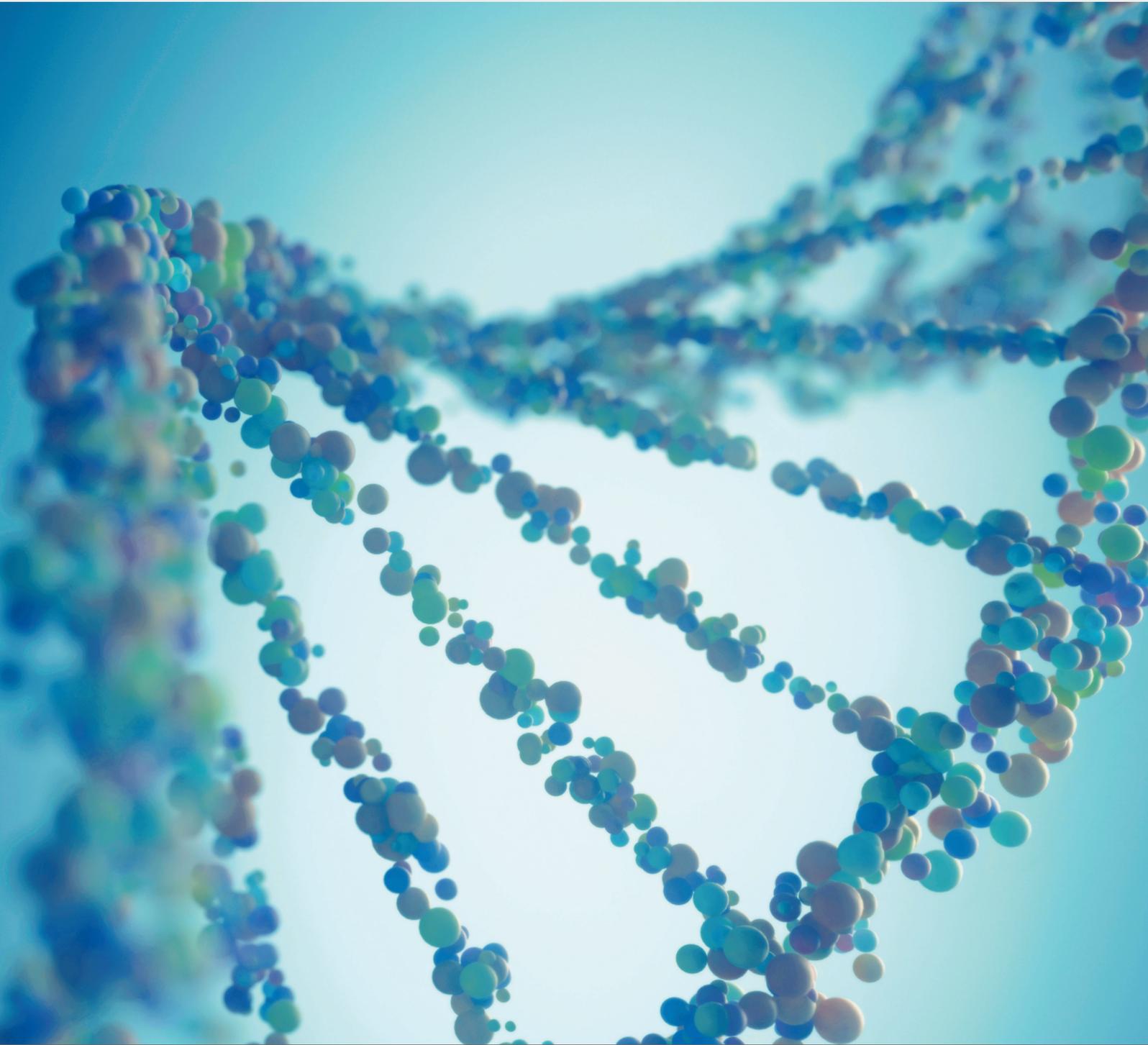


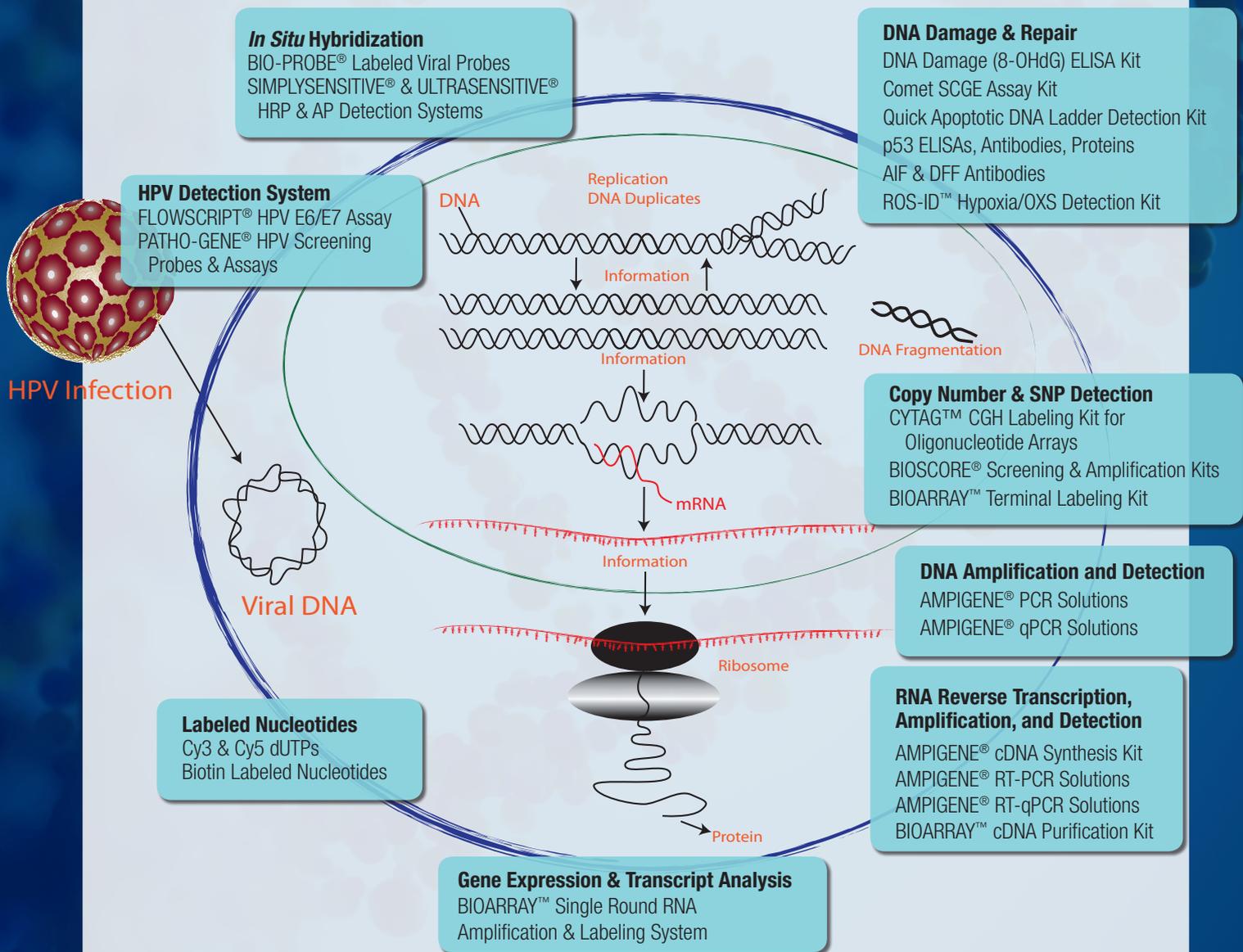


Genomics & Molecular Biology



ARM YOUR RESEARCH WITH INNOVATIVE MOLECULAR TOOLS

Enzo Life Sciences is a recognized pioneer and innovator of life sciences tools, backed by patented DNA and RNA labeling chemistries for genomics research and development. Our novel genomics products have paved the path for life science research and molecular medicine. Understanding the mechanisms behind replication, transcription, translation, and cell function on the molecular level enables a greater comprehension of physiological and pathological processes.



ENHANCING THE SPEED, YIELD & SPECIFICITY OF YOUR PCR

Sensitive Solutions for DNA Amplification

AMPIGENE® HS Taq Mix (10014-622 / 10014-624 / 10014-626)

Increased sensitivity standard PCR mix for a broader range of samples, with enhanced speed, yield, and specificity

- Advanced hot-start DNA polymerase
- Optimized buffer system for efficient amplification
- Resistant to PCR inhibitors and suitable for unprocessed samples

RELATED PRODUCTS

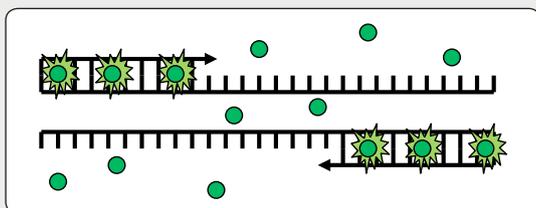
Product Name	Cat. No.
AMPIGENE® Taq DNA Polymerase	10014-680
AMPIGENE® HS Taq DNA Polymerase	10014-682
AMPIGENE® Taq Mix	10014-616 10014-618 10014-620
AMPIGENE® dNTP Mix	10014-628

Optimized Formulations for Quantitative DNA Amplification

AMPIGENE® qPCR Green Mix (10014-630 / 10014-632, 10014-634 / 10014-506)

Optimized for dye-based qPCR applications

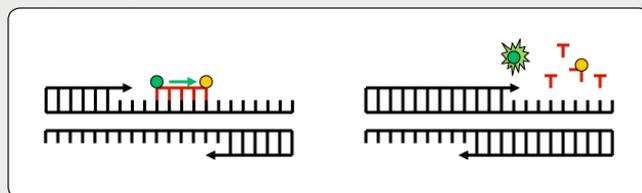
- Optimized buffer system for efficient amplification
- Enhancers and stabilizers improve reaction sensitivity and specificity



AMPIGENE® qPCR Probe Mixes (10014-508 / 10014-510, 10014-652 / 10014-654, 10014-656 / 10014-658)

Optimized for probe-based qPCR applications

- Designed for used on a wide range of probe technologies
- Optimized buffer system for efficient amplification
- Enhancers and stabilizers improve reaction sensitivity and specificity



Efficient RT Solutions

- Effective 1-step or 2-step RT-PCR that contains advanced RNase inhibitor
- Thermostable and extremely active reverse transcriptase

Product Name	Cat. No.
AMPIGENE® cDNA Synthesis Kit	10014-590, 10014-592
BIOARRAY™ cDNA Purification Kit	89165-742
AMPIGENE® 1-Step RT-PCR Kit	10014-584, 10014-586 10014-588
AMPIGENE® qPCR 1-Step Green Kit	10014-660, 10014-662 / 10014-664, 10014-666
AMPIGENE® qPCR 1-Step Probe Kit	10014-668, 10014-670 / 10014-672, 10014-674 / 10014-676, 10014-678

Real-time PCR-Based DNA Methylation Detection

BIOPANEL® DNA Methylation Detection Kit for Human Pluripotent Stem Cells (10136-024 / 10136-026 / 10136-028 / 10136-030)

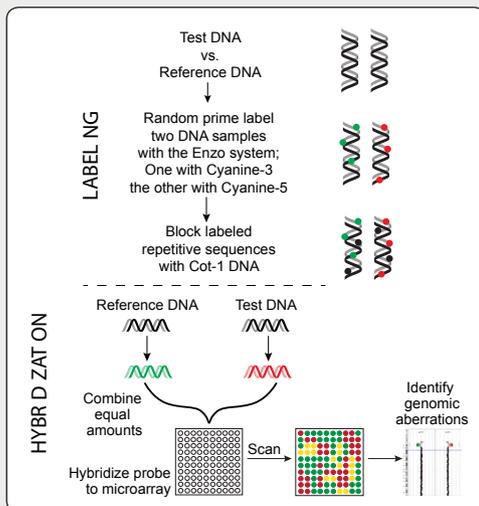
- Eliminate the need for bisulfite conversion
- Determine % methylation of specific region > 5 hours
- Identifies region-specific DNA methylation in RAB25, NANOG, PTPN6, MGMT, GBP3, and LYST gene promoters

SUPERIOR LABELING DELIVERS CLEAR & ACCURATE DATA ANALYSIS

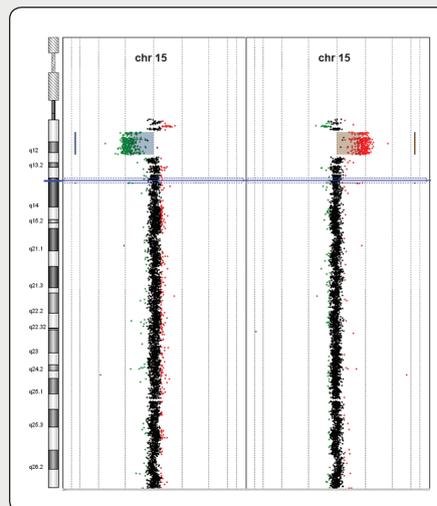
CYTAG™ CGH Labeling Kit for Oligonucleotide Arrays (10014-576 / 10014-578)

Array-based comparative genomic hybridization (aCGH) is a powerful platform for detecting DNA copy number gains and losses associated with chromosomal abnormalities in genetic diseases and cancers. The proprietary labeling technology and high-performance dyes incorporated into our aCGH kits enhance performance with commonly implemented microarray platforms (e.g., Agilent® arrays). Superior labeling technology results in more uniform dye incorporation so that comparisons between genomes is done at higher resolution and with improved signal-to-noise ratios.

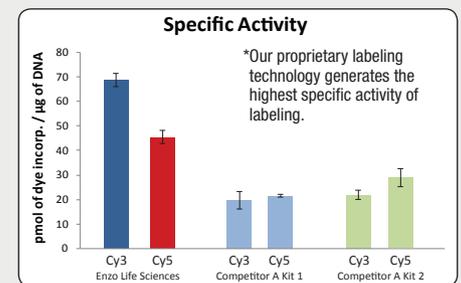
- High quality data provides fewer errors (false positive or false negative) and less time with manual analysis of the data
- Generates the highest quality DLR scores (0.09-0.12), exceeding industry standards
- Increased resolution for comprehensive, unbiased analysis of DNA copy number changes
- Performs total genomic DNA analysis without amplification or complexity reduction
- Proprietary labeling technology generates the highest specific activity of labeling



Enzo's CGH protocol requires no DNA digestion or restriction enzymes, saving time and preventing DNA loss during restriction enzyme cleanup.



Analysis of syndromic DNA using an oligonucleotide microarray (Agilent 4x180K) demonstrated the characteristic deletion in 15q11.2-q13 (chromosome 15) found in patients with Prader-Willi syndrome.



RELATED PRODUCTS

Product Name	Cat. No.
Klenow (3'-5' exo-)	10014-500
BIOSCORE® Screening & Amplification Kit	89165-748

BIOARRAY™ Terminal Labeling Kit (89165-766)

The gold standard end-labeling system for use with Affymetrix® DNA SNP (single nucleotide polymorphism)

Gene Expression & Transcript Analysis with BIOARRAY™ Amplification and Labeling Systems

BIOARRAY™ Single-round RNA Amplification (89165-744 / 89165-746)

Improved data quality and analysis results through greater biotin incorporation

- Maintains the value of legacy data and correlation of results by the continued use of Enzo kit, the gold standard for GeneChip® visualization
- Maximizes incorporation efficiency by utilizing two biotin-labeled nucleotides and a high quality T7 polymerase
- Convenient workflow with a flexible 4-16 hour transcription time and reagents supplied in a ready-to-use format

RELATED PRODUCTS

Product Name	Cat. No.
BIOARRAY™ Low Input RNA Amplification and Biotin Labeling System	10014-574
BIOARRAY HIGHYIELD® RNA Transcript Labeling Kit	89165-768 89165-770 89165-776
BIOARRAY™ Eukaryotic Hybridization Controls	89165-778 89165-780

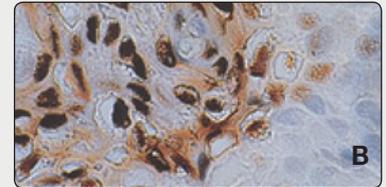
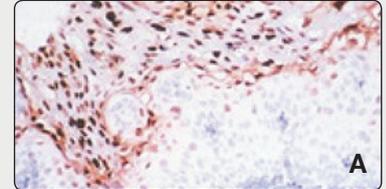
IN SITU HYBRIDIZATION

PATHO-GENE® HPV Detection Assays and Specific Probes

HPV Probes and typing assays for sensitive detection of pathogen-expressed genes from fresh or FFPE tissue sections.

- Specific, sensitive probes detect a broad spectrum of HPV types ranging from low to high risk
- Complete assays provide comprehensive solution for identifying HPV DNA

Product Name	Cat. No.	Product Name	Cat. No.
PATHO-GENE® HPV Type 6/11 Probe	89165-704 10014-572	PATHO-GENE® Hrp-AEC HPV <i>In Situ</i> Typing Assay	89165-698
PATHO-GENE® HPV Type 16/18 Probe	10014-364 89165-706	PATHO-GENE® Hrp-DAB HPV <i>In Situ</i> Typing Assay	89165-696
PATHO-GENE® HPV Type 31/33/51 Probe	89165-708 10014-366	PATHO-GENE® HPV <i>In Situ</i> Screening Assay	89165-700
PATHO-GENE® HPV Type 16/18/31/33/51 Probe	10014-566 10014-568	<i>In Situ</i> Hybridization Buffer for HPV Probes	10014-368
PATHO-GENE® HPV Type 6/11/16/18/31/33/51 Probe	89165-702 10014-570	<i>In Situ</i> Hybridization Wash Buffer	89165-720
PATHO-GENE® Alk Phos-NBT/BCIP HPV <i>In Situ</i> Typing Assay	89165-710	HPV 16 Control Slide	89165-682



CIN/condylomata biopsy specimen infected with HPV type 16 DNA. Assayed with PATHO-GENE® HPV 16/18 probe, developed with (A) HRP-AEC (10X) and (B) HRP-DAB (40X) and counterstained with hematoxylin.

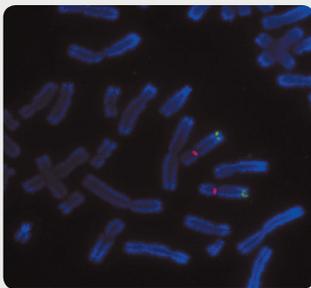
Flow Cytometry-Based Detection of mRNA

FLOWSCRIPT® HPV E6/E7 Assay (10014-526)

The assay employs a novel *in situ* hybridization technique utilizing a cocktail of probes specific to multiple sites within the E6 and E7 genes to ensure the detection of mRNA transcripts associated with the most prevalent high risk HPV genotypes.



Labeling System for FISH Probes



Nick Translation DNA Labeling System, coupled with fluorescent dye dUTPs, is a simple and efficient method to label DNA for FISH, and suitable for a wide range of molecular biology and cytogenetics applications.

- Eight distinct colors to choose from, spanning the visible light spectrum
- High signal intensity and good photostability

Product Name	Cat. No.
Nick Translation DNA Labeling System for FISH Probes	89165-860
Aqua 431 dUTP	89165-856, 10014-644
Green 496 dUTP	89165-842, 10014-636
Green 500 dUTP	89165-854
Gold 525 dUTP	89165-850, 10014-640
Gold 550 dUTP	89165-758
Orange 552 dUTP	89165-848, 10014-638
Red 580 dUTP	89165-852, 10014-642
Red 650 dUTP	89165-760

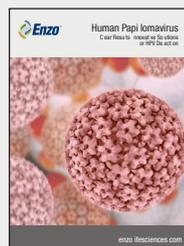
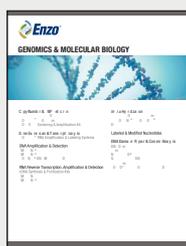
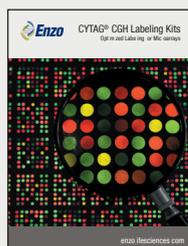
Make Your Own Probes with BIO-PROBE® Labeling Systems

BIO-PROBE® Nick Translation Systems
(89165-790, 89165-792, 89165-794 / 89165-796 / 89165-798)

BIO-PROBE® Random Primed Labeling Systems
(89165-800, 89165-802, 89165-804 / 89165-806 / 89165-808)

BIO-PROBE® INFECTIOUS AGENT PROBES			
Product Name	Cat. No.	Product Name	Cat. No.
BIO-PROBE® Adenovirus	89165-722	BIO-PROBE® Herpes Simplex	89165-726
BIO-PROBE® BK Virus	89165-734	BIO-PROBE® JC Virus	89165-732
BIO-PROBE® Cytomegalovirus	89165-724	BIO-PROBE® SV 40	89165-730

You may also be interested in:



Put our experience to work for you!

Our broad range of scientific expertise and industry-proven manufacturing capabilities enables us to provide a comprehensive set of solutions for genomics research.



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