

Restriction Cloning

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pENTR 1A	Vector in reading frame 0; kanamycin selection	11813-011	pENTR 1A	pENTR 1A	pENTR 1A	pENTR 1A
pENTR 2B	Vector in reading frame +1; kanamycin selection	11816-014	pENTR 2B	pENTR 2B	pENTR 2B	pENTR 2B
pENTR 3C	Vector in reading frame +2; kanamycin selection	11817-012	pENTR 3C	pENTR 3C	pENTR 3C	pENTR 3C

PCR Cloning using BP recombination

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pDONR 221	Directional cloning into Gateway Technology; kanamycin selection	12536-017	pDONR 221	pDONR 221	pDONR 221	pDONR 221
pDONR 201	Original directional cloning into Gateway Technology; kanamycin selection	11798-014	pDONR 201	pDONR 201	pDONR 201	pDONR 201

High-level expression in E. coli

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pDEST 14	T7 promoter; No tag	11801-016	pDEST 14	pDEST 14	pDEST 14	pDEST 14
pDEST 15	T7 promoter; N-terminal GST	11802-014	pDEST 15	pDEST 15	pDEST 15	pDEST 15
pDEST 17	T7 promoter; N-terminal 6xHis	11803-012	pDEST 17	pDEST 17	pDEST 17	pDEST 17
pDEST 17 (A ₁₃₆ -G)	T7 promoter; N-terminal 6xHis; XhoI site created	SIDNET				
pDEST 17 AVI	T7 promoter; N-terminal AVI; made from XhoI mutant pDEST17; N-6xHis tag removed	SIDNET				
pEXP3-DEST	T7 promoter; N-terminal 6xHis; N-terminal Lumio tag, For Expressway System	K9900-70	pEXP3-DEST	pEXP3-DEST	pEXP3-DEST	pEXP3-DEST

Mammalian expression vectors for regulated expression

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pT-REx-DEST31	CMV promoter; N-terminal 6xHis	12302-014	pT-REx-DEST31	pT-REx-DEST31	pT-REx-DEST31	pT-REx-DEST31
pcDNA6/TR	CMV promoter; TetR gene; Blastocidin Resistance	K1020-01	pcDNA6/TR	N/A	pcDNA6/TR	pcDNA6/TR

Mammalian expression vectors for constitutive expression

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pcDNA -DEST40	CMV promoter; C-terminal V5-6XHis; Geneticin selection	12274-015	pcDNA -DEST40	pcDNA -DEST40	pcDNA -DEST40	pcDNA -DEST40
pcDNA -DEST47	CMV promoter; C-terminal GFP; Geneticin selection	12281-010	pcDNA -DEST47	pcDNA -DEST47	pcDNA -DEST47	pcDNA -DEST47
pcDNA -DEST53	CMV promoter; N-terminal GFP; Geneticin selection	12288-015	pcDNA -DEST53	pcDNA -DEST53	pcDNA -DEST53	pcDNA -DEST53
pcDNA 3.1/nV5-DEST	CMV promoter; N-terminal V5; Geneticin selection	12290-010	pcDNA 3.1/nV5-DEST	pcDNA3.1/nV5-DEST	pcDNA3.1/nV5-DEST	pcDNA3.1/nV5-DEST
pcDNA 3.2 -DEST	CMV promoter; C-terminal V5; Geneticin selection	12489-019	pcDNA 3.2 -DEST	pcDNA3.2 -DEST	pcDNA3.2 -DEST	pcDNA3.2 -DEST
pDEST 12.2	CMV promoter; No tag; Geneticin selection	discontinued	pDEST 12.2	pDEST12.2	pDEST 12.2	pDEST 12.2
pDEST 26	CMV promoter; N-terminal 6xHis; Geneticin selection	11809-019	pDEST 26	pDEST 26	pDEST 26	pDEST 26
pDEST 27	CMV promoter; N-terminal GST; Geneticin selection	11812-013	pDEST 27	pDEST 27	pDEST 27	pDEST 27
pcDNA3.1/nHA-DEST	CMV promoter; N-terminal HA; Geneticin selection	SIDNET	pcDNA3.1/nHA-DEST	pcDNA3.1/nHA-DEST		
pcDNA3.1/nMyc-DEST	CMV promoter; N-terminal myc; Geneticin selection	SIDNET	pcDNA3.1/nMyc-DEST	pcDNA3.1/nMyc-DEST		
pcDNA3.1/nFlag-DEST	CMV promoter; N-terminal Flag; Geneticin selection	SIDNET	pcDNA3.1/nFlag-DEST	pcDNA3.1/nFlag-DEST		

pcDNA3.2/cMyc-DEST	CMV promoter; C-terminal myc; Geneticin selection	SIDNET	pcDNA3.2/myc-DEST	pcDNA3.2/myc-DEST		
pcDNA3.1 mOrange	CMV promoter; N-terminal mOrange; Geneticin selection	SIDNET				
pcDNA3.1 mStrawberry	CMV promoter; N-terminal mStrawberry; Geneticin selection	SIDNET				
pcDNA3.1 mCherry	CMV promoter; N-terminal mCherry; Geneticin selection	SIDNET				

Reporter Systems in mammalian cells

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
Vivid Colors pcDNA6.2/C-EmGFP-DEST	CMV promoter; C-terminal EmGFP tag; Blasticidin selection	V355-20	pcDNA6.2/C-EmGFP-DEST	pcDNA6.2/C-EmGFP-DEST	pcDNA6.2/C-EmGFP-DEST	pcDNA6.2/C-EmGFP-DEST
Vivid Colors pcDNA6.2/N-EmGFP-DEST	CMV promoter; N-terminal EmGFP tag; Blasticidin selection	V356-20	pcDNA6.2/N-EmGFP-DEST	pcDNA6.2/N-EmGFP-DEST	pcDNA6.2/N-EmGFP-DEST	pcDNA6.2/N-EmGFP-DEST

High-level expression in insect cells

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pMT -DEST48	DES Metallothionein promoter; C-terminal V5-6xHis	12282-018	pMT -DEST48	pMT -DEST48	pMT -DEST48	pMT -DEST48

Control Vectors

Vector	Feature	Invitrogen Cat. No.	Map	Polylinker	Sequence	Restriction
pcDNA/GW-40 DEST CAT	CMV promoter; C-terminal V5-6XHis		pcDNA/GW-40 DEST CAT	N/A	pcDNA/GW-40 DEST CAT	pcDNA/GW-40 DEST CAT
pcDNA/GW-47 DEST CAT	CMV promoter; C-terminal GFP		pcDNA/GW-47 DEST CAT	N/A	pcDNA/GW-47 DEST CAT	pcDNA/GW-47 DEST CAT
pcDNA3.1/nV5-GW/lacZ	CMV promoter; N-terminal V5		pcDNA3.1/nV5-GW/lacZ	N/A	pcDNA3.1/nV5-GW/lacZ	pcDNA3.1/nV5-GW/lacZ
pcDNA3.2/V5/GW-CAT	CMV promoter; C-terminal V5		pcDNA3.2/V5/GW-CAT	N/A	pcDNA3.2/V5/GW-CAT	pcDNA3.2/V5/GW-CAT
pENTR-GUS	Kanamycin selection		pENTR-GUS	N/A	pENTR-GUS	pENTR-GUS
pT-Rex/GW-31/lacZ	CMV promoter; N-terminal 6xHis		pT-REx/GW-31/lacZ	N/A	pT-REx/GW-31/lacZ	pT-REx/GW-31/lacZ
pEXP3 GW/CAT	T7 promoter; N-terminal 6xHis and Lumio tags		pEXP3 GW/CAT	N/A	pEXP3 GW/CAT	pEXP3 GW/CAT
Vivid Colours pcDNA6.2/C-EmGFP-GW/CAT	CMV promoter; C-terminal EmGFP tag; Blasticidin selection		Vivid Colours pcDNA6.2/C-EmGFP-GW/CAT	N/A	Vivid Colours pcDNA6.2/C-EmGFP-GW/CAT	Vivid Colours pcDNA6.2/C-EmGFP-GW/CAT
Vivid Colours pcDNA6.2/N-EmGFP-GW/CAT	CMV promoter; N-terminal EmGFP tag; Blasticidin selection		Vivid Colours pcDNA6.2/N-EmGFP-GW/CAT	N/A	Vivid Colours pcDNA6.2/N-EmGFP-GW/CAT	Vivid Colours pcDNA6.2/N-EmGFP-GW/CAT