

Prokaryotic Expression Vectors

pET Vectors			
Vector	Features	Resistance	Source/Notes
pET3a, 3b, 3c, 3d	pBR322 origin origin, no tag	Ampicillin	New England Biolabs
pET15b	pBR322 origin, lacI, N-terminal His6, thrombin protease site	Ampicillin	Novagen
pET16b	pBR322 origin, lacI, N-terminal His6, Factor Xa protease site	Ampicillin	Novagen
pET17b	pBR322 origin, N-terminal T7 tag	Ampicillin	Novagen
pET22b	pBR322 origin, lacI, N-terminal PelB leader with signal peptidase site, C-terminal His6	Ampicillin	Novagen
pET23a, 23b, 23c, 23d	pBR322 origin, N-terminal T7 tag, C-terminal His6	Ampicillin	Novagen
pET26b	pBR322 origin, lacI, N-terminal PelB leader with signal peptidase site, C-terminal His6	Kanamycin	Novagen
pET28a, 28b, 28c	pBR322 origin, lacI, N-terminal His6, thrombin protease site, C-terminal His6	Kanamycin	Novagen
pET32a, 32b, 32c	pBR322 origin, lacI, N-terminal thioredoxin, His6, thrombin site, S-tag, enterokinase protease site, C-terminal His6	Ampicillin	Novagen
pET39b	pBR322 origin, lacI, N-terminal DsbA fusion, His6, thrombin, S-tag, Enterokinase site, C-terminal His6	Kanamycin	Novagen
pET40b	pBR322 origin, lacI, N-terminal DsbC fusion, His6, thrombin, S-tag, Enterokinase protease site, C-terminal His6	Kanamycin	Novagen
pET-M11	pBR322 origin, lacI, N-terminal His6, TEVprotease site, C-terminal His6	Kanamycin	EMBL
pET-M20	pBR322 origin, lacI, Thioredoxin, His6, TEVprotease site, C-terminal His6	Ampicillin	EMBL
pET-M30	pBR322 origin, lacI, N-terminal His6, GST, TEVprotease site, C-terminal His6	Kanamycin	EMBL
pET-M40	pBR322 origin, lacI, MBP, TEV protease site, C-terminal His6	Kanamycin	EMBL
pET-SUMO (p4955)	pBR322 origin, lacI, SUMO, ULP1 protease site, N-terminal His6, two cloning sites (BamHI-XhoI)	Kanamycin	
pET Co-expression Vectors			
pET-DUET-1	pBR322 origin, lacI, MCS1 = N-terminal His6, MCS2 = C-terminal S-tag	Ampicillin	Novagen
pRSFDuet-1	lacI, RSF origin, MCS1= N-terminal His6, MCS2 = C-terminal S-tag	Kanamycin	Novagen
pCDFDuet-1	lacI, CDF origin, MCS1= N-terminal His6, MCS2 = C-terminal S-tag	Streptomycin, spectinomycin	Novagen
pCDF-1b	CDF origin, T7 promoter, lac operator, N-terminal His6, enterokinaseprotease site, C-terminal S-tag. Compatible with pET, pRSF, and pACYC vectors.	Streptomycin	Novagen
Our LIC vectors (T7 and pBAD promoters)			
pMA506	pUC origin, pBAD promoter, His6, TEV protease site	Ampicillin	PETC; LIC cloning
pMA507	pBR322 origin, lacI, His6, TEV protease site	Kanamycin	PETC; LIC cloning
pMA508	pBR322 origin, lacI, Thioredoxin, His6, TEVprotease site	Kanamycin	PETC; LIC cloning
pMA509	pBR322 origin, lacI, GST, His6, TEV protease site	Kanamycin	PETC; LIC cloning
pMA510	pBR322 origin, lacI, MBP, His6, TEV protease site	Kanamycin	PETC; LIC cloning
pMA511	pBR322 origin, lacI, MBP (with signal sequence for periplasmic secretion), His6, TEV protease site	Kanamycin	PETC; LIC cloning
pMA512	pBR322 origin, lacI, NusA, His6, TEV protease site	Kanamycin	PETC; LIC cloning
pMAPLe3	pBR322 origin, lacI, MBP, TEV protease site, C-terminal His6, coexpresses TEV protease	Kanamycin	PETC; LIC cloning; in vivo cleavage of MBP fusion protein
Other Vectors			
pTrcHisA/B/C	pBR322 origin, trc promoter, lacIq, N-terminal His6, Xpress tag, enterokinase protease site	Ampicillin	Invitrogen
pTrxFus	ColE1 origin, PI promoter, N-terminal thioredoxin fusion, enterokinaseprotease site	Ampicillin	Invitrogen
pGEX-4T-1	pBR322 origin, N-terminalGST fusion, thrombinprotease site, Ptac promoter, lacIq	Ampicillin	GE Healthcare
pQE-1	ColE1 origin, T5 promoter, N-terminal His6, TagZyme	Ampicillin	Qiagen
pQE-2	ColE1 origin, T5 promoter, N-terminal His6, TagZyme	Ampicillin	Qiagen
pQE-30	ColE1 origin, T5 promoter, N-terminal His6	Ampicillin	Qiagen
pMAL-C2X	Ptac promoter, lacIq, cytoplasmic N-terminal MBP fusion, Factor Xaprotease site	Ampicillin	New England Biolabs
pMAL-P2E	Ptac promoter, lacIq, periplasmic N-terminal MBP fusion, enterokinase site	Ampicillin	New England Biolabs
pMAL-C2	pBR322 origin, Ptac, lacIq, cytoplasmic MBP fusion, Factor Xa protease site	Ampicillin	New England Biolabs
pMAL-P2	Ptac, lacIq, periplasmic MBP fusion, enterokinase protease site	Ampicillin	New England Biolabs
pCOLD	lacI, cspA promoter for ColEI, N-terminal His6, Factor Xa protease site	Ampicillin	Takara
Gateway™ Vectors			
pKM596	Cytoplasmic N-terminal MBP fusion.	Ampicillin	David Waugh
pMA70	Periplasmic N-terminal MBP fusion.	Ampicillin	PETC
pDEST17	Cytoplasmic N-terminal His6 tag	Ampicillin	Invitrogen
pDONR221	Entry vector	Kanamycin	Invitrogen
pGT-TRX	Cytoplasmic N-terminal Thioredoxin fusion	Ampicillin	PETC
pGT-DsbA	Cytoplasmic N-terminal DsbA fusion	Ampicillin	PETC
pGT-DsbC	Cytoplasmic N-terminal DsbC fusion	Ampicillin	PETC
pBAD-DEST49	pUC origin, cytoplasmic TRX, EK site, Gateway cloning site, C-terminal His6. pBAD promoter.	Ampicillin	Invitrogen