限制酶特性表

酶切序列 / Buffer 活性 / 反应条件

LightNing® 快切系列
常规限制酶 • GMP Grade

01 LightNing® 快切系列 AatII - NsiI

特性	名称	货号	酶切序列	随酶提供 Buffer	在不同 Buffer 中的活性				反应温度 (°C)	热失活温度 (°C)	甲基化敏感性	保护碱基 (bp)
					百时美 CutOne® Buffer	Thermo FastDigest Buffer	NEB rCutSmart™ Buffer	Takara QuickCut™ Buffer				
⚡	**AatII**	EG25511S	GACGT/C	CutOne®	100	< 25	100	< 25	37	65	CpG	ND
⚡	**AccI**	EG15502S	GT/MKAC	CutOne®	100	< 10	100	< 10	37	80	CpG	13
⚡	**Acc65I**	EG26508S	G/GTACC	CutOne®	100	100	100	100	37	65	Dam CpG	ND
EPI ⚡	**AciI**	EG25501V/S	C/CGC	CutOne®	100	100	100	100	37	80	CpG	5
⚡	**AfeI**	EG26501V/S	AGC/GCT	CutOne®	100	75	100	100	37	65	CpG	ND
⚡	**AflII**	EG24520S	C/TTAAG	CutOne®	100	75	100	100	37	65		ND
⚡	**AgeI**	EG23501S	A/CCGGT	CutOne®	100	50	100	50	37	65	CpG	1
⚡	**ApaI**	EG25502S	GGGCC/C	CutOne®	100	<12.5	100	<12.5	37	65	Dam CpG	1
⚡	**ApaLI**	EG15601S	G/TGCAC	CutOne®	100	75	100	100	37	80	CpG EK	ND
⚡	**AluI**	EG24509S	AG/CT	CutOne®	100	100	100	100	37	80	EB	2
⚡	**AscI**	EG15508S	GG/CGCGCC	CutOne®	100	100	100	100	37	65	CpG	0
⚡	**AseI**	EG25503S	AT/TAAT	CutOne®	100	100	100	100	37	65	EB	ND
⚡	**AvaI**	EG26503S	C/YCGRG	CutOne®	100	100	100	100	37	65	CpG	ND
⚡	**AvaII**	EG25509S	G/GWCC	CutOne®	100	100	100	100	37	65	Dam CpG	ND
⚡	**AvrII**	EG15509S	C/CTAGG	CutOne®	100	100	100	100	37	80		3
⚡	**BamHI**	EG15510S	G/GATCC	CutOne®	100	100	100	100	37	80		3
⚡	**BbsI**	EG24512S	GAAGAC(2/6)	CutOne®	100	≤10	100	25	37	65		1
⚡	**BclI**	EG15513S	T/GATCA	CutOne®	100	100	100	100	37	85	Dam EB	3
⚡	**BglI**	EG24507S	GCCNNNN/NGGC	CutOne®	100	100	100	100	37	65	CpG	ND
⚡	**BglII**	EG15591S	A/GATCT	CutOne®	100	100	100	50	37	No	EB	2
⚡	**BsaI**	EG15518S	GGTCTC(1/5)	CutOne®	100	100	100	100	37	80	CpG Dam	1
EPI ⚡	**Bsh1236I (BstUI)**	EG25515S	CG/CG	CutOne®	100	100	100	100	37	80	CpG	ND
⚡	**BsmBI v2**	EG26504V/S	CGTCTC(1/5)	CutOne®	100	75	100	100	37	80	CpG EB	ND
⚡	**BsmI**	EG25507S	GAATGC(1/-1)	CutOne®	100	100	100	100	37	80	EB	ND
⚡	**BspHI**	EG25512S	T/CATGA	CutOne®	100	100	100	100	37	65	Dam EB	ND
⚡	**BsrGI**	EG23505S	T/GTACA	CutOne®	100	100	100	100	37	85		1
⚡	**BstBI**	EG15607S	TT/CGAA	CutOne®	100	100	100	100	37	80	CpG EK	ND
⚡	**BstEII**	EG15528S	G/GTNACC	CutOne®	100	75	100	75	37	No	EB EK	ND
⚡	**Bsu36I**	EG26502S	CC/TNAGG	CutOne®	100	100	100	100	37	80		ND
⚡	**Cfr42I (SacII)**	EG25508S	CCGC/GG	CutOne®	100	<12.5	100	<12.5	37	65	CpG	ND
⚡	**ClaI**	EG15532S	AT/CGAT	CutOne®	100	100	100	100	37	80	Dam CpG EB	4
⚡	**DdeI**	EG24501S	C/TNAG	CutOne®	100	50	100	50	37	65	EB	1
⚡ EPI	**DpnI**	EG15585S	GA^{m6}/TC	CutOne®	100	100	100	100	37	65	CpG EB	2
⚡ EPI	**DpnII**	EG15533S	/GATC	CutOne®	100	75	100	75	37	65	Dam EB	ND
⚡	**DraI**	EG23502S	TTT/AAA	CutOne®	100	100	100	100	37	65	EK	ND
⚡	**DraIII**	EG24508S	CACNNN/GTG	CutOne®	100	100	100	100	37	No	CpG EB EK	1
⚡	**EagI**	EG15535S	C/GGCCG	CutOne®	100	100	100	100	37	65	CpG	2
⚡	**EarI**	EG23511S	CTCTTC(1/4)	CutOne®	100	12.5	100	25	37	80	CpG	ND
⚡	**EcoRI**	EG15536S	G/AATTC	CutOne®	100	100	100	100	37	65	CpG EB	5
⚡	**EcoRV**	EG15537S	GAT/ATC	CutOne®	100	100	100	100	37	80	CpG EB	5
⚡	**Esp3I (BsmBI)**	EG21503S	CGTCTC(1/5)	CutOne®	100	100	100	100	37	65	CpG	1
⚡	**FokI**	EG24523S	GGATG(9/13)	CutOne®	100	50	100	50	37	65	Dam CpG EB	ND
⚡	**FspI**	EG15586S	TGC/GCA	CutOne®	100	100	100	100	37	80	CpG	ND
⚡	**HaeIII**	EG23509S	GG/CC	CutOne®	100	100	100	100	37	80		ND
⚡ EPI	**HhaI**	EG24510S	GCG/C	CutOne®	100	100	100	100	37	80	CpG	ND
⚡	**HindIII**	EG15539S	A/AGCTT	CutOne®	100	75	100	100	37	80	EB	3
⚡	**HinfI**	EG15593S	G/ANTC	CutOne®	100	100	100	100	37	80	CpG EB	ND
⚡ EPI	**HinP1I**	EG24511S	G/CGC	CutOne®	100	75	100	75	37	80	CpG	ND
⚡	**HpaI**	EG15541S	GTT/AAC	CutOne®	100	100	100	50	37	80	CpG EK	1
⚡ EPI	**HpaII**	EG23507S	C/CGG	CutOne®	100	< 25	100	< 25	37	80	CpG	ND
⚡	**KasI**	EG15543S	G/GCGCC	CutOne®	100	100	100	100	37	80	CpG	1
⚡	**KpnI**	EG15544S	GGTAC/C	CutOne®	100	100	100	100	37	80		2
⚡	**MboI**	EG24522S	/GATC	CutOne®	100	100	100	100	37	65	Dam CpG EB	ND
⚡	**MluI**	EG15547S	A/CGCGT	CutOne®	100	75	100	100	37	80	CpG EK EB	3
⚡	**MnlI**	EG15548S	CCTC(7/6)	CutOne®	100	100	100	100	37	65	EB	ND
⚡	**MscI**	EG25505S	TGG/CCA	CutOne®	100	100	100	100	37	65	Dam	ND
⚡	**MseI**	EG24518S	T/TAA	CutOne®	100	25	100	25	37	80	EK	1
⚡ EPI	**MspI**	EG23508S	C/CGG	CutOne®	100	25	100	25	37	85		ND
⚡	**MunI (MfeI)**	EG23510S	C/AATTG	CutOne®	100	12.5	100	12.5	37	80		3
⚡	**NcoI**	EG15550S	C/CATGG	CutOne®	100	100	100	100	37	80		3
⚡	**NdeI**	EG15551S	CA/TATG	CutOne®	100	100	100	100	37	80		3
⚡	**NheI**	EG15552S	G/CTAGC	CutOne®	100	100	100	100	37	80	CpG	3
⚡	**NotI**	EG15553S	GC/GGCCGC	CutOne®	100	100	100	100	37	80	CpG	4
⚡	**NruI**	EG16602S	TCG/CGA	CutOne®	100	100	100	100	37	80	CpG Dam	ND
⚡	**NsiI**	EG15606S	ATGCA/T	CutOne®	100	100	100	100	37	80	EB	3

LightNing® 系列名称在表内省略统一前缀，完整名称为 LightNing®+ 酶名称

ND=Not Determined(未测定)

01 LightNing® 快切系列 PacI - XhoI

特性	名称	货号	酶切序列	随酶提供 Buffer	在不同 Buffer 中的活性				反应温度 (°C)	热失活温度 (°C)	甲基化敏感性	保护碱基 (bp)
					百时美 CutOne® Buffer	Thermo FastDigest Buffer	NEB rCutSmart™ Buffer	Takara QuickCut™ Buffer				
⚡	**PacI**	EG15603S	TTAAT/TAA	CutOne®	100	100	100	100	37	65		1
⚡	**PmeI**	EG23506S	GTTT/AAAC	CutOne®	100	50	100	50	37	85	CpG	1
⚡	**PmlI**	EG25510S	CAC/GTG	CutOne®	100	<12.5	100	<12.5	37	80	CpG EK EB	ND
⚡	**PpuMI**	EG26506S	RG/GWCCY	CutOne®	100	75	100	100	37	80	Dam	ND
⚡	**PspGI (EcoRII)**	EG15560S	/CCWGG	CutOne®	100	100	100	50	75	No	Dam	ND
⚡	**PstI**	EG15561S	CTGCA/G	CutOne®	100	100	100	100	37	85		2
⚡	**PvuI**	EG23513S	CGAT/CG	CutOne®	100	100	100	100	37	65	CpG	1
⚡	**PvuII**	EG15604S	CAG/CTG	CutOne®	100	100	100	100	37	No	EB	4
⚡	**RsaI**	EG24503S	GT/AC	CutOne®	100	25	100	25	37	No	CpG	2
⚡	**SacI**	EG15565S	GAGCT/C	CutOne®	100	100	100	100	37	80		3
⚡	**SacII**	EG15605S	CCGC/GG	CutOne®	100	100	100	100	37	80	CpG	1
⚡	**SalI**	EG15566S	G/TCGAC	CutOne®	100	100	100	100	37	65	CpG	3
⚡	**SapI**	EG25524S	GCTCTTC(1/4)	CutOne®	100	25	100	25	37	65	EB	1
⚡	**SbfI**	EG15568S	CCTGCA/GG	CutOne®	100	100	100	100	37	80		2
⚡	**ScaI**	EG24502S	AGT/ACT	CutOne®	100	100	100	100	37	80	EB	2
⚡	**SdaI (SbfI)**	EG24515S	CCTGCA/GG	CutOne®	100	< 12.5	100	12.5	37	65		ND
⚡	**SfiI**	EG15570S	GGCCNNNN/NGGCC	CutOne®	100	100	100	100	50	80	CpG Dam	1
⚡	**SmaI**	EG15572S	CCC/GGG	CutOne®	100	100	100	100	25	80	CpG	1
⚡	**SnaBI**	EG24521S	TAC/GTA	CutOne®	100	50	100	50	37	65	CpG	ND
⚡	**SpeI**	EG15574S	A/CTAGT	CutOne®	100	100	100	100	37	65	EB EK	2
⚡	**SphI**	EG15575S	GCATG/C	CutOne®	100	100	100	100	37	65	EB	1
⚡	**SspI**	EG15576S	AAT/ATT	CutOne®	100	50	100	100	37	65		2
⚡	**StuI**	EG15577S	AGG/CCT	CutOne®	100	100	100	100	37	80	Dam	1
⚡	**TaqI**	EG15580S	T/CGA	CutOne®	100	100	100	100	65	No	Dam	ND
⚡	**TseI (ApeKI)**	EG26505S	G/CWGC	CutOne®	100	100	100	100	37	80	CpG	ND
⚡	**Tsp45I**	EG24517S	/GTSAC	CutOne®	100	12.5	100	25	65	No	EB	ND
⚡	**XbaI**	EG15581S	T/CTAGA	CutOne®	100	50	100	100	37	80	Dam	2
⚡	**XcmI**	EG15582S	CCANNNNN/NNNNTGG	CutOne®	100	50	100	25~50	37	65		ND
⚡	**XhoI**	EG15583S	C/TCGAG	CutOne®	100	100	100	100	37	80	CpG	4

02 常规限制酶

	AarI	EG25526S	CACCTGC(4/8)	CutOne®	100	<12.5	100	<12.5	37	65	CpG	ND
	ApeKI	EG25519S	G/CWGC	Cut Buffer C	12.5	50	12.5	25	75	No	CpG	ND
	BbvCI	EG25516S	CC/TCAGC	CutOne®	100	100	100	100	37	65	CpG	ND
	BpiI (BbsI)	EG25525S	GAAGAC(2/6)	CutOne®	100	25	100	50	37	65		ND
	BsiWI	EG24506S	C/GTACG	Cut Buffer C	专用缓冲液，不兼容其他				55	80	CpG	2
	BsmBI	EG22507S	CGTCTC(1/5)	Cut Buffer C	专用缓冲液，不兼容其他				55	80	CpG EB	ND
	BspEI	EG25528S	T/CCGGA	Cut Buffer C	< 10	50	< 10	50	37	65	Dam CpG	ND
	BspQI	EG23503S	GCTCTTC(1/4)	Cut Buffer C	专用缓冲液，不兼容其他				50	80		ND
	BsrDI	EG25506S	GCAATG (2/0)	Cut Buffer B	50	100	50	100	37	80	EB	ND
	BstXI	EG24516S	CCANNNNN/NTGG	Cut Buffer C	25	100	25	100	37	65	Dam	ND
	PciI	EG25514S	A/CATGT	Cut Buffer C	50	< 12.5	50	< 12.5	37	80	EK EB	1
	SgeI	EG21501S	^{m5}CNNG(9/13)	SgeI Buffer	专用缓冲液，不兼容其他				37	65		ND
	SgrAI	EG25513S	CR/CCGGYG	Cut Buffer B	50	< 12.5	50	< 12.5	37	65	CpG EK EB	ND
	SspDI (KasI)	EG24514S	G/GCGCC	CutOne®	100	< 12.5	100	< 25	37	80	CpG	ND
	SwaI	EG25527S	ATTT/AAAT	Cut Buffer C	< 12.5	< 12.5	< 12.5	< 12.5	37	85		ND
	XmnI	EG25517S	GAANN/NNTTC	Cut Buffer C	100	100	100	100	37	65	CpG EB	ND

03 GMP Grade

GMP	**BsaI, GMP Grade**	GMP501S	GGTCTC(1/5)	Cut Buffer F, GMP Grade	专用缓冲液，不兼容其他				37	80	Dam CpG	1
GMP	**BspQI, GMP Grade**	GMP503S	GCTCTTC(1/4)	Cut Buffer C, GMP Grade	专用缓冲液，不兼容其他				50	80		ND
GMP	**NheI, GMP Grade**	GMP505S	G/CTAGC	CutOne® Buffer,GMP Grade	100	100	100	100	37	80	CpG	3
GMP	**XbaI, GMP Grade**	GMP502S	T/CTAGA	CutOne® Buffer,GMP Grade	100	50	100	100	37	80	Dam	2
GMP	**XhoI, GMP Grade**	GMP504S	C/TCGAG	Cut Buffer F, GMP Grade	专用缓冲液，不兼容其他				37	80	CpG	4

04 其他限制酶

	Nb.BbvCI	EG25518S	CCTCAGC(none/-2)	CutOne®	100	专用缓冲液，不兼容其他			37	65	EB	ND
	Nb.BsrDI	EG23514S	GCAATG(none/0)	CutOne®	100	专用缓冲液，不兼容其他			65	80	EB	ND
	Nt.BbvCI	EG25520S	CCTCAGC(-5/none)	CutOne®	100	100	100	100	37	65	CpG EB	ND
	Nt.BspQI	EG23512S	GCTCTTC(1/none)	Cut Buffer C	专用缓冲液，不兼容其他				50	80	EB	ND
	Nt.BstNBI	EG24504S	GAGTC(4/none)	Cut Buffer C	专用缓冲液，不兼容其他				65	80		ND
	I-CeuI	EG25529S	TAACTATAACGGTC CTAA/GGTAGCGAA	CutOne®	100	100	100	100	37	80		ND
	I-SceI	EG25504S	TAGGGATAA/CA GGGTAAT	CutOne®	100	/			37	65		ND

⚡ 15 分钟快切
EK 受 EcoKI 甲基化影响
GMP 生产过程符合 GMP 规范
Dcm 受 Dcm 甲基化影响
不含动物源性相关组分
Dam 受 Dam 甲基化影响
EPI 可用于表观遗传学分析
CpG 受 CpG 甲基化影响
EB 受 EcoBI 甲基化影响

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