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ProductInformation

FLUORESCENT LABELED PRIMER SETS

Sigma Product No.	Primer Set	Sequence
P 2973	-21 M13 Forward primer 17mer	5'GTAAAACGACGGCCAGT
P 3098	-28 M13 Reverse primer 19mer	5'AGGAAACAGCTATGACCAT
P 3348	-40 M13 Forward primer 18 mer	5'GTTTTCCCAGTCACGA CG
P 3223	-29 M13 Reverse primer 18mer	5'CAGGAAACAGCTATGACC
P 3473	Lambda gt10 Forward primer 21mer	5'AGCAAGTTCAGCCTGGTTAAG
P 6098	Lambda gt10 Reverse primer 24mer	5'CTTATGAGTATTTCTTCCAGGGTA
P 6723	T3 Phage promoter primer	5'ATTAACCCTCACTA AAGGGA
P 7348	T7 Phage promoter primer	5'TAATACGACTCACTATAGGG
P 7973	SP6 Promoter primer	5'ATTTAGGTGACACTATAG
P 8598	Poly T (AGC) primer	5'TTTTTTTTTTTTTTTTTTTTTTTAGC

STORAGE: Store at 2-8EC. Light sensitive

CONCENTRATION: 50 µl/vial; furnished at 1 picomole/µl supplied in Tris-EDTA buffer.

Sequencing with fluorescent-labeled primers provides more even signal intensities among bases than dye terminator chemistries and generally produces read lengths of 450-500 bp with an accuracy of 98% or greater. Each set contains the specified primer labeled individually on the 5' end with one of the following dyes: FAM, JOE, ROX and TAMRA. All primers have been tested for purity and absence of free dye using HPLC, PAGE analysis and OD scanning, and all primers have been functionally tested for use with automated fluorescent sequencing using ABI Prism? 373 and 377.

Sigma?s fluorescent primers can be used in:

- Single -stranded sequencing
- PCR Sequencing
- Double-stranded plasmid sequencing
- Shotgun sequencing (universal primers, M13)
- Deletion clone sequencing (universal primers)
- Solid phase sequencing
- Heterozygote detection
- Cosmid and lambda sequencing

USAGE: Follow the recommendations suggested by the supplier of the sequencing kit to be used. Typically, 1 µl (1 picomole/µl) of labeled primer is used per individual (FAM, JOE, ROX, TAMRA) reaction tube.

FLUORESCENCE WAVELENGTH MAXIMA:

	Excitation	**Emission**
FAM	495 nm	519 nm
JOE	500 nm	520 nm
ROX	576 nm	601 nm
TAMRA	546 nm	576 nm

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