

Molecular Biology Products

Your one-stop wet lab for biology!

- PCR Reagents
- Rapid DNA Purification Kits
- Rapid Genomic DNA Preparation and Multiplex PCR Kits
- High-Stability PCR Kit
- DNA Markers
- All-In-One Precast Agarose Gel Electrophoresis Kit
- TrioMol Isolation Reagent
- DNA/RNA Modifying Enzymes
- Human Genomic DNA
- Vectors & Primers



PCR Reagents

Taq DNA polymerase: GenScript best selling polymerase

RealStart Taq DNA Polymerase: For highly specific PCR, eliminating non-specific amplification

Master PCR premix: For quick assembly of PCR

dNTP and Bulk dNTP and Nucleotides: With purity level above 98%

Cat. No.	Product Name	Size	Price
E00007	Taq DNA Polymerase	1,000 U	\$60.00
E00012	Taq DNA Polymerase, concentrated	2,500 U	\$149.00
E00041	RealStart Taq DNA Polymerase	100 U	\$39.00
E00019	2X Taq Master Mix	100 rxns	\$43.00
E00025	5X Taq Blue Master Mix	100 rxns	\$45.00
E00035	PCR Enzyme 2X Premix for TissueDirect	100 rxns	\$113.00
B0005	10X Taq Buffer	1.5 ml	\$10.00
D0056	dNTP mixture, 10 mM each	0.5 ml	\$25.24
		1 ml	\$ 45.00
		10 ml	\$ 360.00
C01577	dATP (100 mM) >98% HPLC	50 ml	\$ 1,600.00
		250 ml	\$ 7,500.00
		1 ml	\$ 45.00
		10 ml	\$ 360.00
C01578	dGTP (100 mM) >98% HPLC	50 ml	\$ 1,600.00
		250 ml	\$ 7,500.00
		1 ml	\$ 45.00
		10 ml	\$ 360.00
C01579	dCTP (100 mM) >98% HPLC	50 ml	\$ 1,600.00
		250 ml	\$ 7,500.00
		1 ml	\$ 45.00
		10 ml	\$ 360.00
C01580	dTTP (100 mM) >98% HPLC	50 ml	\$ 1,600.00
		250 ml	\$ 7,500.00
		1 ml	\$ 45.00
		10 ml	\$ 360.00
C01581	dNTP (25 mM each) >98% HPLC	50 ml	\$ 1,600.00
		250 ml	\$ 7,500.00
		1 ml	\$ 45.00
		10 ml	\$ 154.00
C01582	dNTP (10 mM each) >98% HPLC	50 ml	\$ 720.00
		250 ml	\$ 2,500.00

Rapid DNA Purification Kits

GenScript's QuickClean DNA Purification Kits can purify DNA in 5-10 min.

Cat. No.	Description	Application	Size	Price
L00193	QuickClean 5M Miniprep Kit	DNA preparation from bacteria	250 preps	\$145.00
L00198	QuickClean 5M PCR Purification Kit	DNA purification from PCR and DNA cleanup from enzymatic reactions	250 preps	\$145.00
L00199	QuickClean 5M Gel Extraction Kit	DNA extraction and purification from agarose gels	250 preps	\$145.00
L00237	QuickClean 96-Well Plasmid Miniprep Kit	Plasmid DNA purification in 96-well plate	384 preps	\$488.00
L00238	QuickClean 96-Well PCR Purification Kit	DNA purification from PCR in 96-well plate	384 preps	\$295.00

Rapid Genomic DNA Preparation and Multiplex PCR Kits

GenScript Rapid Genomic DNA Preparation and Multiplex PCR Kits can extract DNA from almost any sample in just 12 minutes. The DNA is immediately ready for multiplex PCR. Separate kits are available for animal tissue, plant tissue, blood, cell cultures, and bacterial colonies.

Cat. No.	Description	Application	Size	Price
L00194	TissueDirect™ (without enzyme)	Fresh, frozen, or paraffin animal tissues, mouse tails, microdissections, buccal cells,	100 Preps	\$113.00
L00195	TissueDirect™ (with enzyme)	hair cells, hair shafts, saliva, sperm, and raw cells	100 Preps	\$159.00
L00196	BloodReady™ (without enzyme)	Blood samples	100 Preps	\$111.00
L00197	BloodReady™ (with enzyme)		100 Preps	\$157.00
L00200	PlantDirect™(without enzyme)	Fresh plant tissues such as leaves, stems, flowers, seeds, cultured plant cells, and frozen ground tissues	100 Preps	\$139.00
L00201	PlantDirect™ (with enzyme)		100 Preps	\$159.00
L00202	BacReady™ (without enzyme)	Gram-positive and gram-negative bacteria	100 Preps	\$111.00
L00203	BacReady™ (with enzyme)		100 Preps	\$157.00

High-Stability PCR Kit

GenScript High-Stable PCR Kit contains stabilized *Taq* DNA polymerase, 10X reaction buffer, and 10 mM dNTP, all specially formulated for increased stability using our proprietary technology. The kit can be stored at 4°C for over six months or at room temperature (25°C) for one month without significant loss of activity. The stabilizers in the buffers also increase the stability of *Taq* DNA polymerase at higher temperature (72°C), increasing the DNA yield of PCR amplifications of long DNA. This kit facilitates quick and easy PCR setup without any need for thawing. This kit can also be used in high-throughput assays in which all the PCR reagents need to be ready and stable for PCR setup at any time.

Cat. No.	Product Name	Size	Price
L00342	High-Stability PCR Kit	1 kit	\$64.00

Related Products:

Cat. No.	Product Name	Size	Price
E00043	Stabilized <i>Taq</i> DNA Polymerase	500 U	\$49.00
C01689	High-Stable dNTP Mix, 10 mM each	0.5 ml	\$29.00

DNA Markers

Cat. No.	Product Name	Size	Price
M101O	DNA KB Ladder - original format	100 loading	\$25.00
		500 loading	\$85.00
M101R	DNA KB Ladder - ready-to-use™	100 loading	\$30.00
		500 loading	\$95.00
M102O	100 bp DNA Ladder - original format	100 loading	\$44.00
		500 loading	\$170.00
M102R	100 bp DNA Ladder, ready-to-use™	100 loading	\$50.00
		500 loading	\$180.00
M103O	DNA Logical Ladder - original format	100 loading	\$70.00
		500 loading	\$300.00
M103R	DNA Logical Ladder - ready-to-use™	100 loading	\$75.00
		500 loading	\$320.00
M106O	PCR DNA Ladder - original format	100 loading	\$25.00
		500 loading	\$85.00
M106R	PCR DNA Ladder - ready-to-use™	100 loading	\$30.00
		500 loading	\$95.00
MM1212	Lambda DNA/ <i>Hind</i> III Marker - ready-to-use™	100 loading	\$20.00
		500 loading	\$65.00
MM1302	Lambda DNA/ <i>EcoR</i> I+ <i>Hind</i> III Marker	100 loading	\$20.00

All-In-One Precast Agarose Gel Electrophoresis Kits

- EB free
- Ready-to-Run
- With loading buffer and dye
- With prestained DNA marker

Cat. No.	Product Name	Size	Price
L00333	All-In-One Precast 0.8% Agarose Gel Electrophoresis Kit	1 kit	\$39.60
L00334	All-In-One Precast 1.2% Agarose Gel Electrophoresis Kit	1 kit	\$39.60
L00335	All-In-One Precast 2.0% Agarose Gel Electrophoresis Kit	1 kit	\$39.60

Accessories

Cat. No.	Product Name	Size	Price
D0084	Agarose Gel Loading Dye Mixture 6X (with ficoll)	5 ml	\$48.00
D0109	Agarose Gel Loading Dye Mixture 6X	5 ml	\$48.00

TrioMol Isolation Reagent

TrioMol Isolation Reagent is a monophasic solution of phenol and guanidine thiocyanate for RNA, DNA, and protein isolation in one single-step liquid-phase separation.

Cat. No.	Product Name	Size	Price
M00105	TrioMol Isolation Reagent	100 ml	\$89.00

DNA/RNA Modifying Enzymes

Cat. No.	Product Name	Size	Price
E00011	Uracil DNA Glycosylase	2,000 U	\$145.00
E00022	2X Ligation Premix	50 rxns	\$96.00
Z02042	T4 Gene 32 Protein	100 µg	\$39.00
Z02032	M-MLV Reverse Transcriptase	10,000 U	\$39.00
Z02040	M-MLV Reverse Transcriptase (RNase H-)	10,000 U	\$59.00
Z02038	Hercules Endonuclease	25,000 U	\$130.00
Z02041	Ribonuclease Inhibitor	2,000 U	\$43.00
Z02004	RNase A, bovine	0.25 g	\$99.08

Human Genomic DNA

GenScript's Human Genomic DNA is from HEK 293 cells. More than 90% of this DNA is over 50 kb in size as analyzed by gel electrophoresis. The DNA is supplied at 120 ng/μl in 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

Cat. No.	Product Name	Size	Price
M00094	Human Genomic DNA	100 μg	\$79.00

Vectors and Primers

siRNA Expression Vectors

GenScript offers comprehensive siRNA expression vectors, including plasmidic, viral, and TetO1 inducible vectors with different promoters and selection markers that can be used for stable cell line establishment.

1. Plasmidic siRNA Expression Vectors

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1201	pRNA-U6.1/Neo	U6	Neomycin	-	10 μg	\$225.00
SD1202	pRNA-U6.1/Hygro	U6	Hygromycin	-	10 μg	\$225.00
SD1207	pRNA-U6.1/Zeo	U6	Zeomycin	-	10 μg	\$225.00
SD1203	pRNA-H1.1/Neo	H1	Neomycin	-	10 μg	\$225.00
SD1204	pRNA-H1.1/Hygro	H1	Hygromycin	-	10 μg	\$225.00
SD1208	pRNA-H1.1/Zeo	H1	Zeomycin	-	10 μg	\$225.00
SD1231	pRNA-CMV3.1/Neo	CMV3	Neomycin	-	10 μg	\$225.00
SD1232	pRNA-CMV3.1/Hygro	CMV3	Hygromycin	-	10 μg	\$225.00
SD1233	pRNA-CMV3.1/Puro	CMV3	Puromycin	-	10 μg	\$225.00
SD1211	pRNAT-U6.1/Neo	U6	Neomycin	cGFP	10 μg	\$350.00
SD1212	pRNAT-U6.1/Hygro	U6	Hygromycin	cGFP	10 μg	\$350.00
SD1213	pRNAT-H1.1/Neo	H1	Neomycin	cGFP	10 μg	\$350.00
SD1214	pRNAT-H1.1/Hygro	H1	Hygromycin	cGFP	10 μg	\$350.00
SD1261	pRNAT-CMV3.1/Neo	CMV3	Neomycin	cGFP	10 μg	\$350.00
SD1262	pRNAT-CMV3.1/Hygro	CMV3	Hygromycin	cGFP	10 μg	\$350.00
SD1263	pRNAT-CMV3.1/Puro	CMV3	Puromycin	cGFP	10 μg	\$350.00
SD1264	pRNAT-CMV3.2/Neo	CMV3	Neomycin	cGFP	10 μg	\$350.00
SD1265	pRNAT-CMV3.2/Hygro	CMV3	Hygromycin	cGFP	10 μg	\$350.00
SD1266	pRNAT-CMV3.2/Puro	CMV3	Puromycin	cGFP	10 μg	\$350.00
SD1550	pRNA-U6.3/Neo	U6 (enhanced)	Neomycin	-	10 μg	\$225.00
SD1552	pRNA-H1.3/Neo	H1 (enhanced)	Neomycin	-	10 μg	\$225.00
SD1561	pRNAT-U6.3/Hygro	U6 (enhanced)	Hygromycin	cGFP	10 μg	\$350.00
SD1563	pRNAT-H1.3/Hygro	H1 (enhanced)	Hygromycin	cGFP	10 μg	\$350.00

2. Inducible siRNA Expression Vectors

GenScript's inducible siRNA expression vectors use engineered H1.2 promoter containing a tetracycline operator (TetO1), available in plasmidic and adenoviral, retroviral, and lentiviral formats.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1223	pRNATin-H1.2/Neo	H1 (Inducible)	Neomycin	cGFP	10 µg	\$350.00
SD1224	pRNATin-H1.2/Hygro	H1 (Inducible)	Hygromycin	cGFP	10 µg	\$350.00
SD1220	pRNAin-H1.2/Neo	H1 (Inducible)	Neomycin	-	10 µg	\$350.00
SD1229	pRNATin-H1.2/Adeno	H1 (Inducible)	Kanamycin	cGFP	10 µg	\$350.00
SD1234	pRNAin-H1.2/Shuttle	H1 (Inducible)	Neomycin	-	10 µg	\$350.00
SD1254	pRNATin-H1.4/Retro	H1 (Inducible)	Hygromycin	cGFP	10 µg	\$350.00
SD1260	pRNATin-H1.4/Lenti	H1 (inducible)	Neomycin	cGFP	10 µg	\$350.00

3. Viral siRNA Expression Vectors

• Adenoviral siRNA Shuttle Vectors

GenScript's adenoviral shuttle vectors are compatible with the Clontech Adeno-X Expression system.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1205	pRNA-U6.1/Shuttle	U6	Neomycin	-	10 µg	\$225.00
SD1206	pRNA-H1.1/Shuttle	H1	Neomycin	-	10 µg	\$225.00
SD1216	pRNAT-H1.1/Shuttle	H1	Neomycin	cGFP	10 µg	\$350.00
SD1234	pRNAin-H1.2/Shuttle	H1 (inducible)	Neomycin	-	10 µg	\$350.00

• Adenoviral siRNA Vectors

GenScript's adenoviral vectors are compatible with the Stratagene AdEasy Adenoviral Vector System.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1209	pRNA-H1.1/Adeno	H1	Kanamycin	-	10 µg	\$225.00
SD1219	pRNAT-H1.1/Adeno	H1	Kanamycin	cGFP	10 µg	\$350.00
SD1229	pRNATin-H1.2/Adeno	H1 (inducible)	Kanamycin	cGFP	10 µg	\$350.00

• Lentiviral siRNA Expression Vectors

GenScript's Lentiviral siRNA expression vectors are compatible with the Invitrogen ViraPower™ Lentiviral Expression System.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1259	pRNAT-U6.2/Lenti	U6	Neomycin	cGFP	10 µg	\$350.00
SD1260	pRNATin-H1.4/Lenti	H1 (inducible)	Neomycin	cGFP	10 µg	\$350.00

- Retroviral siRNA Expression Vectors

GenScript's Retroviral siRNA expression vectors are compatible with the Clontech Retro-X Expression System.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1241	pRNA-H1.1/Retro	H1	Hygromycin	-	10 µg	\$225.00
SD1253	pRNAT-H1.4/Retro	H1	Hygromycin	cGFP	10 µg	\$350.00
SD1254	pRNATin-H1.4/Retro	H1 (inducible)	Hygromycin	cGFP	10 µg	\$350.00

siRNA Controls

1. siRNA Positive Controls

- FireFly Luciferase siRNA Control Constructs (siFLuc)

siFLuc controls are siRNA constructs designed to knock down firefly luciferase.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1501	pRNA-U6.1/Neo/siFLuc	U6	Neomycin	-	10 µg	\$225.00
SD1502	pRNA-U6.1/Hygro/siFLuc	U6	Hygromycin	-	10 µg	\$225.00
SD1503	pRNA-H1.1/Neo/siFLuc	H1	Neomycin	-	10 µg	\$225.00
SD1504	pRNA-H1.1/Hygro/siFLuc	H1	Hygromycin	-	10 µg	\$225.00
SD1531	pRNA-CMV3.1/Neo/siFLuc	CMV3	Neomycin	-	10 µg	\$225.00
SD1532	pRNA-CMV3.1/Hygro/siFLuc	CMV3	Hygromycin	-	10 µg	\$225.00
SD1512	pRNAT-U6.1/Hygro/siFLuc	U6	Hygromycin	cGFP	10 µg	\$225.00
SD1551	pRNA-U6.3/Neo/siFLuc	U6 (enhanced)	Neomycin	-	10 µg	\$225.00
SD1553	pRNA-H1.3/Neo/siFLuc	H1 (enhanced)	Neomycin	-	10 µg	\$225.00
SD1565	pRNAT-U6.3/Hygro/siFLuc	U6 (enhanced)	Hygromycin	cGFP	10 µg	\$350.00
SD1566	pRNAT-H1.3/Hygro/siFLuc	H1 (enhanced)	Hygromycin	cGFP	10 µg	\$350.00
SD1523	pRNATin-H1.2/Neo/siFLuc	H1 (inducible)	Neomycin	cGFP	10 µg	\$225.00
SD0226	pRNA-Luc/Neo	CMV3	Neomycin	-	10 µg	\$350.00

- Renilla Luciferase siRNA Constructs: (siRLuc)

siRLuc controls are siRNA constructs designed to knock down Renilla luciferase activity.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1601	pRNA-U6.1/Neo/siRLuc	U6	Neomycin	-	10 µg	\$225.00
SD1602	pRNA-U6.1/Hygro/siRLuc	U6	Hygromycin	-	10 µg	\$225.00
SD1603	pRNA-H1.1/Neo/siRLuc	H1	Neomycin	-	10 µg	\$225.00
SD1604	pRNA-H1.1/Hygro/siRLuc	H1	Hygromycin	-	10 µg	\$225.00

- cGFP (Coral Green Fluorescence Protein) siRNA constructs: (si-cGFP)

si-cGFP controls are siRNA constructs designed to knock down cGFP (coral GFP) expression.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1701	pRNA-U6.1/Neo/sicGFP	U6	Neomycin	-	10 µg	\$225.00
SD1702	pRNA-H1.1/Neo/sicGFP	H1	Neomycin	-	10 µg	\$225.00

2. siRNA Negative Controls

GenScript provides online siRNA Sequence Scrambler software for siRNA negative control sequence design. GenScript also provides a general-purpose negative control, whose sense sequence is 21-mer in length with GC content of 48%, and shows no homology to any human, mouse, or rat mRNA sequence in the NCBI RefSeq database.

Cat. No.	Vector Name	Promoter	Resistance	Marker	Size	Price
SD1801	pRNA-U6.1/Neo/CTL	U6	Neomycin	-	10 µg	\$225.00
SD1802	pRNA-H1.1/Neo/CTL	H1	Neomycin	-	10 µg	\$225.00
SD1831	pRNA-CMV3.1/Neo/CTL	CMV3	Neomycin	-	10 µg	\$225.00

Note: Empty vectors may not make good negative controls because they do not have proper termination signals downstream of their promoters.

Cloning and Expression Vectors

Cat. No.	Vector Name	Size	Price
MD1121	Lambda DNA	100 µg	\$50.00
SD0121	pGS-21a	10 µg	\$140.00
SD0122	pGen2.1	10 µg	\$285.00
SD1162	PUC18 plasmid DNA	50 µg	\$50.00
SD1176	PUC57 plasmid DNA	50 µg	\$50.00

Vector Primers

GenScript's vector primers are HPLC-purified and sequence-tested. Each vial contains 500 pmol of lyophilized oligonucleotide.

Cat. No.	Product Name	Primer Sequence	Amount	Price
DA0001	pUC57 Forward	GTAAAACGACGGCCAGTG	500 pmol	\$30.00
DA0002	pUC57 Reverse	GGAAACAGCTATGACCATG	500 pmol	\$30.00
DA0003	M13 Forward (-20)	GTAAAACGACGGCCAGTG	500 pmol	\$30.00
DA0004	M13 Forward (-41)	GGTTTTCCCAGTCACGAC	500 pmol	\$30.00
DA0005	M13 Reverse (-27)	GGAAACAGCTATGACCATG	500 pmol	\$30.00
DA0006	M13 Reverse (-48)	AGCGGATAACAATTCACAC	500 pmol	\$30.00
DA0007	BGH Reverse	TAGAAGGCACAGTCGAGG	500 pmol	\$30.00
DA0008	SP6	TACGATTTAGGTGACACTATAG	500 pmol	\$30.00
DA0009	T7	TAATACGACTCACTATAGGG	500 pmol	\$30.00
DA0010	T7 Terminator	GCTAGTTATTGCTCAGCGG	500 pmol	\$30.00
DA0011	pRNA-U6 Forward	TACGATACAAGGCTGTTAGAGAG	500 pmol	\$30.00
DA0012	pRNA Reverse	TAGAAGGCACAGTCGAGG	500 pmol	\$30.00
DA0013	pRNA-H1 Forward	TAATACGACTCACTATAGGG	500 pmol	\$30.00
DA0014	pShuttle-H1.1 Reverse	CAAACTACATAAGACCCCCAC	500 pmol	\$30.00
DA0015	pAdTrack-H1.1 Forward	ATGGGAACATACGTCATTATTGAC	500 pmol	\$30.00
DA0016	pAdTrack-H1.1 Reverse	TGCGCGTTGTCAAATATGAGCTCA	500 pmol	\$30.00
DA0018	T3 promoter	ATTAACCCTCACTAAAGGGA	500 pmol	\$30.00
DA0019	pET 5' (T7)	TAATACGACTCACTATAGG	500 pmol	\$30.00
DA0020	pET 3'	CTAGTTATTGCTCAGCGG	500 pmol	\$30.00
DA0021	pGEX 5'	GGGCTGGCAAGCCACGTTTGGTG	500 pmol	\$30.00
DA0022	pGEX 3'	CCGGGAGCTGCATGTGTCAGAGG	500 pmol	\$30.00
DA0023	pRNA-CMV Forward	GTACGGTGGGAGGTCTATAT	500 pmol	\$30.00
DA0024	pRNA-H1.3 Forward	GACGTCAATGGGAGTTTGT	500 pmol	\$30.00
DA0025	SD1241 Forward	TGTAGGTTTGGCAAGCTAGC	500 pmol	\$30.00
DA0026	SD1255 Forward	CCAACCTGTTTATTGCAGCT	500 pmol	\$30.00
DA0027	SD1258 Forward	GGGAAATCACCATAAACGTG	500 pmol	\$30.00
DA0028	SD1258 Reverse	TGGGCTATGAACTAATGACCC	500 pmol	\$30.00
DA0029	SD0122 Reverse	CTAGTCAGACAAAATGATGC	500 pmol	\$30.00
DA0030	SD0123 Forward	ATTATTCATACCGTCCCACCA	500 pmol	\$30.00
DA0031	SD0123 Reverse	ACCTCTACAAATGTGGTATGG	500 pmol	\$30.00
DA0032	SD1563 Forward	CTGGGAAATCACCATAAACG	500 pmol	\$30.00



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