



Product Specification

Sequencing Primers, Reverse Transcriptase Primers, cDNA Cloning Primers, T7 RNA Amplification Primers

M13 Sequencing Primers

Shipped at ambient temperature. Store at -20°C

For research use only. Not for use in diagnostic procedures for clinical purposes. Commercial licenses may be obtained directly from Gene Link.

Item	Catalog No.	Product Description	Primer Size	Qty	nmol/25 µg
☐	26-3000-01	M13/pUC (-20) 17mer	17	25 ug	4.79
☐	26-3000-02	M13/pUC Reverse (-24) 16mer	16	25 ug	5.12
☐	26-3000-03	M13/pUC (-40) 17mer	17	25 ug	4.85
☐	26-3000-04	M13/pUC Reverse (-48) 24mer	24	25 ug	3.37
☐	26-3000-51	M13 For Seq	16	25 ug	5.08
☐	26-3000-52	M13 Rev Seq	17	25 ug	4.83

Description

All M13/pUC primers are complementary to sequence in the M13 and pUC vectors (1). These primers will yield sequencing data for inserts cloned in these vectors. In addition to these vectors sequencing data will be obtained for all templates/vectors containing the lacZ sequences. The product is supplied as a lyophilized powder, after reconstitution store at -20 C. Oligo purity is greater than 98% as determined by denaturing polyacrylamide gel electrophoresis.

1. Messing J. (1983) Meth. Enzymol. 101:20.

Reconstitution

Stock Solution

Recommended reconstitution to prepare a stock solution is a concentration of 10 µM (10 pmol/ µl) in sterile TE pH 7.0.

- Spin the tube briefly to bring down the contents of the tube that may have lodged in the cap during shipment. Pellet may be very small and not visible.
- To prepare a 10 µM solution, multiply the total nmol by 100 and add that volume of sterile TE pH 7.0.
- Store at -20°C or below after reconstitution.

Example: Total nmol = 4.3

7.5 x 100= 430

Add 430 µl of sterile TE pH 7.0

Working Solution

Recommended working solution is a concentration of 2 μM (2 pmol/ μl) in sterile TE pH 7.0.

- Dilute 4 fold using sterile TE pH 7.0
- Store at -20°C or below after use.

Example: Working Solution Volume Desired = 100 μl

- Add 80 μl of sterile TE pH 7.0 to a tube
- Add 20 μl of 10 μM (10 pmol/ μl) stock primer solution. Vortex to mix.

Follow sequencing kit & reagent manufacturer specific working solution conditions if different from above.

Sequence Information

Catalog No.	Description	Sequence	Size
26-3000-01	M13/pUC (-20) 17mer	GTAAAACGACGGCCAGT	17
26-3000-02	M13/pUC Reverse (-24) 16mer	AACAGCTATGACCATG	16
26-3000-03	M13/pUC (-40) 17mer	GTTTTCCAGTCACGAC	17
26-3000-04	M13/pUC Reverse (-48) 24mer	AGCGGATAACAATTTTCACACAGGA	24
26-3000-51	M13 For Seq	GTAAAACGACGGCCAG	16
26-3000-52	M13 Rev Seq	CAGGAAACAGCTATGAC	17

Recommended Usage

Use 2 μl of the 2 μM (2 pmol/ μl) solution for a 20 μl reaction volume.

Follow sequencing kit & reagent manufacturer specific reaction conditions for more details.

Quality Control Data

This product is certified to prime DNA synthesis by a DNA polymerase.

Functional Assay Conditions

The conditions given below have been tested to yield sequencing runs using ABI Big dye terminator sequencing reagents.

Component

Trx: 5 μl

Primer 4pmol (2 μl of 2 μM (2 pmol/ μl) solution

DNA 1 μg (3 μl)

Water to 20 μl (10 μl)

Total Volume 20 μl

Related Products

Gene Link stocks various oligo dT primers, oligo dTVN primer, Oligo dT T7 primer, random primers, including an array of fluorescent dye labeled primers for genetic analysis using florescent detecting instruments. The C-12 amino labeled primers are ready to be conjugated to the investigators choice of NHS-activated ligand.

Random Primers are a mixture of oligonucleotides representing all possible sequence for that size. Random Primers can be used to prime synthesis in oligo-labeling similar to using hexamers (1,2) and cDNA synthesis. Random prime labeling yields high specific activity labeled DNA probe which can be used for all southern, northern and in situ hybridization studies. Random Primers can be also used similar to using hexamers in cDNA synthesis in combination with oligo dT to yield more 5' end cDNA sequence.

Catalog No.	Product Description	Qty
26-3000-01	M13/pUC (-20) 17mer	25 ug
26-3000-02	M13/pUC Reverse (-24) 16mer	25 ug
26-3000-03	M13/pUC (-40) 17mer	25 ug
26-3000-04	M13/pUC Reverse (-48) 24mer	25 ug
26-3000-51	M13 For Seq	25 ug
26-3000-52	M13 Rev Seq	25 ug
26-3000-05	T7 promoter primer 23mer	25 ug
26-3000-06	T3 Promoter primer 20mer	25 ug
26-3000-21	T7- Bluescript promoter primer	25 ug
26-3000-22	T3- Bluescript promoter primer	25 ug
26-3000-53	T3 Seq	25 ug
26-3000-54	T7 Seq	25 ug
26-3000-55	T7 Seq Long	25 ug
26-3000-56	T7 terminator	25 ug
26-3000-07	SP6 Promoter primer 24mer	25 ug
26-3000-12	SP6 Universal 18mer	25 ug
26-3000-08	Lambda gt11 forward primer 24mer	25 ug
26-3000-09	Lambda gt11 reverse primer 24mer	25 ug
26-3000-10	Lambda gt10 forward primer 21mer	25 ug
26-3000-11	Lambda gt10 reverse primer 24mer	25 ug

Related Product Ordering Information

Oligo dT unlabeled primers

Catalog No.	Product Description	Quantity
26-4000-04	Oligo d(T) 12	100 µg
26-4000-01	Oligo d(T)16	100 µg
26-4000-02	Oligo d(T)18	100 µg
26-4000-05	Oligo d(T)12-18	100 µg
26-4002-10	Oligo d(T)23	50 µg
26-4002-11	Oligo d(T)23 VN	50 µg
26-4002-16	Oligo d(T)36	50 µg
26-3000-23	T7 Oligo d(T)23	25 µg
26-3000-24	T7 Oligo d(T) 23 VN	25 µg
26-3000-25	T7 Short Oligo d(T)23	25 µg
26-3000-26	T7 Short Oligo d(T) 23 VN	25 µg
26-3000-27	T7 Long Oligo d(T)23	25 µg
26-3000-28	T7 Long Oligo d(T) 23 VN	25 µg

Visit www.genelink.com for a complete list of fluorescent dye labeled oligo dT primers

Related Product Ordering Information

Random Primers

Catalog No.	Product Description	Quantity
26-4000-03	Random Hexamers	100ug
26-4000-06	Random Nonamers	100ug
26-4000-07	Random Heptamer Phosphorylated pd(N)7	50ug
26-4000-08	Random Octamer Phosphorylated pd(N)8	50ug
26-4000-09	Random Nonamer Phosphorylated pd(N)9	50ug
26-4000-10	Random Hexamer Phosphorylated pd(N)6	50ug
26-4000-11	Random Heptamer	100ug
26-4000-12	Random Octamer	100ug
26-4000-13	Random 12mers	100ug
26-4000-16	Random 15mer	100ug
26-4000-14	Random 24mers	100ug
26-4000-15	Random 36mers	100ug
26-4000-17	Random 60mer	100ug
26-4001-13	Random Hexamer 72%GC	100ug
26-4001-16	Random Nonamers 72%GC	100ug
26-4001-17	Random 36mer 72%GC	100ug
26-4001-18	Random 60mer 72%GC	100ug