

RESTRICTION ENDONUCLEASES
REACTION CONDITIONS AND BUFFERS ACTIVITY CHART

Legend:

Indicates activity (%) of restriction endonucleases in different Vivantis buffer systems

Restriction Endonuclease	Recognition Sequence / Cleavage Site 5'→3'	Optimum Reaction Buffer	Optimum Reaction Temperature	Thermal Inactivation	Activity (%)										Product No.	Enzyme Properties
					V1	V2	V3	V4	V5	UB						
										0.5X	1.0X	1.5X	2.0X			
Aat II *	GACGT↓C	V5eff	37°C	65°C			RE1100									
Acc16 I	TGC↓GCA	UBeff	37°C	65°C			RE1102									
Acc65 I	G↓GTACC	V4eff	37°C	65°C			RE1104									
AccB11 *	G↓GYRCC	SPeff	37°C	65°C			RE1106									
AccB7 I *	CCANNN↓NTGG	V2eff	37°C	65°C			RE1108									
AccBS I	CCGCTC (-3/-3)	V5eff	37°C	65°C			RE1110									
Acl I	AA↓CGTT	V5eff	37°C	65°C			RE1112									
Acs I	R↓AATTY	V4eff	50°C	NO			RE1114									
Afi I	CCNNNN↓NNGG	V4eff	50°C	80°C			RV1116									
Ahl I	A↓CTAGT	V2eff	37°C	NO			RE1118									
Alu I	AG↓CT	V5eff	37°C	65°C			RE1120									
Ama87 I	C↓YCGRG	V4eff	37°C	65°C			RE1122									
Apa I	GGGCC↓C	V5eff	37°C	65°C			RE1124									
AsiG I	A↓CCGGT	V3eff	37°C	65°C			RE1126									
AspA2 I	C↓CTAGG	V4eff	37°C	80°C			RE1128									
AspLE I	GCG↓C	V3eff	37°C	NO			RE1130									
AspS9 I	G↓GNCC	V4eff	37°C	65°C			RE1132									
AsuHP I	GGTGA (8/7)	V3eff	37°C	65°C			RE1134									
AsuNH I	C↓CTAGC	V5eff	37°C	65°C			RE1136									
BamH I	G↓GATCC	UBeff	37°C	65°C			RV1138									
Bbv12 I	GWGCW↓C	V3eff	37°C	NO			RE1140									
Bgl I *	GCCNNNN↓NGGC	SPeff	37°C	65°C			RV1142									
Bgl II	A↓GATCT	V4eff	37°C	NO			RV1144									
BmcA I	AGT↓ACT	UBeff	37°C	65°C			RV1146									
Bme18 I	G↓GWCC	V3eff	37°C	65°C			RE1148									
BmeR I	GACNNN↓NNGTC	V5eff	37°C	65°C			RV1150									
Bmi I	GGN↓NCC	V5eff	37°C	65°C			RV1152									
BmrF I	CC↓NNG	V3eff	37°C	NO			RV1154									
Bmt I	GCTAG↓C	V5eff	37°C	65°C			RE1156									
Bpu10 I *	CCTNAGC (-5/-2)	V4eff	37°C	80°C			RE1158									
Bpu14 I	TT↓CGAA	V2eff	37°C	65°C			RE1160									
BpuM I	CC↓SGG	V5eff	37°C	65°C			RV1162									
BpuV I	CGAT↓CG	V2eff	37°C	65°C			RV1164									
Bse1 I	ACTGG (1/-1)	V5eff	65°C	80°C			RE1166									
Bse118 I	R↓CCGGY	V3eff	65°C	NO			RE1168									
Bse21 I	CC↓TNAGG	V5eff	37°C	NO			RE1170									
Bse3D I	GCAATG (2/0)	V2eff	60°C	NO			RE1172									
Bse8 I *	GATNN↓NNATC	V2eff	60°C	NO			RE1174									
BseP I	G↓CGCGC	V2eff	50°C	65°C			RE1176									
BseX3 I	C↓GGCCG	V3eff	50°C	NO			RE1178									
BshV I	AT↓CGAT	V5eff	37°C	65°C			RV1180									
Bsn I	GG↓CC	V4eff	37°C	80°C			RV1182									
Bso31 I	GGTCTC (1/5)	V3eff	55°C	NO			RE1184									
Bsp13 I	T↓CCGGA	SPeff	50°C	65°C			RE1186									
Bsp1720 I	GC↓TNAGC	V3eff	37°C	NO			RE1188									
Bsp19 I	C↓CATGG	V4eff	37°C	65°C			RE1190									
BssM I	↓GATC	UBeff	37°C	65°C			RV1192									
BssN I	GR↓CGYC	V4eff	37°C	NO			RV1194									
BssNA I	GTA↓TAC	V4eff	37°C	NO			RE1196									
BssT1 I	C↓CWWGG	V3eff	60°C	NO			RE1198									
Bst2B I	CACGAG (-5/-1)	V4eff	60°C	NO			RE1200									
Bst2U I	CC↓WGG	UBeff	60°C	NO			RE1202									
Bst4C I	ACN↓GT	V5eff	65°C	NO			RE1204									
Bst6 I	CTCTTC (1/4)	V5eff	65°C	80°C			RE1206									
BstAU I	T↓GTACA	V3eff	37°C	80°C			RE1208									
BstBA I	YAC↓GTR	V4eff	65°C	NO			RE1210									
BstDE I	C↓TNAG	V2eff	60°C	NO			RE1212									
BstDS I	C↓CRYGG	V5eff	65°C	NO			RE1214									
BstEN I	CCTNN↓NNNAGG	UBeff	65°C	80°C			RE1216									
BstF5 I	GGATG (2/0)	V5eff	65°C	NO			RE1218									
BstFN I	CG↓CG	V5eff	60°C	NO			RE1220									
BstH2 I	RGCGC↓Y	V5eff	65°C	NO			RE1222									
BstHH I	GCG↓C	V5eff	50°C	NO			RE1224									
BstMA I	GTCTC (1/5)	V4eff	55°C	NO			RE1226									
BstMB I	↓GATC	V4eff	65°C	80°C			RE1228									
BstMC I	CGRY↓CG	V1eff	50°C	NO			RE1230									
BstNS I	RCATG↓Y	V1eff	37°C	65°C			RE1232									
BstPA I	GACNN↓NNGTC	V5eff	65°C	NO			RE1234									

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					V1	V2	V3	V4	V5	UB						
										0.5X	1.0X	1.5X	2.0X			
BstSN I	TAC↓GTA	V1eff	37°C	NO									RE1236			
BstV2 I	GAAGAC (2/6)	V5eff	55°C	NO									RE1238			
BstX I	CCANNNNN↓NTGG	V3eff	37°C	65°C									RE1240			
BstX2 I	R↓GATCY	V2eff	60°C	NO									RE1242			
Btr I	CACGTC (-3/-3)	V3eff	60°C	80°C									RE1244			
BtuM I	TCG↓CGA	V4eff	37°C	NO									RV1246			
CaN I	GC↓GGCCGC	V5eff	37°C	65°C									RE1248			
Din I	GGC↓GCC	V4eff	37°C	65°C									RV1252			
Dra I	TTT↓AAA	V2eff	37°C	65°C									RE1254			
Dra III *	CACNNN↓GTG	SPeff	37°C	65°C									RE1256			
DseD I	GACNNNN↓NNGTC	V5eff	37°C	NO									RE1372			
EcoCR I	GAG↓CTC	V2eff	37°C	65°C									RE1258			
EcoR I *	G↓AATTC	SPeff	37°C	65°C									RE1260			
EcoR V *	GAT↓ATC	SPeff	37°C	NO									RE1262			
Erh I	C↓CWWGG	V4eff	37°C	65°C									RE1264			
FauND I	CA↓TATG	V5eff	37°C	65°C									RE1266			
Fbl I	GT↓MKAC	V5eff	55°C	NO									RE1268			
Fok I	GGATG (9/13)	V2eff	37°C	65°C									RE1270			
FriO I	GRGCY↓C	V5eff	37°C	65°C									RE1272			
Hind II	GTY↓RAC	V2eff	37°C	65°C									RE1274			
Hind III	A↓AGCTT	V2eff	37°C	80°C									RV1276			
Hinf I	G↓ANTC	V3eff	37°C	NO									RE1278			
Hpa I *	GTT↓AAC	V5eff	37°C	65°C									RE1280			
Hpa II	C↓CGG	V1eff	37°C	NO									RE1282			
HspA I	G↓CGC	UBeff	37°C	NO									RE1284			
Kpn I *	GGTAC↓C	V1eff	37°C	NO									RV1286			
Ksp22 I *	T↓GATCA	V5eff	37°C	65°C									RE1288			
Mbo II	GAAGA (8/7)	SPeff	37°C	65°C									RE1290			
Mhl I *	GDGCH↓C	UBeff	37°C	80°C									RE1292			
Mlu I	A↓CGCGT	V3eff	37°C	65°C									RE1294			
Mnl I	CCTC (7/6)	V2eff	37°C	65°C									RE1296			
MroN I	G↓CCGGC	V1eff	37°C	NO									RE1298			
MroX I	GAANN↓NNTTC	V4eff	37°C	65°C									RE1300			
Msp I	C↓CGG	V2eff	37°C	65°C									RE1302			
Msp20 I	TGG↓CCA	V4eff	37°C	65°C									RE1304			
MspA1 I	CMG↓CKG	V5eff	37°C	65°C									RE1306			
Pce I	AGG↓CCT	V5eff	50°C	80°C									RE1308			
Pct I	GAATGC (1/-1)	V3eff	37°C	65°C									RE1310			
Psp124B I	GAGCT↓C	V2eff	37°C	65°C									RE1312			
PspC I	CAC↓GTG	V1eff	37°C	65°C									RE1314			
PspE I *	G↓GTNACC	V5eff	37°C	65°C									RE1316			
PspOM I	G↓GGCCC	V1eff	37°C	65°C						</						