

Universal Primer List

Primer Name	Sequence	Base	Vector
Bluescript_SK	CGCTCTAGAAGTGGATC	20	
Bluescript_KS	TCGAGGTCGACGGTATC	17	
KAN2-FP	ACCTACAACAAAGCTCTCATCAACC	25	
KAN2-RP	GCAATGTAACATCAGAGATTTTGAG	25	
pBacPAC-RP	GTCTGTAAATCAACAACGC	19	
pBAD-FP	ATGCCATAGCATTTTATCC	20	
pDONOR-FP	TAACGCTAGCATGGATCTC	19	
pEGFP_N	CCGTCCAGCTCGACCAG	17	
pEGFP-FP	TTTAGTGAACCGTCAGATC	19	
pEGFP-RP	AACAGCTCCTCGCCCTTG	18	
pESP-RP	TCCAAAAGAAGTCGAGTGG	19	
pET-24a	GGGTTATGCTAGTTATTGCTCAG	23	
pET-RP	CTAGTTATTGCTCAGCGG	18	
pMalE	TCAGACTGTCGATGAAGC	18	
pREP-fwd	GCTCGATAACAATAACGCC	19	
35S-A	AAGGGTCTTGCGAAGGATAG	20	

Primer Name	Sequence	Base	Vector
35S-B	AGTGGAAAAGGAAGGTGGCT	20	
AD_Reverse	AGATGGTGCACGATGCACAG	20	pGAD424, pGADT7, pGEX-1, pET-41-Ek-LIC
a-Factor	TACTATTGCCAGCATTGCTGC	21	
CYC_Reverse	GCGTGAATGTAAGCGTGAC	19	
DsRed1-C	AGCTGGACATCACCTCCCACAACG	24	
DsRed1-N	GTACTGGAAGTGGGGGGACAG	21	
EBV-RP	GTGGTTTGTCCAAACTCATC	20	pACT, pBIND, pBlueBac4.5, pBlue-TOPO, pCAT-Basic, pCDNA1, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-His-LacZ, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCEP4, pCI, pCMV-HA, pCMV-myc-nuc, pEBFP-C1, pEGFP-C1, pEGFP-C2, pEGFP-F, pEGFP-N1, pEGFP-N2, pEGFP-N3, pEYFP-C1, pGL2-Basic, pGL2-Control, pGL2-Enhancer, pGL2-Promoter, pGL3-Basic, pGL3-Control, pGL3-Enhancer, pGL3-Promoter, pGL4.10-luc2, pGL4.70-hRluc, pGL4.71-hRlucP
EGFP-C	CATGGTCCTGCTGGAGTTCGTG	22	pEGFP-C series
EGFP-N	CGTCGCCGTCCAGCTCGACCAG	22	pEGFP-N series
U-19mer_Primer	GTTTTCCCAGTCACGACGT	19	p426-GAL, pBlueBac4.5, pBluescript-SK-, pBluescript-SK+, pBlue-TOPO, pCAT-Basic, pCDNA2.1, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-His-LacZ, pCDNA6-myc-His-LacZ, pCMV6, pCMV6-XL4, pCMV6-XL5, pCMV6-XL6, pCMV-HA, pCR2.1-TOPO, pCR4Blunt-TOPO, pCR4-TOPO, pCRII-TOPO, pFlag-CMV-1, pGEM-Teasy, pGEX-1, pGilda, pMALc, pUC18, pUC19, T-Blunt, TnA-vector-RBC
T7 EEV	ATGTCGTAATAACCCCGCCCCG	22	pCEP4, pCI, pCMV6, pCMV6-XL4, pCMV6-XL5, pCMV6-XL6, pET-41-Ek-LIC, pFlag-CMV-1, pGEX-1
pFastBac_Forward	GGATTATTCATACCGTCCCA	20	pFastBac-cloning-vector-with-BioBrick-PolyPromoter-LIC-Subcloning-438-A, pFastBac-Dual, pFastBac-Dual-His6-TEV-LIC-cloning-vector, pFastBac-HT-A, pFastBac-HT-B, pFastBac-LIC-cloning-vector-4A, pFastBac1, pFastBacHT-C, pFBDM

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pFastBac_Reverse	CAAATGTGGTATGGCTGATT	20	pFastBac-cloning-vector-with-BioBrick-PolyPromoter-LIC-Subcloning-438-A, pFastBac-Dual, pFastBac-Dual-His6-TEV-LIC-cloning-vector, pFastBac-HT-A, pFastBac-HT-B, pFastBac-LIC-cloning-vector-4A, pFastBac1, pFastBacHT-C, pFBDM
AOX1_Forward	GACTGGTTCCAATTGACAAGC	21	pPIC3.5K, pPIC6-A , pPIC6-B, pPIC6-C, pPIC9K, pPICZ-E
AOX1_Reverse	GCAAATGGCATTCTGACATCC	21	pPIC3.5K, pPIC6-A , pPIC6-B, pPIC6-C, pPIC9K, pPICZ-E
STag_18mer_Primer	GAACGCCAGCACATGGAC	18	pET-45b+
MT_Forward	CATCTCAGTGCAACTAAA	18	
QE_Promoter	CCGAAAAGTGCCACCTG	17	
pRH_Forward	CTGTCTCTATACTCCCCTATAG	22	
pRH_Reverse	CAAAATTCAATAGTTACTATCGC	23	
pTrcHis_Forward	GAGGTATATATTAATGTATCG	21	
pJET1.2F	CGACTCACTATAGGGAGAGCGGC	23	pJET1.2-blunt-cloning-vector, pJET1.2-STOP-dsRed
pJET1.2R	AAGAACATCGATTTTCCATGGCAG	24	pJET1.2-blunt-cloning-vector
SV40-pArev	CCTCTACAAATGTGGTATGG	20	
SV40-Promoter	GCCCCTAACTCCGCCCATCC	20	
SP6	ATTTAGGTGACACTATAG	18	pCDNA1, pCDNA3, pCMV6-XL6, pCRII-TOPO, pGEM-Teasy
T3	ATTAACCCTCACTAAAG	17	
T7	AATACGACTCACTATAG	17	

Primer Name	Sequence	Base	Vector
T7terminator	GCTAGTTATTGCTCAGCGG	19	pCDFDuet-1, pACYCDuet-1, pET-32a+, pET-41-Ek-LIC, pCRT7-NT-TOPO
T7promoter	TAATACGACTCACTATAGGG	20	p426-GAL, pACT, pBIND, pCDFDuet-1, pACYCDuet-1, pCDNA1, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-HisB, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCI, pCMV6, pCMV6-XL4, pCMV6-XL5, pCR2.1-TOPO, pCR3.1, pCR4Blunt-TOPO, pCR4-TOPO, pCRII-TOPO, pCRT7-CT-TOPO, pCRT7-NT-TOPO, pENTR-D-TOPO, pENTR-U6, pET-32a+, pET-41-Ek-LIC, pFlag-CMV-1, pGADT7, pGBKT7, pGilda, TnA-vector-RBC
M13-FP	TGTAACGACGGCCAGT	18	M13-20F, pCMV6, pCMV6-XL4, pCMV6-XL5, pCMV6-XL6, pCMV-HA, pCR2.1-TOPO, pCR4Blunt-TOPO, pCR4-TOPO, pCRII-TOPO, pENTR-D-TOPO, pENTR-U6, pFlag-CMV-1, pGEM-Teasy, pGEX-1, pGilda, pMALc
M13F-pUC(-40)	GTTTTCCAGTCACGAC	17	pGEM-T easy, pMD20, pENTR, pUC series, pBluescript series
M13R-pUC(-40)	CAGGAAACAGCTATGAC	17	p426-GAL, pBluescript-SK-, pBluescript-SK+, pBlue-TOPO, pCAT-Basic, pCDNA2.1, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-His-LacZ, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCMV6, pCMV-HA, pCR2.1-TOPO, pCR4Blunt-TOPO, pCR4-TOPO, pCRII-TOPO, pEGFP, pENTR-D-TOPO, pENTR-U6, pGAD424, pGADT7, pGBKT7, pGBT9, pGEM-Teasy, pGEX-1, pGilda
M13F	GTAAACGACGGCCAGT	17	pGEM-T easy, pMD20, pENTR, pUC series, pBluescript series
M13R	GCGGATAACAATTTACACAGG	22	p426-GAL, pBluescript-SK-, pBluescript-SK+, pBlue-TOPO, pBridge, pCAT-Basic, pCDNA2.1, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-His-LacZ, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCMV6, pCMV6-XL4, pCMV-HA, pCR2.1-TOPO, pCR4Blunt-TOPO, pCR4-TOPO, pCRII-TOPO, pEGFP, pFlag-CMV-1, pGAD424, pGADT7, pGBKT7, pGBT9, pGEM-Teasy, pGEX-1, pGilda, pMALc, pPROEX-HTa, pSE420, pTrcHis-A, pTrcHis-B, pTrcHis-C, pTrcHis-CAT, pTrcHis-TOPO, pTrcHis-TOPO-lacZ, pUC18, pUC19, T-Blunt, TnA-vector-RBC
pGEX5	GGCAAGCCACGTTTGGTG	18	pET-41-Ek-LIC, pGEX-1
pGEX3	GGAGCTGCATGTGTCAGAGG	20	p426-GAL, pACT, pBacPAK8, pBacPAK9, pBacPAK-His1, pBAD-Myc-His, pBAD-Thio, pBAD-TOPO, pBIND, pBlueBac4.5, pBridge, pCAT-Basic, pCEP4, pCI, pCMV-HA, pEGFP, pET-32a+, pET-41-Ek-LIC, pGAD424, pGADT7, pGBKT7, pGBT9, pGEX-1, pGilda, pMALc, pPROEX-HTa, pQE-30, pSE420, pTrcHis-A, pTrcHis-B, pTrcHis-C, pTrcHis-CAT, pTrcHis-TOPO, pTrcHis-TOPO-lacZ, pUC19, TnA-vector-RBC

Primer Name	Sequence	Base	Vector
BGH-R	TAGAAGGCACAGTCGAGG	18	pBlue-TOPO, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-His-LacZ, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCMV-myc-nuc, pCR3.1
CMV-F	CGCAAATGGGCGGTAGGCGTG	21	pACT, pBIND, pCDNA1, pCDNA3, pCDNA3.1+, pcDNA4-HisMax-TOPO, pcDNA4-HisMax-TOPO-LacZ, pcDNA4-myc-HisA, pcDNA4-myc-HisB, pcDNA4-myc-HisC, pcDNA4-myc-His-LacZ, pCDNA6-myc-HisA, pCDNA6-myc-HisB, pCDNA6-myc-HisC, pCDNA6-myc-His-LacZ, pCEP4, pCI, pCMV6, pCMV6-XL4, pCMV6-XL5, pCMV6-XL6, pCMV-HA, pCMV-myc-nuc, pCR3.1, pEBFP-C1, pEGFP-C1, pEGFP-C2, pEGFP-F, pEGFP-N1, pEGFP-N2, pEGFP-N3, pEYFP-C1, pFlag-CMV-1
RVprimer3	CTAGCAAATAGGCTGTCCC	20	pGL3-Basic, pGL3-Control, pGL3-Enhancer, pGL3-Promoter, pGL4.10-luc2, pGL4.70-hRluc, pGL4.71-hRlucP, pGL series
RVprimer4	GACGATAGTCATGCCCCGCG	20	pET-32a+, pGL2-Basic, pGL2-Control, pGL2-Enhancer, pGL2-Promoter, pGL3-Basic, pGL3-Control, pGL3-Enhancer, pGL3-Promoter, pGL4.10-luc2, pGL4.70-hRluc, pGL4.71-hRlucP
GLprimer1	TGTATCTTATGGTACTGTAAGT	23	pGL2-Basic, pGL2-Control, pGL2-Enhancer, pGL2-Promoter
GLprimer2	CTTTATGTTTTTGGCGTCTTCCA	23	pGL2-Basic, pGL2-Control, pGL2-Enhancer, pGL2-Promoter, pGL3-Basic, pGL3-Control, pGL3-Enhancer, pGL3-Promoter
GAL1_Forward	AATATACCTCTATACTTTAACGTC	24	
Gal4AD	TACCACTACAATGGATG	17	
pQE-F	CCCGAAAAGTGCCACCTG	18	pQE-30
pQE-R	GTTCTGAGGTCATTACTGG	19	pQE-30
pBAD-F	ATGCCATAGCATTTCATCCA	21	pBAD-Myc-His, pBAD-Thio, pBAD-TOPO
pBAD-R	GATTTAATCTGTATCAGG	18	pBAD-Myc-His, pBAD-Thio, pBAD-TOPO
EGFP-CF	AGCACCCAGTCCGCCCTGAGC	21	pEBFP-C1, pEGFP, pEGFP-C1, pEGFP-C2, pEGFP-F

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EGFP-CR	CGTCCATGCCGAGAGTG	17	pEBFP-C1, pEGFP, pEGFP-C1, pEGFP-C2, pEGFP-F
EGFP-NR	CGTCGCCGTCCAGCTC	16	pEBFP-C1 ,pEGFP, pEGFP-C1, pEGFP-C2, pEGFP-F, pEYFP-C1
DuetDown1	GATTATGCGGCCGTGTACAA	21	pET Duet , pACYC Duet , pCDFDuet-1
DuetUP2	TTGTACACGGCCGCATAATC	20	pET Duet , pACYC Duet , pCDFDuet-1
pET-upstream	ATGCGTCCGGCGTAGAGG	18	pET Duet
LCO1490	GGTCAACAAATCATAAAGATATTGG	25	
HCO2198	TAAACTTCAGGGTGACCAAAAAATCA	26	
ITS1	TCCGTAGGTGAACCTGCGG	19	ITS region primer
ITS2	GCTGCGTTCTTCATCGATGC	20	
ITS3	GCATCGATGAAGAACGCAGC	20	
ITS4	TCCTCCGCTTATTGATATGC	20	
ITS5	GGAAGTAAAAGTCGTAACAAGG	22	
27F	AGAGTTTGATCMTGGCTCAG	20	16S rRNA gene primer
1492R	TACGGYTACCTTGTTACGACTT	22	
518F	CCAGCAGCCGCGGTAATACG	20	
800R	TACCAGGGTATCTAATCC	18	
785F	GGATTAGATACCCTGGTA	18	

Primer Name	Sequence	Base	Vector
907R	CCGTCAATTCMTTTRAGTTT	20	16S rRNA gene primer
1100R	GGGTTGCGCTCGTTG	15	
337F	GACTCCTACGGGAGGCWGCAG	21	
NS1	GTAGTCATATGCTTGTCTC	19	18S rRNA gene primer
NS8	TCCGCAGGTTACCTACGGA	20	
NS24	AAACCTTGTTACGACTTTTA	20	
LR0R	ACCCGCTGAACTTAAGC	17	26S rRNA gene primer
LR7	TACTACCACCAAGATCT	17	
DuetDown1	GATTATGCGGCCGTGTACAA	21	pET Duet, pACYC Duet, pCDFDuet-1
DuetUP2	TTGTACACGGCCGCATAATC	20	pET Duet, pACYC Duet, pCDFDuet-1