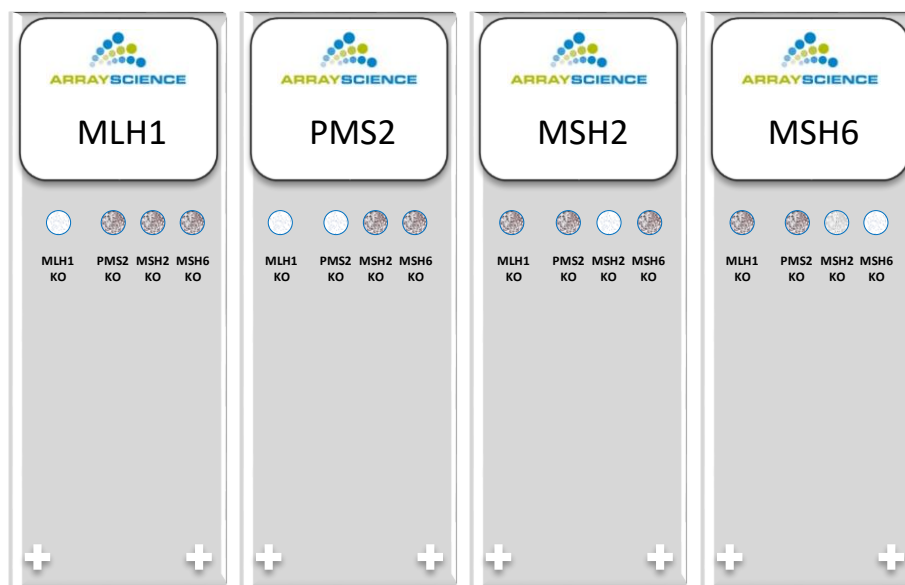


	Technical Data Sheet	
Mismatch Repair Control	Catalog #	MMR-4-1-3-2
	CMA/Lot #	1213
	Intended Use	<i>Research Use Only</i>

Description	Mismatch Repair Control
Array Science Catalog Number	MMR-4-1-3-2
Uses	Mismatch repair protein control block for immunohistochemistry. This control provides specific knockouts of each of the four proteins typically assessed when investigating mismatch repair enzyme deficiency: MLH1, PMS2, MSH2, and MSH6. These cell lines provide appropriate assay <i>positive and negative</i> controls, as opposed to typical normal tissue controls that show no loss of protein expression. The array slides may be helpful for initial assay optimization, validation, and daily QC for monitoring assay consistency.

Assay	MLH1 KO	PMS2 KO	MSH2 KO	MSH6 KO
MLH1	Loss	Intact	Intact	Intact
PMS2	Loss	Loss	Intact	Intact
MSH2	Intact	Intact	Loss	Intact
MSH6	Intact	Intact	Partial Loss*	Loss



* There is some preservation of the MSH6 protein in the MSH2 knockout cell line (Core 3), as may be seen in some tumors.



Technical Data Sheet

Mismatch Repair Control

Catalog #	MMR-4-1-3-2
CMA/Lot #	1213
Intended Use	Research Use Only

Description Mismatch Repair Control

Core Diameter	1mm
Core Depth	3mm
Estimated Yield	Up to 450 sections at 3-4um
Baking	Slides should be baked at 60-65°C for 1-2 hours prior to staining.
Cells Per Core	Approximately 2,000 cells are presented in each core on an H&E-stained histologic section.
Storage Conditions	4°C to 25°C
Stability	Use blocks within 24 months of the date of manufacture. Slides should be stained within 2 weeks of sectioning.
Indication	Research Use Only
Country of Origin	United States