





END TO END SOLUTION FOR OLIGO SYNTHESIS

PRODUCTS CATALOGUE

Manufacturer of DNA/RNA Synthesizers, Accessories Instruments. Oligo synthesis Consumables, Reagents, and etc.

CERTIFICATIONS





















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PABOUT US



Hunan Honya Biotech Co., Ltd. was founded by a PhD in automation and a master in molecular biology with over 10 years of experience in the DNA/RNA field.

We are a scientific and innovative enterprise integrating R&D, production and sales, focusing on DNA/RNA Synthesizer, Pipetting Workstations, Elution Equipment, Deprotection Equipment, Amidite Dissolved Equipment, Purification Workstation, Synthesis Columns, Phosphoramidites, Modification Amidite, Synthesis Reagents, and various consumables etc. Providing End to End solutions for automated laboratories, the equipment can be customized to make DNA/RNA synthesis more efficient and flexible.





In charge of oversea sales.

Honya Biotech



Beijing Factory

R&D and production of oligo synthesis equipment.



Qingdao Factory

R&D and production of the chemicals and consumables

P BUSINESS SCOPE



INSTRUMENTS:

Oligo Synthesizers & Synthesis Accessories Equipment (e.g. deprotection equipment, elution equipment, purification equipment, workstation etc.)



CONSUMABLES:

Oligo Synthesis Columns, Sieve Plates, Filters, Molecular Traps, Collection Plates, and other various consumable applied for oligo synthesis.



RAW MATERIAL:

Phosphoramidites, Modified Amidites and CPG for oligonucleotide synthesis.











The synthesized primers can be used for sequencing ,SNP loci,polymerase chain reaction(PCR), hybridization RT-PCR and reverse transcription, also meets the ISO & CE and other international standard.

HY-01 OLIGO SYNTHESIZER



Optional Trityl Monitor

This model is developed for medium and large scale DNA/RNA synthesis. It is a fast and flexible professional equipment with extremely low reagent consumption. The sole technology mixing function can improve the reaction efficiency and save a lot of reagent.

ADVANTAGES



Innovative Mixing Function

Make sure the filling material can react with reagent completely, shorten the reaction time and improve the efficiency of synthesis.



Large Synthesis Scale

Synthesis scales up to 7 mmol.



Independent Pipe System

Each reagent has sole pipeline from the bottle to column, there is no channels crossing. effectively prevents cross contamination between liquids.



Fully Enclosed Synthesis

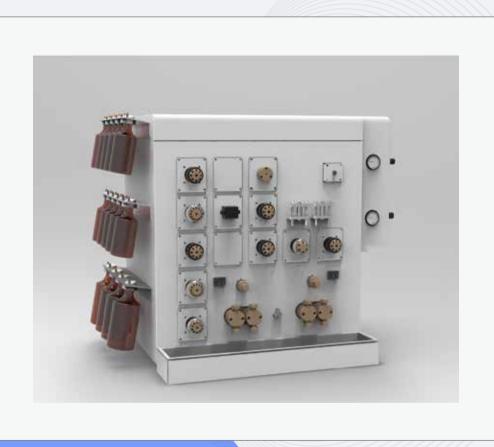
The closed synthesis environment effectively avoids the influence of moisture and air pollution.

SPECIFICATION

Synthesis scale	500nmol–7mmol
Phosphoramidites bottle	8 sets
Reagent bottle	7 sets
Cycle Time	6–8 minutes
Power	Single-phase 220V.
Working Temperature	25℃ ± 4℃
Relative Humidity	Within 45%
Size	450 × 500 × 600mm

• Working conditions and safety requirements comply with relevant Chinese and international standards or regulations.

HY-014 LARGE SCALE OLIGO SYNTHESIZER



This model is a highly efficient and flexible synthesizer that suits for large scale oligo synthesis. It can synthesis faster and effectively with scales from 10umol to 12mmol, which applicable to Clinical research, drug discovery and synthesis of molecular diagnostic probes.

ADVANTAGES

- Ol Good stability, High accuracy & anti–corrosive pump;
- 02 Highly automatic and low reagent consumption;
- O3 Amidite solution recycling;
- 04 High efficiency with 20 minutes per run;
- Real time on-line monitoring of UV, conductance signal and pressure;
- 06 User friendly control software, easy to operate.

SPECIFICATION

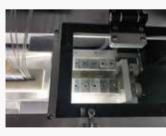
Compatible with standard chemistry synthesis reagents e.g. OXI, ACT, ACN, CapA, CapB, SOL, SUL etc.

Pump	2 sets
Synthesis Scale	10umol-12mmol
Phosphoramidites bottle	12 (Up to 16)
Reagent Bottle	10 sets
Coupling rate	> 99% for DNA; > 98% for RNA
Cycle Time	4.5 to 25min (standard DNA)
Maximum Flow Rate	180ml/min
Maximum Operating Pressure	25bar
Humidity Protection	dry inert gas
Pressure Supply for Inert Gas	5-10bar
Supply Requirements for Insert Gas	10-50NL
Power Supply	110-230VAC, 50-60Hz
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HY-12 OLIGO SYNTHESIZER



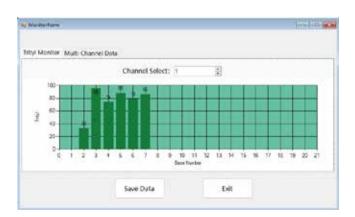
performing medium throughput oligo





X-Y dual axis motion, with fast delivery and space saving.

Optional Trityl Monitor



ADVANTAGES

X-Y Dual Axis Motion

Unique X-Y dual axis motion design, fast synthesis speed with high efficiency.

Space Saving & Convenient

Smaller size than others, with built-in computer with lastest window operation system, space-saving and cost-effective than others.

OXI/ SUL Can Be Configured Separately

Enable user to configure for OXI/SUL, easy to operate.

Flexible Modular System

Adopts modular design system, it's easy to plus or minus the blocks and change the configuration in

AMI/MODIFY Can Be Flexibly Configured

The standard amidite and modified amidite can be flexibly configured to meets user's different synthesis project needs.

Optional Trityl Monitor

Users can customize this program so as to get real-time monitoring of valve electrical integrity during synthesis, reduced waste and ensure the delivery of reagents.









√ Various types

√it can be customized

Channel	12	Synthesis product	DNA/RNA Fluorescent labels, probes, thio, etc.
Synthesis mode	Reagents are injected separately	Synthesis cycle (20mer)	12 primers of 20bp within 2.5 hours
Cycle time	4–6 minutes	Synthesis Range	25nmol-300umol
Coupling rate	>99%	Maximum length	120bp
Solid support	synthesis columns	Waste liquid discharge	Vacuum Pump
Phosphoramidite bottle	12 sets(standard), 20 sets (Max expand)	Reagent bottle	9 sets
Synthesis of annexation bases	Automatic synthesis of concatenated bases without manual reagent configuration	Size of reagent bottle	450ml/4L and other size
Data Import	Automatic import of synthetic sequences via Excel sheets	Gas	Nitrogen or Argon

HY-192 OLIGO SYNTHESIZER





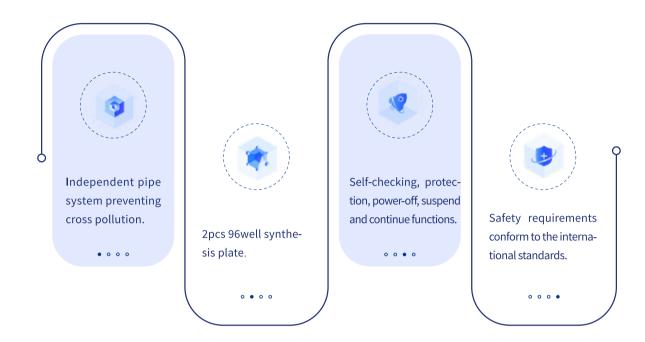






Synthetic primers can be used for sequencing reactions, SNP sites, polymerase chain reaction (PCR) technology, hybridization and reverse transcription polymerase chain reaction and gene construction, and can also meet ISO and GMP synthesis. Of course, you can go through a different program that can synthesize the primers you want.

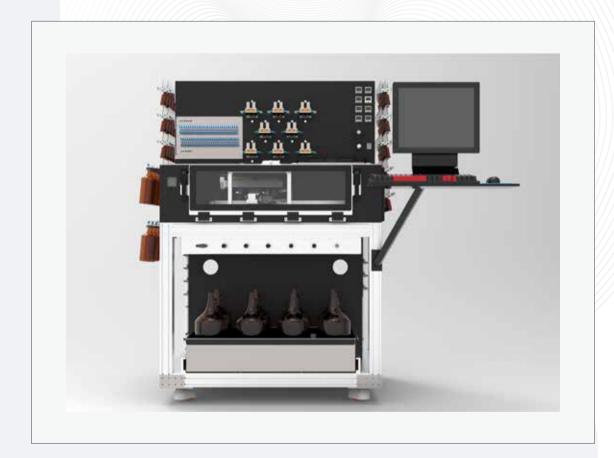
ADVANTAGES



SPECIFICATION

Single channel synthesis scale	5nmol-5umole
Synthesis cycle time	up to 6–8 minutes
Synthesis cycle (20mer)	2–3 hours
Phosphoramidite bottle base	8–12 sets
Reagent bottle base	9 sets
Base bottle	60/240/480ml screw universal reagent bottle
Auxiliary reagent bottle	GL38 bottle for universal 4L reagent bottles
Reagent driving method	protective gas down pressure type
Waste liquid discharge	vacuum pump
Coupling rate	99%
The maximum length	exceeds 120mer
Working temperature	20C° ± 5C°
Relative humidity	within 40%.
Persistence of the operation	It can operate normally and continuously.
Monitor	LCD
Warranty	1 Year

HY-192P OLIGO SYNTHESIZER



Amidite bottle Max 64 bases

WORKING CONDITIONS

- O Power Supply: 220V single phase.
- Working Temperature: 20° C ± 5° C.
- © Relative Humidity: <40%.
- O Performance: can work continuously with stability.
- The working condition and safety management complied with Chinese and international standards, regulations and other requirements.



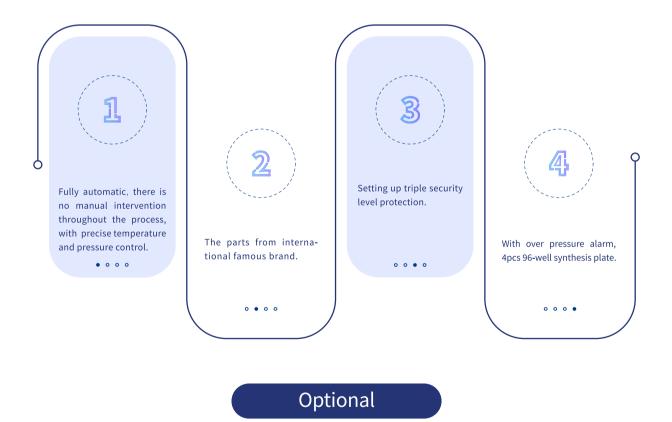
Channel	192
Synthesis Scale	5nmol–5umol
Amidite bottle base	Up to 64
Reagent bottle base	Up to 9
Cycle Time	6~8 minutes
Synthesis Cycle(20mer)	2~3 H
Bottle type	60/240/480ml with screw universal reagent bottle
Auxiliary Reagent Bottle	GL38 Screw Cap for 4L reagent bottle
Reagent Driving Method	Protective gas down pressure
Waste Liquid Discharge	Vacuum Pump
Coupling rate	99%
Maximum Oligo Length	120mer

HY-02 DEPROTECTION EQUIPMENT



This equipment uses mode of gas-phase ammononlysis to cut DNA from solid support. It has a built-in pressure vessel that can be filled with ammonia gas, or the liquid inside the vessel can be heated and the heating time can be controlled. This enables control of the temperature, time, and ammonia gas inside the container for the purpose of cutting DNA.

SPECIFICATION



- ① Data collection and record functions for traceability of work processes;
- 2 Operation can be monitored and controlled remotely.

HY-08 PURIFICATION AND ELUTION EQUIPMENT





HY-08 purification and elution equipment allows the quantitative transfer of different liquid, liquid are blown or aspirated through synthetic column or C18 purification columns, It also can be used to wash the crude nucleic acid sample from the solid support, it works with the positive pressure.

SPECIFICATION



Plate Base

Equip with 4 pcs working plate: the purification and elution plate/96 well deep plate/pipetting tip plate/wasted tips box.



8 reagents

8 pcs tips for each reagent, 5 kinds reagent of them divided into 8pcs tip to finish the liquid injection. 3 kinds reagent of them divided into 8pcs tips, but each tip are controlled by sole valves.



Positive working mode to discharge the liquid

The synthesis plate/purification plate are injected under positive pressure with 3 adjustable pressure.



Pipetting mode

Transfer 96 samples from a deep-well plate to purification plate at the same time by the stanadrd 200ul 96-channel pipette.



Collection Functions

It can place 96 well deep plate under purification and elution plate position to collect the samples.



Suitable plate

It's suitable for standard 96 well plate, C18, OPC plate, also compatible for synthesis plate of 192 synthesizer on the market.



User Friendly Software control system

The operator can edit, save and use the protocal according to the requirement.

HY-10 MULTI-FUNCTION WORKSTATION





Improving productivity

Optimizing measurement accuracy and consistency

Simplify workflow

Free operators from repetitive work.

SPECIFICATION

- Suitable for 96-well plates, 2ml, 5ml, 10ml, 15ml, 50ml tubes, and standard tube racks;
- There are 15 positions for whole work zone, each plates can be placed according to the customer's requirement;
- With TECAN tips, ultra-high pipetting accuracy, two types of tips: 200ul, 1000ul;
- PLC control, simple, intuitive and easy to operate, with a graphical user interface;
- Muti-functional, liquid transfer, mixing, shaking, heating capping and etc;
- With liquid level sensing function, which can sense the level of liquid in different tube.

DiTi (µ1)	Volume (µ1)	Dispense	Point accuracy (A)	Precision (CV)
10	1	Single*	€5%	≤6%
10	5	Single*	€2.5%	≤1.5%
10	10	Single*	≤1.5%	≤1%
50	5	Single*	≤5%	≤2%
50	10	Single*	≤3%	≤1%
50	50	Single*	≤2%	≤0.75%
200	10	Single*	≤5%	€2%
200	50	Single*	≤2%	≤0.75%
200	200	Single*	≤1%	≤0.75%
1000	10	Single*	€75%	≤3.5%
1000	100	Single*	≤2%	≤0.75%
1000	1000	Single*	≤1%	≤0.75%
1000	100	Multi*	≤3%	≤2%

Note: The accuracy of this parameter is measured with a professional TECAN pipette head.

HY-05 AMIDITE DISSOLVING EQUIPMENT





It is a dosing equipment that effectively prevents moisture in the atmosphere entering the amidite.



- **AVAILABLE BOTTLE**
- Amidite bottle base up to 24pcs;
- Independent valve for each tips;
- Liquid Injection accuracy ≤5%;
- The amount of bottles can be customized.
- 01 It's suitable for all kinds of amidite bottle with GL25 screw cap;
- 02 It's suitable for different type of bayonet amidite bottle;
- 03 The amidite bottle can be customized.

HY-13 VACUUM CENTRIFUGE















16*20ml

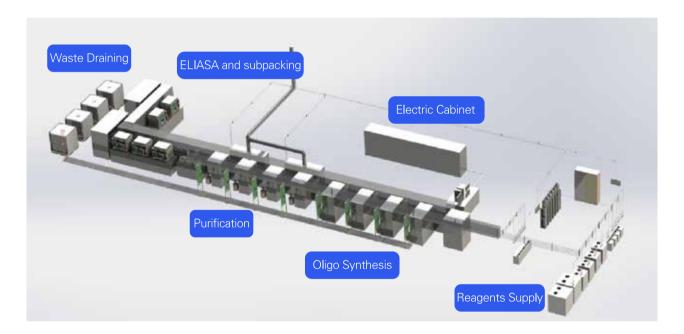
SPECIFICATION

Speed Range	300rpm~1500rpm
Max RCF	380 × g
Time Range	0~9999min
Temp Range	RT-70℃
Noise	≤ 55dB(A)
Power	400W
Size	440 × 360 × 290mm
Weight	23KG
Power	AC220V 50/60Hz 10A

- Compact size and light weight, with width 36cm, saving more space;
- High quality PTFE pipelines and chamber with Teflon coating, corrosion resistant;
- Easy to operate, One start/stop button design;
- Safe operation: Exhausted the wasted gas automatically after the working is finished;
- Temp Control: make sure working well in environ ment on RT, 30°C, 45°C or 60°C;
- Updated solenoid driving system with low voice and light vibration;
- The parts which contact the gas we adopts Teflon PTEE material with anti-corrosive function;
- Discharge the vacuum environment automatically when po.

OLIGO SYNTHESIS AUTOMATION PRODUCTION LINE

The fully automated module-realizable system, which can realize unmanned nucleic acid synthesis. Installed with multiple synthesis modules eg. automatic elution, purification, dispensing, reagents supply, waste draining and delivery modules etc. The amount of instruments per module can be customized.



CONFIGURATION

All the delivery of reagents and gas are controlled by integrated pipelines. Each reagents has its independent bottles position and in capacity of 10L~1000L according to their specifications. With liquid level sensor design for each reagent bottle, user can easily control and detect the liquid. It can deliver the 96 well plate automatically according to synthesis process to providing efficient and cost-effective ways to perform synthesis operations.



OLIGO SYNTHESIS CONSUMABLES

Picture	Name	Size	No.	Package
R R		25nmol	HY-H-806	1000pcs/pack
T.	Frit Columns	50nmol	HY-H-807	1000pcs/pack
11		100nmol	HY-H-808	1000pcs/pack
11		200nmol	HY-Z-12-200	500pcs/pack
	MM6/MM12 Columns	500nmol	HY-Z-12-500	500pcs/pack
W		1umol	HY-Z-12-1000	500pcs/pack
colle		25nmol	HY-H-814	1000pcs/pack
	Universal Columns	50nmol	HY-H-815	1000pcs/pack
MA		100nmol	HY-H-816	1000pieces/pack
11.	394 Columns	2.5cm	HY-H-817	50pcs/pack
0 99		3.5cm	HY-H-818	50pcs/pack
- 11		4.5cm	HY-H-819	50pcs/pack
		1ml	HY-H-1201	50set/pack
		3ml	HY-H-1203	50set/pack
		6ml	HY-H-1206	50set/pack
777	Empty column and Sieve plate	12ml	HY-H-1212	50set/pack
		20ml	HY-H-1220	50set/pack
		30ml	HY-H-1230	50set/pack
		60ml	HY-H-1260	50set/pack
0000M	Filter	1/8	HY-H-812	10pcs/pack
	Fillel	1/16	HY-H-824	10pcs/pack

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Picture	Name	Size	No.	Package
N	Frosted filters	1/4	HY-H-825	5pcs/pack
		500 A	HY-H-503	
15	Universal CPG	1000°A	HY-H-504	Customized
Commission and Character and C	omvorsar er a	2000 A	HY-H-505	Gastornizad
		3000°A	HY-H-506	
A		DMT-dA(Bz)-CE	HY-H-509	5g/bottle
	Phosphoramidite	DMT-Dc(Bz)-CE	HY-H-510	5g/bottle
<u>8</u> 1	Thosphoramidite	DMT-dG(iBu)-CE	HY-H-511	5g/bottle
		DMT-dT-CE	HY-H-512	5g/bottle
	Phosphoramidite Bottle Caps	GL28	HY-H-832	set/pack
	Reagent Bottle Caps	GL38	HY-H-833	set/pack
	Reagent Bottle Caps	GL45	HY-H-834	1set/pack
		2g	HY-H-913	2g/pcs
	Mologular Trans	5g	HY-H-914	5g/pcs
	Molecular Traps	10g	HY-H-915	10g/pcs
		20g	HY-H-916	20g/pcs
	Synthesis Plates	96 well plate	HY-WX-38	10pcs/pack



VOLIGO SYNTHESIS REAGENTS

Fluorescent Dyes				
No.	Name	Molecular weight	Package	Structural formula
A8001-250/1000	5'-Fluorescein CE Phosphoramid- ite (6-Fam Amidite)	843.95	250mg /1g	*****
C6023-250/1000	3'-(6-Fluorescein) CPG (C3-Fam CPG)	N/A	250mg /1g	
A8003-250/1000	5'-Hexachloro-Fluorescein CE Phosphoramidite (6-HEX Amidite)	1050.61	250mg /1g	**************************************

Cyanine Dyes				
No.	Name	Molecular weight	Package	Structural formula
C6001-250/1000	3' -Cy3-CPG	N/A	250mg /1g	Of the state of th
C6002-250/1000	3'-Cy5-CPG	N/A	250mg /1g	de la companya della
A8004-250/1000	Cy3 Amidite	983.64	250mg /1g	
A8005-250/1000	Quasar 570 Amidite (Cy3 Amidite)	903.95	250mg /1g	
A8006-250/1000	Quasar 670 Amidite (Cy5 Amidite)	940.03	250mg /1g	9t#9
A8007–250/1000	Quasar 570 Carboxylic Acid	471.65	250mg /1g	
A8008-250/1000	Quasar 570 Succinimidyl Ester	604.18	250mg /1g	ox tous
A8009-250/1000	Quasar 670 Carboxylic Acid	497.69	250mg /1g	O. J.
A8010-250/1000	Quasar 670 Succinimidyl Ester	630.22	250mg /1g	oxinters

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3'-Modifiers				
No.	Name	Molecular weight	Package	Structural formula
C6010-250/1000	2',3'-ddC-CPG	N/A	250mg /1g	MI OF N
C6011-250/1000	3' -Phosphate-CPG	N/A	250mg /1g	DMTOO-succinyl-licaa-CPG
C6012-250/1000	3'-Amino-Modifier C7 CPG	N/A	250mg /1g	FmocNH———ODMT O-succinyHcaa-CPG
C6013-250/1000	3'-Hexynyl-CPG(炔基CPG)	N/A	250mg /1g	O DMT O-SUCC-CPG
C6014-250/1000	3'-Azido-CPG(叠氮CPG)	N/A	250mg /1g	N _{2N} * _{NN} NIH O-succ-CPG
C6015-250/1000	3'-DMT-dT-CPG	N/A	250mg /1g	CPG-Leasuscery—Cook

Other Labeling Reagents				
No.	Name	Molecular weight	Package	Structural formula
A8032-250/1000	Fmoc Amino C6 dT	1121.28	250mg /1g	CATOLOGY SCHOOL
A8033-250/1000	DMT-dl Amidite	754.81	250mg /1g	DMT-0 CEL
A8034-250/1000	DMT-dT-Alkynyl Amidite	845.97	250mg /1g	
A8035-5000	Sulfurizing Reagent IV	234.33	5g	
A8036-250/1000	CFR 610 Amidite	919.91	250mg /1g	77
A8037-250/1000	CAL Fluor Red 610 Carboxylic Acid	735.7	250mg /1g	

Eclipse Labeling				
No.	Name	Molecular weight	Package	Structural formula
C6018-250/1000	3' -Eclipse-CPG	N/A	250mg /1g	O,N—CDMT O-succinyHCPG

Cholesterol Labeling				
No.	Name	Molecular weight	Package	Structural formula
A8011-250/1000	5' -Cholesteryl Amidite	586.87	250mg /1g	Ž. Cath
C6005-250/1000	3' -Cholesteryl CPG	N/A	250mg /1g	Logo Carting

5'-Modifiers				
No.	Name	Molecular weight	Package	Structural formula
A8016-250/1000	5'-Amino C6 Modifier Amidite (MMT)	589.76	250mg /1g	
A8017-250/1000	PDA-Amino-C6 Amidite	478.57	250mg /1g	0 0 0-0-100Pt), 0-0-0-100Pt)
A8018-250/1000	5' -Amino-Modifier-C6-TFA CEP	413.42	250mg /1g	TFANH O-P-N(/Pr) ₂ O-CNEt
A8019-250/1000	5' -Amino-C7-Amidite	872.04	250mg /1g	Fmoch CN
A8020-250/1000	5'-Carboxy Amidite (羧基单体)	412.54	250mg /1g	H,O OH, OH,
A8021-250/1000	5'-Aldehyde-C2 Amidite (醛基单体)	480.58	250mg /1g	0-P-N L OH,CH,CN
A8022-250/1000	5'-Acrydite Amidite (Methacrylate C6 Amidite)	385.48	250mg /1g	O-P-N(Pr) ₂
A8023-250/1000	5'-Phosphate-Amidite	656.77	250mg /1g	DMTQ O-P-N(/Pr) ₂ O-CNEt
A8024-250/1000	5'-Butyne Amidite (炔基单体)	270.31	250mg /1g	ON ON

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Dabcyl Labeling				
No.	Name	Molecular weight	Package	Structural formula
C6006-250/1000	3'-Dabcyl CPG (DABCYL-C3-CPG)	N/A	250mg /1g	0 0°0-8xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Spacer Modifiers				
No.	Name	Molecular weight	Package	Structural formula
A8025-250/1000	C3 Spacer Amidite	578.69	250mg /1g	DMTO O-P-N(/Pr) ₂ O-CNEt
A8026-250/1000	C6 Spacer Amidite	620.75	250mg /1g	DMT-0 OCE
A8027-250/1000	C12 Spacer Amidite	704.93	250mg /1g	DMTQ O-P-N(/Pr) ₂ O-CNEt
A8028-250/1000	Spacer 9 Amidite	652.76	250mg /1g	DMTQ O—P = N(/Pr) ₂ O = CNEt
A8029-250/1000	Spacer 12 Amidite	696.82	250mg /1g	DMT-0~~0~~0~N
A8030-250/1000	Spacer 18 Amidite	784.93	250mg /1g	DMTQ O O O O O O O O O O O O O O O O O O O
A8031–250/1000	dSpacer Amidite	620.73	250mg /1g	DMTO-O-D-NiPr) ₂ O-CNEI
C6016-250/1000	3' -Spacer C3 CPG	N/A	250mg /1g	DMTO O-succinyl-lcaa-CPG
C6017-250/1000	3' —idSpacer CPG	N/A	250mg /1g	DMTO O-succinyHicae-CPG

Biotin Labeling				
No.	Name	Molecular weight	Package	Structural formula
C6003-250/1000	3'-Biotin CPG	N/A	250mg /1g	**************************************
C6004-250/1000	5'-Biotin Amidite	846.08	250mg /1g	DMT OH OF THE OH

RNA Amidite

No.	Name	Molecular weight	Package	Structural formula
A7001-1/5	2' -O-TBDMS-rA Amidite	N/A	1g/5g	DMTQ PANO
A7002-1/5	2' -O-TBDMS-rG Amidite	N/A	1g/5g	DATO PAND O
A7003-1/5	2' -O-TBDMS-rC Amidite	N/A	1g/5g	0472
A7004-1/5	2' -O-TBDMS-rU Amidite	N/A	1g/5g	DATO DATA
A7005–5	2' -F-dA Amidite	N/A	5g	DMTC PAMO F
A7006–5	2' -F-dG Amidite	N/A	5g	DMTQ PAMO F
A7007-5	2' -F-dC Amidite	N/A	5g	DATT PAND
A7008–5	2' -F-dU Amidite	N/A	5g	DMTC PAMO F
A7009–5	2' -OMe-rA Amidite	N/A	5g	DMTQ PAND OMe
A7010-5	2' -OMe-rG Amidite	N/A	5g	DMTQ NH O
A7011-5	2' -OMe-rC Amidite	N/A	5g	DMT DAMD OME
A7012-5	2' -OMe-rU Amidite	N/A	5g	DMTC OMe
A7013-5	2' -O-MOE-rA Amidite	N/A	5g	DATTO PRINCE PRI
A7014-5	2' -O-MOE-rG Amidite	N/A	5g	DMTQ PAND O
A7015–5	2' -O-MOE-rC Amidite	N/A	5g	DMTC PAME
A7016–5	2' -O-MOE-rU Amidite	N/A	5g	DMTQ DAMA

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