Product Specification

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

T7, T3 & SP6 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
❑	26-3000-05	T7 promoter primer 23mer	23	25 ug	3.56
❑	26-3000-06	T3 Promoter primer 20mer	20	25 ug	4.07
❑	26-3000-21	T7- Bluescript promoter primer	22	25 ug	3.68
❑	26-3000-22	T3- Bluescript promoter primer	20	25 ug	4.13
❑	26-3000-53	T3 Seq	17	25 ug	4.87
❑	26-3000-54	T7 Seq	17	25 ug	4.81
❑	26-3000-55	T7 Seq Long	20	25 ug	4.06
❑	26-3000-56	T7 terminator	20	25 ug	4.12
❑	26-3000-07	SP6 Promoter primer 24mer	24	25 ug	3.38
❑	26-3000-12	SP6 Universal 18mer	18	25 ug	4.52

Description

The T7, T3 and SP6 RNA polymerase primers are complementary to the conserved class III sequence. Sequencing data will be obtained for all templates containing the Class III RNA polymerase promoter 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.

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 reconstitution to prepare a 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
26-3000-05	T7 promoter primer 23mer	TAATACGACTCACTATAGGGAGA	23
26-3000-06	T3 Promoter primer 20mer	ATTAACCCTCACTAAAGGGA	20
26-3000-21	T7- Bluescript promoter primer	GTAATACGACTCACTATAGGGC	22
26-3000-22	T3- Bluescript promoter primer	AATTAACCCTCACTAAAGGG	20
26-3000-53	T3 Seq	ATTAACCCTCACTAAAG	17
26-3000-54	T7 Seq	AATACGACTCACTATAG	17
26-3000-55	T7 Seq Long	TAATACGACTCACTATAGGG	20
26-3000-56	T7 terminator	GCTAGTTATTGCTCAGCGGT	20
26-3000-07	SP6 Promoter primer 24mer	CATACGATTTAGGTGACACTATAG	24
26-3000-12	SP6 Universal 18mer	ATTTAGGTGACACTATAG	18

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: 5µl
Primer 4pmol (2µl of 2 µM (2 pmol/ µl) solution
DNA 1µg (3µl)
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