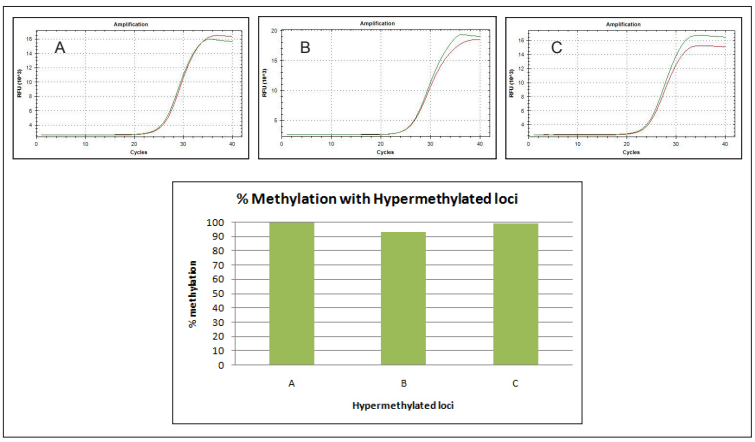
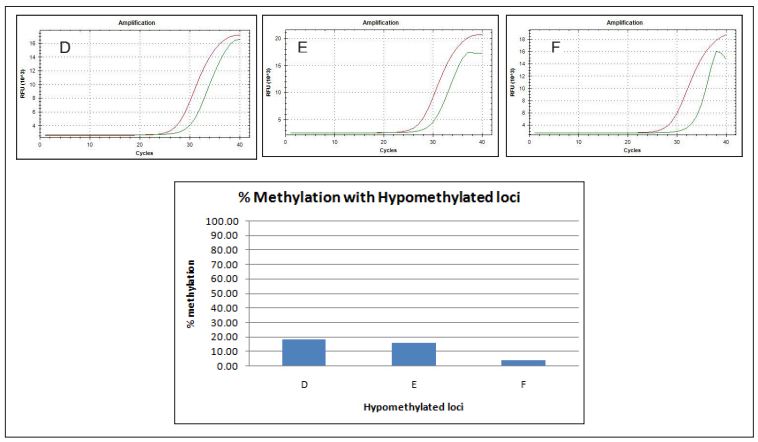
OneStep qMethyl™ Kit

Single Step, Bisulfite-free DNA Methylation Analysis

- ✓ Ideal for rapid screening of single- and multi-locus DNA methylation
- ✓ Includes reagents and controls for quantitative detection and reliable performance





After processing with the *OneStep* qMethyl™ Kit, amplification plots demonstrate that highly methylated DNAs exhibit slight differences (A-C) in the Ct values for test (green line) and reference samples (red line) while non-methylated DNA samples exhibit larger differences (D-F). These data are used as the basis for methylation determination at a particular locus (loci) of the researcher's choosing as detailed in the *OneStep* qMethyl™ Kit instruction manual.

Ordering Information			
Cat. No.	*Product*	*Details*	*Size*
D5310	*OneStep* qMethyl™ Kit	Includes SYTO 9® dye for real-time PCR	1 x 96 wells
D5311	*OneStep* qMethyl™-Lite	Does not include SYTO® 9 dye, researcher may substitute with dye of choice.	1 x 96 wells

Use of SYTO® 9 is provided under an agreement between Life Technologies Corporation (Molecular Probes Labeling and Detection Technologies) and Zymo Research Corporation.

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OneStep qMethyl™ Arrays

Real-time, Gene Specific Methylation Detection

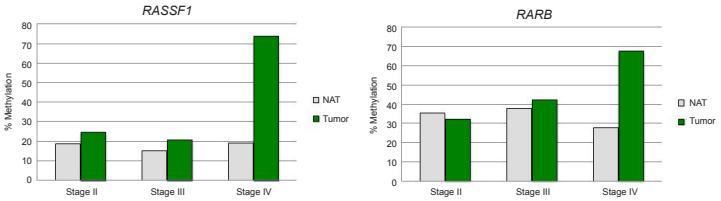
- ✓ **Premade 96-well assays for rapid high-throughput screening of methylation status.**
- ✓ **Straightforward bisulfite-free procedure – Just add your DNA and go! No primer design, no overnight digestions, no reaction cleanup.**

Description

The *OneStep* qMethyl™ Arrays are pre-designed assays that combine methylation sensitive restriction enzyme digestion and real-time quantitative PCR into one step. The *OneStep* qMethyl™ Arrays come in a real-time PCR plate that contains the necessary reagents and primers already aliquoted into the wells. It's as easy as adding DNA into the wells and then performing real-time PCR. Single gene arrays are available for the human tumor suppressor genes: *RASSF1*, *RARB*, *CDKN2A(p16)*, *MGMT*, and *CCND2*.

Specifications

Format: 96-well plates compatible with Roche® LightCycler 480, Bio-Rad CFX96™, and Applied Biosystems™ 7500/7900 real-time thermocyclers
Detection Dye: SYTO 9®
DNA Input: 20 ng total in 5 µl
Processing Time: ~4 hours



***OneStep* qMethyl™ Array analysis of methylation in *RASSF1* and *RARB* promoter regions at various stages of breast cancer.** DNA was extracted (ZR Genomic DNA™-Tissue MiniPrep) from breast cancer tissue collected at various stages of cancer progression. Methylation percentages were calculated according to the *OneStep* qMethyl™ protocol. Green bars indicate tumor samples and grey bars indicate normal adjacent tumor (NAT) samples.

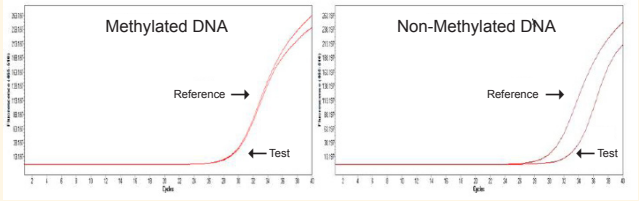
Product	*Cat. No.*	*Kit Size*
OneStep qMethyl™ Array – *RASSF1*	D5312-1-A	1 x 96 well
	D5312-1-B	
	D5312-1-C	
OneStep qMethyl™ Array – *RARB*	D5312-2-A	1 x 96 well
	D5312-2-B	
	D5312-2-C	
OneStep qMethyl™Array – *CDKN2A*	D5312-3-A	1 x 96 well
	D5312-3-B	
	D5312-3-C	
OneStep qMethyl™ Array – *MGMT*	D5312-4-A	1 x 96 well
	D5312-4-B	
	D5312-4-C	
OneStep qMethyl™ Array – *CCND2*	D5312-5-A	1 x 96 well
	D5312-5-B	
	D5312-5-C	
OneStep qMethyl™ *Array Custom* *For a custom designed plate of these five genes, please contact services@zymoresearch.com*	*Inquire*	1 x 96 well

D5312-X-**A**, D5312-X-**B**, and D5312-X-**C** is compatible with Roche® LightCycler 480 Plate Format, Bio-Rad CFX96™ Plate Format, and Applied Biosystems™ 7500 or 7900 Plate Format respectively.

To design your own *OneStep* qMethyl™ Array for a DNA sequence (region) of your choosing, please contact services@zymoresearch.com

OneStep qMethyl™ Array Procedure

Add DNA



Real-time Methylation Detection

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