGS library prep kits on epMotion			
Application	Kit Name	Qualification	
Whole-Genome Sequencing	Illumina® TruSeq® Nano DNA	Illumina Qualified	
	Illumina TruSeq DNA PCR-free	Illumina Qualified	
	Illumina Nextera® XT DNA	Illumina Qualified	
	Illumina Nextera DNA Flex	Illumina Qualified	
	KAPA® BioSystems® KAPA HyperPrep DNA	KAPA Qualified	
	KAPA BioSystems KAPA HyperPlus	KAPA Qualified	
	KAPA BioSystems KAPA HTP	Customer Qualified	
	KAPA BioSystems KAPA LTP	Customer Qualified	
	New England Biolabs <sup>®</sup> NEBNext <sup>®</sup> Ultra DNA	Customer Qualified	
	New England Biolabs NEBNext Ultra II DNA	Customer Qualified	
Targeted DNA Resequencing	Illumina TruSeq Rapid Exome	Illumina Qualified	
	Illumina TruSight <sup>®</sup> Tumor 15	Illumina Qualified	
	Illumina TruSeq Custom Amplicon Low Input	Illumina Qualified	
	Illumina Nextera Rapid Capture Custom – Enrichment/Trusight Cancer	Illumina Qualified	
	Illumina TruSight One Sequencing Panel	Customer Qualified	
	Illumina ForenSeq <sup>™</sup> DNA Signature	Customer Qualified	
	Illumina TruSight HLA Sequencing Panel v2	Illumina Qualified	
	Illumina 16S Metagenomics	Customer Qualified	
	Agilent <sup>®</sup> Technologies <sup>®</sup> SureSelect <sup>®</sup> XT Target Enrichment	Customer Qualified	
	Agilent Technologies HaloPlex® Target Enrichment	Customer Qualified	
	Qiagen <sup>®</sup> GeneRead <sup>™</sup> Panel	Customer Qualified	
	Qiagen QIAseq FX DNA	Customer Qualified	
	Thermo Fisher Scientific <sup>®</sup> Ion AmpliSeq NGS Panels	Customer Qualified	
Total RNA Sequencing	Illumina TruSeq Stranded Total RNA	Illumina Qualified	
	KAPA BioSystems KAPA HyperPrep RNA	Customer Qualified	
	KAPA BioSystems KAPA HyperPrep RNA with RiboErase	Customer Qualified	
mRNA Sequencing	Illumina TruSeq Stranded mRNA	Illumina Qualified	
	KAPA BioSystems KAPA HyperPrep mRNA	Customer Qualified	
Targeted RNA Sequencing	Illumina TruSeq RNA Access	Illumina Qualified	
	Illumina TruSight RNA Pan-cancer Panel	Illumina Qualified	
	Illumina TruSight RNA Fusion Panel	Illumina Qualified	

> For an up-to-date list of qualified NGS methods and applications please visit www.eppendorf.com/ngs-methods.



#### Our beneficial Eppendorf products for your NGS workflow:



- > Consistent results due to excellent block homogeneity
- > flexlid<sup>®</sup> design minimizes evaporation and reduces edge effects to improve amplification specificity

### adsorption to the plastic surface

- > Maximize the recovery of nucleicacids during sample preparation/ isolation and after incubation and long-term sample storage
- and highly compatible with PCR cyclers and magnets
- > Available as 96- and 384-well LoBind PCR plate to increase yield of transcript species in NGS library preparation

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#### **Ordering information**

Description	International Order no.	North America Order no.
<b>epMotion</b> <sup>®</sup> <b>5075t NGS Solution</b> with MultiCon PC, Enhanced feature set 1, C2 thermo module, dispensing tools (TS 50, TM 50, TS 300, TM 300), waste bag holder plus NGS specific accessories (gripper with holder, thermoblock 96 OC, 2 x thermoadapter 96-well, Rack ILMN tubes, Reservoir Rack, Eppendorf Magnet Adapter FLX, Liquid Waste Tub 400 mL), plus NGS specific consumables (Eppendorf twin.tec <sup>®</sup> LoBind PCR Plate 96 semi-skirted, epT.I.P.S. <sup>®</sup> Motion pipette tips with filter PCR clean 50 μL & 300 μL each 960 tips, 30 mL reservoirs 50pcs, 50 waste bags)		
epMotion <sup>®</sup> 5075t NGS Solution, 230 V / 50 Hz, EU plug	5075 000.962	
epMotion <sup>®</sup> 5075tc NGS Solution with CleanCap, 230 V / 50 Hz, EU plug	5075 000.963	
epMotion <sup>®</sup> 5075t NGS Solution, 100–240 V, 50/60 Hz, US plug		5075000965
epMotion <sup>®</sup> 5075tc NGS Solution with CleanCap, 100–240 V, 50/60 Hz, US plug		5075000966
Recommended service options*		
ep <i>Motion</i> <sup>®</sup> Installation	0082 030.141	955989030
Installation Qualification & Operational Qualification (IQ/OQ)	0082 030.029	0082030029
ep <i>Motion</i> ® Training	0082 030.155	955989040
Application-Implementation	On request	

\*Service products are available in selected countries only and service offer may differ.

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