

FM version	Date	Cell type	N50 (Kb)	Yield (Gb)	Comments
FMv1	Feb 2018	WBC	30.0	8.0	1 st spin column HMW-DNA kit for NAIP-Oxford Nanopore Validation. Faster and simpler. N50 at 25-35kb was bigger than competitor technologies.
FMv2-v4	-	-	-	-	Matrix and chemistry alterations
FMv5	Jun 2019	<i>E Coli</i>	43	16.7	New FM patent improves size selection - not too short/not too long DNA. 50x coverage with 120kb+ reads. Large volumes of <i>E coli</i> input saturate column: drop N50 to the 30s kb
FMv5	Sep 2019	WBC	48.5	6.9	New FM patent improves size selection - not too short/not too long DNA Mammalian. N50 near doubled to 48kb-but DNA recovery (extraction yield) was relatively low for mammalian cell use.
FMv6	Nov 2019	WBC	60kb+ to 56	15.5 - 21.1	FM temperature protocol changes improved N50 & yield results in more usable DNA, tuneable N50/throughput equation for mammalian cells – no difference to v5 for bacteria.
FMv7	-	-	-	-	Undisclosed
FMv8	Oct 2020	Bacteria	45.8	25.6	Better cell re-suspension to improve sequencing yield further (>20%) at high N50 leads to high DNA recovery, larger volume of bacteria use possible. More DNA per run or more DNA for more runs.
FMv8	Nov 2020	Bacteria	36.7	28.5	Optimised Yield at high N50. Total raw data yield is 30Gb pre Q7 cut off

FM = Fire Monkey. WBC = white blood cells. Source; RevoluGen internal records.