

* 주문 및 기술문의 : (주)진올바이오테크놀로지

Tel: 02-407-0096

Email: oligos@geneall.com , Homepage: www.geneall.com

Custom Oligo

Price per Base	0.025 µmole*	0.05 µmole	0.2 µmole	1 µmole	10 µmole
Price Per DNA Base	400	500	800	3,200	19,900
Price Per RNA Base	N/A	7,000	9,000	13,000	Please inquire
S-Oligo Per Base**	N/A	N/A	3,000	8,000	11,000
2' O Methyl RNA Base	21,000	28,000	99,000	397,000	N/A

* The 0.025 µmole scale is for desalted oligos 10-50 bases in length.

** S-Oligo = Phosphorothioate

Purification Charge	0.025 µmole	0.05 µmole	0.2 µmole	1 µmole	10 µmole
Desalt (DST)	Free	Free	Free	Free	Free
Reverse-Phase Cartridge (RP1)	N/A	10,000	10,000	10,000	N/A
PAGE	N/A	30,000	30,000	30,000	N/A
HPLC	N/A	40,000	40,000	40,000	75,000

Modification Price	0.025 µmole	0.05 µmole	0.2 µmole	1 µmole	Recommended Purification
5'- 6-FAM	N/A	42,000	68,000	103,000	DST, RP1, HPLC, PAGE
5'- Amine C6 TFA	N/A	27,000	41,000	59,000	DST, PAGE
5'- Biotin	N/A	40,000	57,000	80,000	DST, RP1, HPLC, PAGE
5'- Cy3	N/A	114,000	171,000	239,000	HPLC
5'- Cy 5	N/A	114,000	171,000	239,000	HPLC
5'- Cy 5. 5	N/A	125,000	188,000	262,000	HPLC
5'- Fluorescein	N/A	46,000	68,000	103,000	DST, HPLC
5'- HEX	N/A	46,000	68,000	103,000	DST, RP1, HPLC, PAGE
5'- JOE	N/A	46,000	68,000	103,000	HPLC
5'- Phosphorylation	N/A	34,000	44,000	66,000	DST, RP1, HPLC, PAGE
5'- TET	N/A	46,000	68,000	103,000	DST, HPLC
5'- Thiol C6 S-S	N/A	40,000	57,000	80,000	DST, HPLC
5' or 3'- ROX	N/A	114,000	171,000	239,000	HPLC
5' or 3'- TAMRA	N/A	165,000	228,000	329,000	HPLC
5' or 3'- Texas Red	N/A	114,000	171,000	239,000	HPLC
3'- Amine C7	N/A	46,000	57,000	80,000	DST, HPLC, PAGE
3'- BHQ-1	N/A	55,000	82,000	109,000	HPLC
3'- BHQ-2	N/A	60,000	90,000	135,000	HPLC
3'- Biotin	N/A	46,000	63,000	91,000	DST, HPLC, PAGE
3'- Dabcyl	N/A	68,000	103,000	137,000	HPLC
3'- Fluorescein	N/A	46,000	68,000	103,000	DST, RP1, HPLC
3'- Phosphorylation	N/A	34,000	46,000	68,000	DST, RP1, HPLC, PAGE
3'- Thiol C3 S-S	N/A	46,000	63,000	91,000	DST, HPLC
Internal- Inosine	23,000	32,000	112,000	391,000	DST, RP1, HPLC, PAGE

* 본 리스트 이외의 Modification 및 용량은 문의 바랍니다. * 상기가격은 부가세별도가(원)입니다.

* Standard Oligo 소비자가격 계산방법 :

Price per Oligo = (Number of bases x Price per base) + Purification charge + Modification charge (if requested)

Guaranteed Yield for Standard DNA Oligos

Purification Method	0.025 µmole (3 OD select)	0.05 µmole	0.2 µmole	1 µmole	10 µmole	15 µmole
Desalting	3 OD	5 OD	12 OD	40 OD	400 OD	600 OD
	90 µg	150 µg	360 µg	1,200 µg	12,000 µg	18,000 µg
Reverse-Phase Cartridge (RP1)	N/A	1 OD	3 OD	12 OD	N/A	N/A
	N/A	30 µg	90 µg	360 µg	N/A	N/A
HPLC	N/A	1 OD	2.5 OD	13 OD	130 OD	190 OD
	N/A	30 µg	75 µg	390 µg	3,900 µg	5,700 µg
PAGE	N/A	0.5 OD	1 OD	5 OD	N/A	N/A
	N/A	15 µg	30 µg	150 µg	N/A	N/A

Yields are based on non-modified 20 mer. Shorter oligos or modified oligos will have proportionally fewer OD units.

Guaranteed Yield for Standard RNA Oligos

Purification Method	0.05 µmole	0.2 µmole	1 µmole
Desalting	5 OD	12 OD	40 OD
	150 µg	360 µg	1,200 µg
HPLC	1 OD	2.5 OD	13 OD
	30 µg	75 µg	390 µg
PAGE	0.5 OD	1 OD	5 OD
	15 µg	30 µg	150 µg

WellRED Oligo

Yield (Purification)	1 OD (PAGE)	2 OD (RP1)	4 OD (RP1)	5 OD (HPLC)	10 OD (HPLC)
WellRED (D2-PA)	253,000	164,000	Inquire	Inquire	Inquire
WellRED (D3-PA)	253,000	164,000	Inquire	Inquire	Inquire
WellRED (D4-PA)	253,000	164,000	Inquire	Inquire	Inquire

Custom Fluorescent Probe

* Custom DNA probe의 경우, O.D. 기준으로 packaging되며 Purification 비용과 Modification 비용이 모두 포함된 Probe Unit당 가격입니다.
 * Free Custom Design Service : 귀하의 Target과 실험에 가장 적합한 Probe를 무료로 디자인하여 드립니다

① Dual-Labeled Probes (15 - 40 bases, widely-used for real-time qPCR)

	1 OD	3 OD	5 OD	10 OD
5' end: Cy3, Cy5, Cy5.5, 6-Fam, Hex, Tet, Fluorescein, Joe, Rox, Texas Red & 3' end: Tamra, BHQ1, BHQ2, BHQ3 (HPLC purified)	257,000	334,000	446,000	719,000

② LNA® Dual-Labeled Probes (7 to 40 bases, may include up to 8 LNA Bases)

	1 OD	3 OD	5 OD	10 OD
5' end: 6-Fam, Hex, Tet, Fluorescein & 3' end: Tamra (HPLC purified)	552,000	642,000	909,000	1,604,000
5' end: 6-Fam, Hex, Tet, Fluorescein & 3' end: BHQ1 (HPLC purified)	695,000	809,000	980,000	1,907,000

③ Molecular Beacons (15 - 40 bases)

	1 OD	3 OD	5 OD	10 OD
5' end: 6-Fam, Hex, Joe, Tet & 3' end: BHQ1 (HPLC purified)	695,000	809,000	980,000	1,907,000
5' end: Cy3, Cy5, Rox & 3' end: BHQ2 (HPLC purified)	695,000	809,000	980,000	1,907,000
5' end: 6-Fam, Cy3, Cy5, Hex, Joe, Rox, Tet & 3' end: Dabcyl (HPLC purified)	552,000	642,000	909,000	1,604,000

④ LNA® Molecular Beacons (7 to 40 bases, may include up to 8 LNA Bases)

	1 OD	3 OD	5 OD	10 OD
5' end: 6-Fam, Hex, Tet, Fluorescein & 3' end: Dabcyl (HPLC purified)	552,000	642,000	909,000	1,604,000
5' end: Hex, Tet, Fluorescein & 3' end: BHQ1 (HPLC purified)	695,000	809,000	980,000	1,907,000

⑤ Scorpions™ Probes (Uni-probe: 30 - 60 bases, Bi-probe: 15 - 45 bases)

	1 OD	5 OD	10 OD
[Scorpion uni-probe, HPLC purified] 5' end: 6-FAM, Fluorescein, HEX, TET & 3' end: BHQ + HEG Blocker	570,000	1,066,000	2,082,000
[Scorpion uni-probe, HPLC purified] 5' end: Cy3, Cy5, JOE, ROX, TAMRA, Texas RED & 3' end: BHQ + HEG Blocker	695,000	1,090,000	2,157,000
[Scorpion uni-probe, HPLC purified] 5' end: 6-FAM, Fluorescein, HEX, TET & 3' end: Dabcyl + HEG Blocker	546,000	1,112,000	2,107,000
[Scorpion uni-probe, HPLC purified] 5' end: Cy3, Cy5, JOE, ROX, TAMRA, Texas RED & 3' end: Dabcyl + HEG Blocker	695,000	1,112,000	2,133,000
[Scorpion bi-probe (Reporter), HPLC purified] 5' end: 6-FAM, Fluorescein, HEX, TET & 3' end: HEG Blocker	384,000	743,000	1,437,000
[Scorpion bi-probe (Reporter), HPLC purified] 5' end: Cy3, Cy5, Cy5.5, Joe, Rox, TAMRA, Texas Red & 3' end: HEG Blocker	470,000	991,000	1,933,000
[Scorpion bi-probe (Quencher), HPLC purified] 3' end: BHQ1, BHQ2	248,000	495,000	954,000
[Scorpion bi-probe (Quencher), HPLC purified] 3' end: Dabcyl, TAMRA	223,000	361,000	373,000

⑥ Light Cycler® Probes (15 - 40 bases)

	0.1 OD	0.25 OD	1.5 OD	15 OD
[Probe 1] 3' end: Fluorescein (HPLC purified)	87,000	157,000	184,000	740,000
[Probe 2] 5' end: Red 610, 640, 670 /705 & 3' end: Phosphate (HPLC purified)	320,000	380,000	497,000	1,129,000
[Probe 2] Internal: Red 610, Red 640 (HPLC purified)	320,000	380,000	497,000	1,129,000

⑦ LNA® Light Cycler® Probes

	0.1 OD	0.25 OD	1.5 OD
[Probe 1] 3' end: LNA Light Cycler Fluorescein (HPLC purified)	208,000	250,000	530,000
[Probe 2] 5' end: LNA Lightcycler RED 640 & 3' end: Phosphate (HPLC purified)	339,000	407,000	678,000

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Pre-designed siRNA

Standard siRNA

	10 nmol	25 nmol	50 nmol	Gene Family Sets
MISSION™ siRNA (Desalt standard)*	206,000	355,000	473,000	hquire
MISSION™ siRNA (HPLC purified)*	405,000	599,000	788,000	N/A
	0.25 nmol	Gene Family Sets		
MISSION™ Nano scale siRNA (Desalt standard)**	42,000	Inquire		
	1 nmol	5 x 1 nmol	10 nmol	
SIC001 MISSION™ siRNA Universal Negative Control #1***	135,000	189,000	363,000	
SIC002 MISSION™ siRNA Universal Negative Control #2***	135,000	189,000	363,000	

* 한 유전자에 대해 3개 이상의 siRNA를 구매하신 경우에 한해, 75% knockdown (mRNA level) 보증서비스를 제공하여 드립니다.
 ** Nano scale siRNA : over 2,400 siRNAs targeting kinases at 0.25 nmole scale.
 *** Positive siRNA control은 문의 바랍니다.

Endoribonuclease-prepared siRNA

	2 nmol (20 ug)	5 nmol (50 ug)	Gene Family Sets**
MISSION™ esiRNA*	221,000	394,000	hquire

* 1개의 esiRNA를 구매하셔도 70% knockdown (mRNA level) 보증서비스를 제공하여 드립니다(transfected at 30 nM or greater in cultured cells).
 ** esiRNA는 individual vial, custom arrayed panel (96/384 well plate), genome scale library 등으로 주문제작 가능합니다(eisFlex service).

Custom siRNA Service

Custom siRNA

	2 OD	5 OD	10 OD
Custom siRNA (double strand)	257,000	390,000	498,000
Custom siRNA (single strand)	124,000	187,000	234,000
Purification Charge	2 OD	5 OD	10 OD
Desalt	Free	Free	Free
HPLC	40,000	40,000	40,000
Modifications	2 OD	5 OD	10 OD
5'- 6-FAM	215,000	287,000	323,000
5'- Amine C6 TFA	215,000	287,000	309,000
5'- Biotin	229,000	301,000	337,000
5'- Cy3, Cy5, Cy5.5	237,000	285,000	323,000
5'- Fluorescein	180,000	466,000	610,000
5'- Phosphorylation	108,000	129,000	158,000
3'- 6-FAM	108,000	129,000	186,000
3'- Amine C7	137,000	172,000	244,000
3'- Biotin	108,000	129,000	186,000
3'- Cy3, Cy5, Cy5.5	237,000	285,000	323,000
3'- Fluorescein	180,000	466,000	610,000
3'- Phosphorylation	108,000	129,000	158,000

* 한 유전자에 대해 3개 이상의 siRNA를 구매하신 경우에 한해, 5% 추가할인과 75% knockdown (mRNA level) 보증서비스를 제공하여 드립니다.
 * 본 리스트 이외의 Modification 및 용량은 문의 바랍니다.

Custom *In Vivo* Quality siRNA : 동물실험에 최적화된 superior quality의 siRNA 합성 서비스

- Endotoxin tested (≤ 1 EU/mg), HPLC purified ($\geq 90\%$ pure), Dialysis of annealed product, 0.22 μ m sterile filtered
- Various modifications available

microRNA

Pre-made microRNA Mimics

	Individual - 5 nmol	Library set (985 miRNAs)
MISSION™ Human microRNA Mimics*	313,000	hquire
MISSION™ microRNA Negative Control	313,000	-

* Custom miRNA mimics design 가능

Over 10,000 human 3'UTR reporter clones for miRNA activity monitoring

	Unit price
MISSION™ 3'UTR Lenti GoClone*	552,000
MISSION™ 3'UTR Lenti GoClone - Negative Controls*	552,000

* Format : 200 μ L of at least 10^5 TU/mL lentiviral particles are provided as frozen stock.

TRC shRNA Library

Pre-made shRNA clones

	Format*	Customer type	Single Clone	Target Set**
MISSION™ TRC shRNA	Glycerol Stock	대 학/병 원	261,000	522,000
		일 반	300,000	600,000
	Plasmid DNA	All	399,000	798,000
	Lentivirus	All	455,000	910,000

* Format discription

- **Glycerol Stock** : 500 uL of a frozen *E. coli* glycerol stock transformed with a pre-cloned shRNA plasmid
- **Plasmid DNA** : 50 uL of pre-cloned shRNA plasmid DNA in TE buffer (20 ng/mL)
- **Lentivirus** : Ready-to-use 200 uL of pre-cloned shRNA lentivirus in DMEM (1 x 10⁶ TU/mL)

** **Target Set** 이란? - 한 target gene에 대한 4~5개의 shRNA clone들을 한 패키지로하는 set 제품으로서, 70% knockdown (mRNA level) 보증서비스를 제공합니다.

*** 다양한 gene family set의 선택가능 (ex. Apoptosis genes, Ion channel genes, Kinase genes 등).

*** 기본 vector인 TRC-pLKO-puro vector 이외의 다양한 vecotor에 custom cloning service 가능 (GFP, RFP, IPTG inducible 등, 문의)

*** 실험목적에 따른 다양한 positive/negative shRNA controls 선택가능