



# Invitrogen Custom Primers fax order form

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**U.S.A. orders:**

Fax: 800 331 2286  
Phone: 800 828 6686

**Latin America orders:**

Fax: 301 258 8238  
Phone: 301 840 4027

Internet: www.invitrogen.com  
E-mail: primers@invitrogen.com

**ship-to information**

customer number: \_\_\_\_\_  
institution: \_\_\_\_\_  
shipping address: \_\_\_\_\_  
\_\_\_\_\_  
city, state, zip: \_\_\_\_\_  
attention: \_\_\_\_\_  
telephone: \_\_\_\_\_  
fax number: \_\_\_\_\_  
e-mail address: \_\_\_\_\_

**bill-to information**

purchase order number: \_\_\_\_\_  
customer number: \_\_\_\_\_  
institution: \_\_\_\_\_  
bill to address: \_\_\_\_\_  
\_\_\_\_\_  
city, state, zip: \_\_\_\_\_  
charge to:  visa  masterCard  american express  
credit card number: \_\_\_\_\_  
expiration date: \_\_\_\_\_ signature: \_\_\_\_\_

**Additional order information**

order placed by: \_\_\_\_\_  
telephone: \_\_\_\_\_

quote number: \_\_\_\_\_  
(if applicable)  
contract/release number: \_\_\_\_\_  
(if applicable)

**Instructions:** Please provide purchase order number and complete ship-to information, including telephone or fax number to ensure proper processing. To avoid confusion, please enter the sequence from 5' to 3' clearly differentiating the bases by using upper-case T and A, and lower-case g and c.

Please use the following codes when identifying non-standard or mixed bases. U = deoxyuracil, I = deoxyinosine, N = A + c + T + g, R = A + g, Y = c + T, M = A + c, K = T + g, S = c + g, W = A + T, H = A + T + c, B = T + c + g, D = A + T + g, V = A + c + g, F = A-phosphorothioate, O = c-phosphorothioate, E = g-phosphorothioate, Z = T-phosphorothioate.

**Primer 1** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
purity:  desalted  cartridge  HPLC  PAGE  
modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

**Primer 2** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
purity:  desalted  cartridge  HPLC  PAGE  
modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

# Invitrogen Custom Primers fax order form

**Primer 3** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
 Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
 purity:  desalted  cartridge  HPLC  PAGE  
 modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

**Primer 4** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
 Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
 purity:  desalted  cartridge  HPLC  PAGE  
 modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

**Primer 5** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
 Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
 purity:  desalted  cartridge  HPLC  PAGE  
 modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

**Primer 6** primer name: \_\_\_\_\_ researcher name: \_\_\_\_\_  
 Sequence 5' to 3'

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100																				

select: starting scale:  10 nmole  50 nmole  200 nmole  1 µmole  10 µmole  
 purity:  desalted  cartridge  HPLC  PAGE  
 modifications: \_\_\_\_\_ format:  tubes  plate (min. of 48)

bases	#	\$	_____
purity/mods		\$	_____
<b>total</b>		\$	_____

## ordering

Orders are accepted by fax, mail and e-mail. Please fully complete the information on the other side of this form. A convenient e-mail order format or multi-primer e-mail order format is available for trouble-free transmissions, which may be accessed through our web page or by calling Customer Service. Or order directly via Internet at [www.invitrogen.com](http://www.invitrogen.com); e-mail may be sent to [primers@invitrogen.com](mailto:primers@invitrogen.com).

## price

To determine Custom Primer price, use the following formula: (number of total bases) x (\$/base) + (number of modified bases) x (additional \$/base) + purification charge + 5' modification charge + shipping charge.

Starting scale /yield*	\$/base	Purity (\$/primer)			
		Desalted	Cartridge	HPLC**†	PAGE†
10 nmole <sup>‡</sup> / > 0.5 OD*	\$0.69	\$0	NA	NA	NA
50 nmole / > 5 OD*	\$1.00	\$0	\$24	NA	NA
200 nmole / > 20 OD*	\$1.89	\$0	\$24	\$75	\$75
1 μmole / > 50 OD*	\$3.00	\$0	\$30	\$100	\$129
10 μmole / > 500 OD*	\$23.00	\$0	\$124	\$300	\$400

\* Minimum yield for unmodified, desalted purity primers > 20 bases; for additional yield information on shorter primers or other purifications please call or visit our web site [www.invitrogen.com](http://www.invitrogen.com). Starting scale of synthesis does not correspond to final yield of primer.

\*\* HPLC purification is not offered for primers over 50 bases.

† All primers ordered at 10 nmole scale must be ≤ 60 bases.

‡ HPLC and PAGE purification require a 200 nmole starting scale of synthesis.

Scale	Modified Bases (additional \$/base)			
	Mixed Bases	Uracil (deoxy)	Inosine (deoxy)	Phosphorothioates* (S-oligos)
10 nmole	\$0	\$7	\$8	NA
50 nmole	\$0	\$7	\$8	\$5
200 nmole	\$0	\$7	\$8	\$8
1 μmole	\$0	\$10	\$16	\$13
10 μmole	\$0	\$20	\$32	Inquire**

\* Available cartridge, HPLC, or PAGE purified only. The 3' base in a primer cannot be a phosphorothioated base.

\*\* Available HPLC or PAGE purified only.

Scale	5' Modifications, Fluorescent Dyes (additional \$/primer)						
	5' Fluorescein	5' HEX, TET or FAM	5' Rhodamine	5' ROX*	5' TAMRA*	5' TEXAS RED**	5' Molecular Probe Dyes*†
10 nmole	\$39	\$55	NA	NA	NA	NA	NA
50 nmole	\$49	\$79	\$130	NA	NA	NA	NA
200 nmole	\$49	\$79	\$130	\$150	\$150	\$49	\$150
1 μmole	\$110	\$210	\$130	\$250	\$250	\$119	\$250
10 μmole	\$275	\$500	\$275	\$500	\$500	\$275	Inquire

All price modifications are in addition to the standard per base charge.

\* Modifications require purification by HPLC or PAGE.

\*\* Purifications by HPLC not available.

† Full listing of Molecular Probe Dyes available on the web page or in the catalogue.

Scale	5' Modifications and Labels						
	5' Acridine*	5' Biotin	5' Alkaline Phosphatase*	5' Horseradish Peroxidase*	5' Phosphate	5' Primary Amine	5' Psoralen*
10 nmole	NA	\$39	NA	NA	\$20	\$25	NA
50 nmole	NA	\$49	NA	NA	\$25	\$25	NA
200 nmole	\$49	\$49	NA	NA	\$25	\$25	\$100
1 μmole	\$110	\$110	\$475	\$250	\$56	\$45	\$110
10 μmole	\$275	\$375	Inquire	Inquire	Inquire	\$275	\$275

All price modifications are in addition to the standard per base charge.

\* Modifications require purification by HPLC or PAGE.

## service and delivery

Type of Primers	Ship	Receipt
Desalted, unmodified, ≤ 45 bases, ordered before 5 p.m. Eastern Time*	Ship 24 hours	2nd business day
Desalted, cartridge, and phosphorylated primers, ≤ 60 bases	Ship 48 hours	3rd business day
1 μmole scale ≤ 60 bases, 5' modified and phosphorothioate primers**	Ship 4 business days	5th business day
HPLC and PAGE purity primers	Ship 5 business days	6th business day
5' modifications with HPLC or PAGE	Ship within 7 days	8th business day
Horseradish Peroxidase and Alkaline Phosphatase primers	Ship within 14 days	15th business day

A shipping/handling charge of \$12.50 per order will be applied.

\* All primers on order must be ≤ 45 bases for next day shipping.

\*\* HEX, TET, and FAM labeled ship in 6 business days.

## technical support

Invitrogen brings superior technical support in the form of our TECH-LINE<sup>SM</sup> for help in designing oligonucleotides, as well as instruction and troubleshooting in applications such as mutagenesis, sequencing, PCR, and gene construction.

## product description

Custom Primers are available in two formats: lyophilized in 2-ml microcentrifuge tubes or lyophilized in 96-well plates for automated operations. A minimum of 48 primers must be ordered for the 96-well plate format.

Desalted primers are purified by normal phase chromatography for removal of residual by-products from the synthesis, cleavage, and deprotection steps. Desalted purity primers are suitable for PCR and sequencing. Cartridge purity employs the trityl group from the last base addition and reverse phase chromatography to effectively enrich for full-length product. HPLC and PAGE purifications offer the highest level of purity for use in mutagenesis and gene synthesis. PAGE is recommended for purifying primers > 50 bases long. Expected yields from cartridge, HPLC, and PAGE purifications are significantly lower than desalted primers. See [www.invitrogen.com](http://www.invitrogen.com) for more information on expected yields.

A comprehensive certificate of analysis accompanies each oligonucleotide indicating quantity, molecular weight, extinction coefficient, sequence, and melting temperature.

## quality guarantee

Invitrogen guarantees that each Custom Primer will be the correct sequence as specified and meet the specifications stated on the certificate of analysis. If you are not completely satisfied, we will replace the product free of charge or issue a credit.