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| **Vector** | **Primer(F)** | **Primer(R)** | **抗性** | **载体大小(bp)** |
| EZ-T | M13-47 | RV-M | Amp+ | 2984 |
| LZRS-RfA | LZRS-F | LZRS-R |  | 11100 |
| p3xFLAG CMV14 | CMV30(834bp) | CMV24(1151bp) |  | 6310 |
| p3XFlag-myc-CMV-24 | CMV-F(852bp)/PCEP-F(896bp) | R(hGH polyA)(1217bp) |  | 4752 |
| pAAV-MCS | F(β-globin)(1192bp) | R(hGH polyA)(1521bp) |  | 4650 |
| pAc5.1/V5-His A | Ac5-Profor(2525bp) | BGH(2768bp)/EBVrev(2844bp) | Amp+ | 5375 |
| pAc5.1/V5-His B | Ac5-Profor(2525bp) | BGH(2772bp)/EBVrev(2848bp) | Amp+ | 5379 |
| pAc5.1/V5-His C | Ac5-Profor(2525bp) | BGH(2764bp)/EBVrev(2840bp) | Amp+ | 5371 |
| pAcGP67\_A | PH-Profor(4016bp) | pAcGP67rv(4329bp) | Amp+ | 9761 |
| pAcGP67\_B | PH-Profor(4016bp) | pAcGP67rv(4329bp) | Amp+ | 9761 |
| pAcGP67\_C | PH-Profor(4016bp) | pAcGP67rv(4329bp) | Amp+ | 9761 |
| pACT | T7(1061bp) | T3(1420bp) | Amp+ | 5566 |
| pACT2 | 5'AD(同GAL4AD)(5134bp) | 3'AD(4939bp)/pGAL4-Adrv(4964bp)(pGAL4-Adrv离MCS少于20bp，优先用3'AD) | Amp+ | 8117 |
| PACYCDuet-1(MCSⅠ) | DuetUP1(3949bp) | DuetDOWN1(209bp) | Chl+ | 4008 |
| PACYCDuet-1(MCSⅡ) | DuetUP2(189bp) | T7ter(468bp) | Chl+ | 4008 |
| pAdTrack | pEGFP-N-3’(同EGFP-Nrev)(1294bp) | CMV-F(1433bp) | Amp+/Kan+ | 8111 |
| pAdTrack-CMV | pEGFP-N-3’(同EGFP-Nrev)(1272bp) | EBVrev(1982bp) | Kan+ | 9010 |
| PAO815 | 5'AOX | 3'AOX |  | 7700 |
| pAS2-1 | 5'BD(同GAL4BD)(5894bp) | 3'BD(6112bp)/pGAL4-BDrv(6046bp)(优先用3'BD) | Amp+ | 8392 |
| pB42AD | pB42ADF(787bp) | pB42ADR(924bp) | Amp+ | 6449 |
| PBABE-IRES-Egfp | pLXSN-F(同pLXSNfw)(1027bp)/PBABE5'(1063bp)/pBMN5'(1416bp) | 无反向引物 |  | 5944 |
| pBabe-puro | pBabe5'(1318bp) | pBabe3'(1429bp) |  | 5169 |
| pBACPAK8 | BAC1(1181bp)/PH-Profor(1174bp)/BaculoVfor(1211bp) | BAC2(1374bp)/BaculoVrev(1375bp) | Amp+ | 5538 |
| pBAD/His A | pBADfw(211bp)/Xpressfor(375bp)(优先用pBADfw) | pBADrv(514bp) |  | 4102 |
| pBBR1MCS | M13F(3161bp)/T7(3188bp)/M13-47(3135bp) | M13R(3390bp)/T3(3352bp)/RV-M(3409bp) | Amp+ | 4707 |
| pBI121 | 35S(5735bp) | 无 |  | 14758 |
| pBK-CMV | T7(975bp)/M13F(951bp) | T3(1159bp)/M13R(1196bp) | Amp+ | 4518 |
| pBluescript II KS (-) | M13F(599bp)/T7(626bp) | T3(792bp)/M13R(829bp) |  | 2961 |
| pBluescript II KS (+) | M13F(599bp)/T7(626bp) | T3(792bp)/M13R(829bp) |  | 2961 |
| pBluescript II SK (-) | M13F(599bp)/T7(626bp) | T3(792bp)/M13R(829bp) |  | 2961 |
| pBlueScript II SK(+) | M13F(599bp)/T7(626bp) | T3(792bp)/M13R(829bp) |  | 2961 |
| pBluescript KS (-) | M13F(602bp)/T7(626bp) | T3(790bp)/M13R(828bp) |  | 2958 |
| pBluescript KS (+) | M13F(602bp)/T7(626bp) | T3(790bp)/M13R(828bp) |  | 2958 |
| pBluescript SK (-) | M13F(602bp)/T7(626bp) | T3(790bp)/M13R(828bp) |  | 2958 |
| pBluescript SK (+) | M13F(602bp)/T7(626bp) | T3(790bp)/M13R(828bp) |  | 2958 |
| pBSN-T | T7 | T3 | Amp+ |  |
| pBudCE4.1(MCSI) | CMV-Profor(552)/T7(638) | c-mycrev(742bp)/EBVrev(842bp) |  | 4595 |
| pBudCE4.2(MCSⅡ) | PEF-F(2999) | BGH(3235) |  | 4595 |
| pBV220 | PBV220F(3592bp) | PBV220R(93bp) |  | 3667 |
| pCAMBIA1300 | P1 (11472bp) | P2 (2728bp) |  | 11566 |
| pCAMBIA1301 | P1 (10935bp) | P2 (11149bp) |  | 11849 |
| pCAMBIA1304 | P1(11454bp) | P2(11668bp) |  | 12361 |
| pCAMBIA2300 | M13F(8418bp)/M13R(-48) (8313bp) | M13F(-47)(8461bp)/ M13R(8349bp) |  | 8742 |
| pCANTAB\_5E | pCANTAB5-S1(2265bp)/pCANTAB5-R1(2222bp) | pCANTAB5-S6(2471bp)/pCANTAB5-R2(2504bp) |  | 4517 |
| pCAT3-enhancer | RVP3(4215bp) | 无 | Amp+ | 4273 |
| pCDFDuet | T7(214bp) | T7ter(467bp) |  | 3781 |
| pCDH-CMV-MCS-EF1-Puro | CMV-F(2164bp)/PCEP-F(2208bp)/pLNCX-F(2210bp) | 无 |  | 7384 |
| pcDNA1.1 | CMV-F(2076bp)/T7(2170bp) | 无 |  | 4000 |
| pcDNA2.1 | M13F/T7 | M13R/SP6 |  | 3013 |
| pcDNA3.0 | pcDNA3fw(841bp)/CMV-Profor(777bp)/T7(863bp) | SP6(1016bp)/BGH(1053bp) |  | 5446 |
| pcDNA3.1 (-) | T7(863bp)/CMV-Profor(777bp)/pcDNA3fw(841bp) | BGH(1039bp) |  | 5428 |
| pcDNA3.1 (+) | T7(863bp)/CMV-Profor(777bp)/pcDNA3fw(841bp) | BGH(1039bp) |  | 5428 |
| pcDNA3.1/His A | T7(863bp)/CMV-Profor(777bp) | BGH(1122bp) | Amp+ | 5514 |
| pcDNA3.1/His B | T7(863bp)/CMV-Profor(777bp) | BGH(1122bp) | Amp+ | 5514 |
| pcDNA3.1/His C | T7(863bp)/CMV-Profor(777bp) | BGH(1122bp) | Amp+ | 5514 |
| pcDNA3.1/myc-His A | T7(863bp)/CMV-Profor(777bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5494 |
| pcDNA3.1/myc-His B | T7(863bp)/CMV-Profor(777bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5494 |
| pcDNA3.1/myc-His C | T7(863bp)/CMV-Profor(777bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5494 |
| pcDNA3.1/V5-His A | T7(863bp)/CMV-Profor(777bp) | BGH(1108bp)/V5rev(1035bp) | Amp+ | 5502 |
| pcDNA3.1/V5-His B | T7(863bp)/CMV-Profor(777bp) | BGH(1108bp)/V5rev(1035bp) | Amp+ | 5502 |
| pcDNA3.1/V5-His C | T7(863bp)/CMV-Profor(777bp) | BGH(1108bp)/V5rev(1035bp) | Amp+ | 5502 |
| pcDNA3.1/Zeo(-) | T7(863bp)/CMV-F(769bp) | BGH(1038bp) | Amp+ | 5014 |
| pcDNA3.1/Zeo(+) | T7(863bp)/CMV-F(769bp) | BGH(1039bp) | Amp+ | 5015 |
| pcDNA3.3/TOPOTA | CMV-F(584bp)/PCEP-F(628bp)/pLNCX-F(630bp) | 无 | Amp+ | 5407 |
| pcDNA4/HisMax A | Xpressfor(1119bp) | BGH(1282bp) | Amp+ | 5258 |
| pcDNA4/HisMax B | Xpressfor(1119bp) | BGH(1282bp) | Amp+ | 5258 |
| pcDNA4/HisMax C | Xpressfor(1119bp) | BGH(1282bp) | Amp+ | 5258 |
| pcDNA4/HisMax-TOPO | Xpressfor(1119bp) | BGH(1302bp) | Amp+ | 5274 |
| pcDNA4/HisMax-TOPO/lacZ | Xpressfor(1119bp) | BGH(4482bp) | Amp+ | 8354 |
| pcDNA4/myc-His A | CMV-Profor(777bp)/T7(863bp) | BGH(1103bp)/ c-mycrev(1024bp) | Amp+ | 5079 |
| pcDNA4/myc-His B | CMV-Profor(777bp)/T7(863bp) | BGH(1103bp)/ c-mycrev(1024bp) | Amp+ | 5079 |
| pcDNA4/myc-His C | CMV-Profor(777bp)/T7(863bp) | BGH(1103bp)/ c-mycrev(1024bp) | Amp+ | 5079 |
| pcDNA4/TO | TREfor(908bp)/CMV-Profor(777bp) | BGH(1106bp) | Amp+ | 5078 |
| pcDNA4/V5-His A | CMV-Profor(777bp)/T7(863bp) | BGH(1117bp)/V5rev(1044bp) | Amp+ | 5092 |
| pcDNA4/V5-His B | CMV-Profor(777bp)/T7(863bp) | BGH(1117bp)/V5rev(1044bp) | Amp+ | 5092 |
| pcDNA4/V5-His C | CMV-Profor(777bp)/T7(863bp) | BGH(1117bp)/V5rev(1044bp) | Amp+ | 5092 |
| pcDNA5/FRT | CMV-Profor(777bp)/T7(863bp) | BGH(1039bp) | Amp+ | 5069 |
| pcDNA6/myc-His A | CMV-Profor(777bp)/T7(863bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5126 |
| pcDNA6/myc-His B | CMV-Profor(777bp)/T7(863bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5126 |
| pcDNA6/myc-His C | CMV-Profor(777bp)/T7(863bp) | BGH(1099bp)/c-mycrev(1020bp) | Amp+ | 5126 |
| pcDNA6/V5-His A | CMV-Profor(777bp)/T7(863bp) | BGH(1121bp)/V5rev(1048bp) | Amp+ | 5148 |
| pcDNA6/V5-His B | CMV-Profor(777bp)/T7(863bp) | BGH(1121bp)/V5rev(1048bp) | Amp+ | 5148 |
| pcDNA6/V5-His C | CMV-Profor(777bp)/T7(863bp) | BGH(1121bp)/V5rev(1048bp) | Amp+ | 5148 |
| pcDNAII | T7(2997bp) | SP6(152bp) |  | 3013 |
| pcDNA™6.2-GW/EmGFP-miR | miRNA-F | miRNA-R | Amp+ | 5699 |
| pCEP4 | EBVrev(367bp) | pCEP-F(500bp) | Amp+ | 10410 |
| pCI(neo) | 17Base(996bp)/T7(1067bp)(17Base在T7之前) pCI-neoF(886bp) | EBVrev(1206bp)/T3(1158bp) | Amp+ | 5472 |
| pCMS-EGFP | T7(1067bp) | T3(1158bp) | Amp+ | 5541 |
| pCMV-3Tag-4A | T3(621bp)/PFLAG-CMV-F(536bp) | T7(906bp)/BGH(952bp) |  | 4233 |
| pCMV5 | CMV-F(853bp)/PCEP-F(897bp) | 无 | Amp+ | 4657 |
| pCMV5-Flag | pCMV5F | pCMV5R | Amp+ |  |
| PCMV6 | V1.5(815bp)/CMV-Profor(861bp) | XL39(1077bp)/HGHrev(1022bp) | Amp+ | 4665 |
| PCMV6-XL4 | CMV-F(882bp)/T7(952bp)/SP6(952bp) | M13R(1048bp)/HGHrev(1089bp) | Amp+ | 4707 |
| PCMV-AC | V1.5 | XL39(同CMV-24) |  | 5939 |
| pCMV-HA | CMV-Profor(485bp)/TREfor(570bp) | EBVrev(965bp) | Amp+ | 3782 |
| pCMV-MCS | F(β-globin) | R(hGH polyA) |  | 4492 |
| pCMV-MYC | pCMV-F(794bp)/CMV-Profor(490bp)/TREfor(570bp) | pCMV-R(965bp)/EBVrev(973bp) | Amp+ | 3791 |
| pCMV-Sport1 | T7(646bp) | SP6(806bp)/pLNCX-F(924)/CMV-F(970bp)(优先用SP6) | Amp+ | 4380 |
| pCMV-Sport6 | M13F(663bp)/T7(691bp) | SP6(872bp)/M13R(899bp) |  | 4397 |
| pCMV-Tag(KAN+) | T3(621bp) | T7(840bp) | Amp+ | 4219 |
| pCMV-Tag1(KAN+) | T3(621bp) | T7(840bp) |  | 4219 |
| pCMV-Tag2(KAN+) | T3(621bp) | T7(840bp) |  | 4219 |
| pCMV-Tag-2B | T3(621bp) | T7(845bp) |  | 4323 |
| pCMV-Tag3(KAN+) | T3(621bp) | T7(847bp) |  | 4219 |
| pCMV-Tag-3B | T3(621bp) | T7(846bp) |  | 4300 |
| pCMV-Tag4(KAN+) | T3(621bp) | T7(840bp) |  | 4219 |
| pCMV-Tag5(KAN+) | T3(621bp) | T7(843bp) |  | 4219 |
| PCMX-GAL4(MCS区) | CMV-F | CMV-R |  | 4500 |
| pCOLADuet-1(MCS2) | T7(214bp)/DuetUP2(189bp)(优先用T7) | T7ter(467bp) | Kan+ | 3719 |
| pcoldⅡ | pcoldI-F(208bp) | pcoldI-R(387bp) |  | 4392 |
| pcoldⅢ | pcoldI-F(208bp) | pcoldI-R(374bp) |  | 4377 |
| pcoldⅣ | pcoldI-F(208bp) | pcoldI-R(356bp) |  | 4377 |
| pcoldI | pcoldI-F(208bp) | pcoldI-R(404bp) |  | 4407 |
| pcoldI | pcoldI-F(208bp) | pcoldI-R(404bp) |  | 4407 |
| pcoldIII | pcoldI-F | pcoldI-R |  | 4751 |
| pCold-SUMO | pCold-SUMO-F | pCold-SUMO-R | Amp+ | 4751 |
| pCold-TF | pCold-TF-F1 | pCold-SUMO-R | Amp+ | 5769 |
| pCR blunt II TOPO | SP6(239bp)/M13R(205bp)/RV-M(186bp) | T7(425bp)/M13F(449bp)/M13-47(475bp) | Amp+/Kan+ | 3512 |
| pCR2.1 | M13R(205bp) | M13F(406bp，)/T7(382bp) |  | 3907 |
| pCR2.1-TOPO | M13R(205bp) | M13F(409bp)/T7(385bp)(T7离MCS只有6bp，优先用M13F) | Amp+/Kan+ | 3909 |
| pCR3.1 | T7(638bp) | BGH(831bp) | Amp+/Kan+ | 5060 |
| pCR3.1-Uni | T7(638bp) | BGH(790bp) |  | 5020 |
| pCR4-TOPO | T3(243bp)/M13R(205bp)/RV-M(186bp) | T7(374bp)/M13F(371bp)/M13-47(397bp) | Amp+/Kan+ | 3956 |
| PCRE-LUC | RVP3(4976bp) | GLP2(327bp) |  | 5034 |
| pCR-ScriptSK | T7/M13F | T3/M13R | Amp+/Kan+ |  |
| pCS2+ (MCSI) | SP6(35bp) | EBVrev(188bp) | Amp+ | 4095 |
| pCS2+ (MCSII) | pSG5rv(222bp) | T3(409bp) | Amp+ | 4095 |
| pDBLEU | pDBLeu-F(6137bp) | pDBLeu-R(6395bp) |  | 9903 |
| pDEST15 Gateway | T7(25bp)/PGEX-F(721bp)/pGEXrv(5270bp) | T7ter(2579bp) | Amp+ | 7013 |
| PDEST20 | PH-Profor(43bp)/PGEX-F(777bp)/EBVrev(2771bp) | 无 | Amp+ | 7066 |
| PDEST22 | PDEST22-F(4610bp)/pDEST22-F1998(4540bp) | PDEST22-R(6539bp)/pDEST22-R4000(6627bp) | Amp+ | 8923 |
| pDNR-LIB(MCSA) | M13F(4065bp)/T7(4089bp) | M13R(385bp) |  | 4200 |
| pDNR-LIB(MCSB) | EBVrev(253bp) | M13R(385bp) |  | 4200 |
| pDONR/Zeo | M13F(536bp) | M13R(3044bp) |  | 4291 |
| pDONR201 | SeqL-A(286bp) | SeqL-B(2789bp) |  | 4470 |
| pDONR207 | SeqL-A(5567bp) | SeqL-B(2485bp) |  | 5585 |
| pDONR221 | M13F(536bp) | M13R(3044bp) |  | 4762 |
| pDrive | T7(239bp)/M13R(204bp) | SP6(418bp)/M13F(449bp) | Amp+/Kan+ | 3851 |
| pDsRED1-C1 | pDsRED-ex-C1-F(1222bp) | 无 |  | 4686 |
| pDSRED1-N1 | CMV-Profor(519bp) | RFP-Nrev(751bp) |  | 4692 |
| pDsRED2-C1 | pDsRED-ex-C1-F(1219bp) | 无反向引物 |  | 4675 |
| pDSRED-N1 | pEGFP-N-5' | pDSRED-N1-R | Kan+ |  |
| pEarlygate102 | 35S(2580bp) |  |  | 12453 |
| PEarlygate201 | 35S(2580bp) |  |  | 11778 |
| pEasy-blunt | M13R(205bp) | M13F(406bp)/T7(382bp) |  | 3929 |
| pEasy-E1 | T7(209bp) | T7ter(440bp)(离MCS不到20bp) |  | 5715 |
| pEasy-E2 | T7(5117bp) | T7ter(5327bp) |  | 5393 |
| pEasy-T1 | M13R(205bp)/RV-M(186bp) | M13F(405bp)/M13-47(431bp)(优先用RV-M和M13-47) |  | 3928 |
| pEasy-T1 Simple | M13R(205bp)/RV-M(186bp) | M13F(306bp)/M13-47(332bp)(优先用RV-M和M13-47) |  | 3829 |
| pEasy-T3 | M13F(2996bp)/T7(3036bp删几个碱基后才能找到，最好不用) | M13R(214bp)/SP6(180bp)(优先用M13引物) |  | 3036 |
| pECFP-C1 | EGFP-Cfor(1219bp) | SV40-pArev(1576bp) |  | 4731 |
| pECFP-N1 | CMV-Profor(524bp)/pEGFP-N-5’(545bp) | pEGFP-N-3’(同EGFP-Nrev)(745bp) |  | 4733 |
| pEF/myc/cyto/ER/mito/nuc | PEF-F(同EF-1aForward)(1133bp) | pCDNA3.1R(1483bp)/c-mycrev(1405bp) |  | 5603 |
| pEF/myc/ER | PEF-F(同EF-1aForward)(1133bp) | BGH(1483bp) | Amp+ | 5603 |
| pEGFP(3'MCS) | pEGFP-C-5’(942bp) | 无反向引物 |  | 3355 |
| pEGFP(5'MCS) | M13R(距第一个MCS位点29bp)(205bp) | pEGFP-N-3’(同EGFP-Nrev)(355bp) |  | 3355 |
| pEGFP-C1 | EGFP-Cfor(1219bp)/pEGFP-C-5(1267bp，离MCS较近，不建议使用) | SV40-pArev(1575bp)/pEGFP-C-3(1410bp，离MCS较近，不建议使用) |  | 4731 |
| pEGFP-C2 | EGFP-Cfor(1219bp)/pEGFP-C-5(1267bp离MCS较近，不建议使用) | SV40-pArev(1579bp)/pEGFP-C-3(1434bp，离MCS较近，不建议使用) |  | 4735 |
| pEGFP-C3 | EGFP-Cfor(1239bp)/pEGFP-C-5(1265bp，离MCS较近，不建议使用) | SV40-pArev(1571bp)/pEGFP-C-3(1425bp，离MCS较近，不建议使用) |  | 4727 |
| pEGFP-F | EGFP-Cfor(1219bp) | SV40-pArev(1650bp) |  | 4806 |
| pEGFP-N1 | CMV-Profor(519bp)/pEGFP-N-5'(566bp) | pEGFP-N-3’(同EGFP-Nrev)(745bp) |  | 4733 |
| pEGFP-N2 | CMV-Profor(524bp) | pEGFP-N-3’(同EGFP-Nrev)(749bp) |  | 4737 |
| pEGFP-N3 | CMV-Profor(524bp) | pEGFP-N-3’(同EGFP-Nrev)(741bp) |  | 4729 |
| pENTR/D (-TOPO) | M13F(536bp)/SeqL-A(481bp) | M13R(861bp)/SeqL-B(894bp) | Kan+ | 2580 |
| pET-\*(His) | T7(4010bp) | T7Ter(4191p) | Kan+ | 4636 |
| pET21a | T7(5117bp) | T7Ter(5357bp) |  | 5443 |
| pET22a(AMP+) | T7 | T7Ter |  | 5493 |
| pET22b(AMP+) | T7(5117bp) | T7Ter(5426bp) |  | 5493 |
| pET22c(AMP+) | T7 | T7Ter |  | 5493 |
| pET-24(+) | T7(4984bp) | T7Ter(5169bp) |  |  |
| pET-24a(+) | T7 | T7Ter |  | 5236 |
| pET-24b(+) | T7 | T7Ter |  | 5236 |
| pET-24c(+) | T7 | T7Ter |  | 5236 |
| pET-24d(+) | T7 | T7Ter |  | 5236 |
| pET28a(+) | T7 | T7Ter |  | 5369 |
| pET28b(+) | T7 | T7Ter |  | 5369 |
| pET28c(+) | T7 | T7Ter |  | 5369 |
| pET-30\_Ek/LIC | T7 | T7Ter | Amp+ | 5439 |
| pET-30\_Xa/LIC | T7 | T7Ter | Amp+ | 5448 |
| pET-30a(+) | T7(4988bp) | T7ter(5355bp) |  | 5422 |
| pET-30b(+) | T7 | T7Ter |  | 5422 |
| pET-30c(+) | T7 | T7Ter |  |  |
| pET-32a | S.tag(5631bp) | T7ter(5833bp) |  | 5900 |
| pET-32b | S.tag | T7ter |  | 5900 |
| pET-32c | S.tag | T7ter |  | 5900 |
| pET-33b(+) | T7(4984bp) | T7ter(5316bp) | Kan+ | 5383 |
| pET-34b(+) | T7 | T7ter | Kan+ | 5918 |
| pET-3a | T7(1bp) | T7ter(186bp) | Amp+ | 4640 |
| pET-3b | T7(1bp) | T7ter(185bp) | Amp+ | 4639 |
| pET-3c | T7(1bp) | T7ter(184bp) | Amp+ | 4638 |
| pET-3d | T7(1bp) | T7ter(183bp) | Amp+ | 4637 |
| pET-40b(+) | S.tag(5888bp) | T7ter(6123bp) | Kan+ | 6190 |
| pET-41a(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5866bp) | Kan+ | 5933 |
| pET-41b(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5865bp) | Kan+ | 5932 |
| pET-41c(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5867bp) | Kan+ | 5934 |
| pET-42a(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5863bp) | Kan+ | 5930 |
| pET-42b(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5862bp) | Kan+ | 5929 |
| pET-42c(+) | S.tag(5603bp)/PGEX-F(5455bp) | T7ter(5864bp) | Kan+ | 5931 |
| pET-43.1a(+) | 无 | T7ter(7209bp) |  | 7275 |
| pET-43.1b(+) | 无 | T7ter(7207bp) |  | 7274 |
| pET-43.1c(+) | 无 | T7ter(7163bp) |  | 7230 |
| pET-44\_Ek/LIC | S.tag/T7(如果S.tag被切除，可以用T7，正常情况下不建议使用T7) | T7ter | Amp+ | 7331 |
| pET-44a(+) | S.tag(6545bp)/T7(4870bp,如果S.tag被切除，可以用T7，正常情况下不建议使用T7) | T7ter(7244bp) | Amp+ | 7310 |
| pET-44b(+) | S.tag/T7(如果S.tag被切除，可以用T7，正常情况下不建议使用T7) | T7ter | Amp+ | 7310 |
| pET-44c(+) | S.tag/T7(如果S.tag被切除，可以用T7，正常情况下不建议使用T7) | T7ter | Amp+ | 7310 |
| pET-45b(+) | T7(4870bp) | T7ter(5193bp) | Amp+ | 5260 |
| pET46-Ek/LIC | T7(4870bp) | T7ter(5133bp) | Amp+ | 5200 |
| pET49b | PGEX-F | T7ter |  | 5926 |
| pET-49b(+) | PGEX-F(5455bp) | T7ter(5859bp) |  | 5926 |
| pET50b(+) | S.tag(6545bp)/T7(4751bp，如果S.tag被切除，可以用T7，正常情况下不建议使用T7) | T7ter(6666bp) |  | 6733 |
| pET-9a | T7(3711bp) | T7ter(3896bp) | Kan+ | 4341 |
| pET-9b | T7(3711bp) | T7ter(3895bp) | Kan+ | 4340 |
| pET-9c | T7(3711bp) | T7ter(3894bp) | Kan+ | 4339 |
| pETDuet-1(MCSI) | pBRrevBam(5297bp) | DuetDOWN1(208bp) | Amp+ | 5420 |
| pETDuet-1(MCSII) | DuetUP2(189bp)/T7(214bp) | T7ter(467bp) | Amp+ | 5420 |
| pEYFP-C1 | pEGFP-C-5’(1266bp) | pEGFP-C-3'(1429bp)/SV40-pArev(1575bp) | Kan+ | 4731 |
| pEYFP-N1 | pEGFP-N-5’(545bp)/CMV-Profor(519bp) | pEGFP-N-3’(同SV40-pArev)(745bp) | Kan+ | 4733 |
| pFastBac Dual (MCSI) | BaculoVfor(4531bp)/PH-Profor(4494bp) | FastBac-rev(4753bp)/SV40-pArev(4884bp) |  | 5238 |
| pFastBac Dual (MCSII) | HSVtk-pArev(4236bp) | p10-Profor(4456bp) |  | 5238 |
| pFastBac HT\_A | pFastBac-fw(4040bp)/PH-Profor(3920bp)/BaculoVfor(3957bp) | pFastBac-rev(4271bp) |  | 4856 |
| pFastBac HT\_B | pFastBac-fw(4040bp)/PH-Profor(3920bp)/BaculoVfor(3957bp) | pFastBac-rev(4271bp) |  | 4856 |
| pFastBac HT\_C | pFastBac-fw(4040bp)/PH-Profor(3920bp)/BaculoVfor(3957bp) | pFastBac-rev(4271bp) |  | 4856 |
| pFastBac1 | PH-Profor(3920bp)/BaculoVfor(3957bp) | pFastBac-rev(4191bp) |  | 4776 |
| pFastBac1-Gus | 无正向引物 | SV40-pArev(6208bp) |  | 6661 |
| pFastBacHT-CAT | 无正向引物 | SV40-pArev(5046bp) |  | 5500 |
| pFLAG-ATS | N26for(18bp) | pTrcHis-rv(同pBADrv)(285bp) |  | 5408 |
| pFLAG-CMV1 | pFLAG-CMV-F(863bp)/CMV-30(834bp) | pFLAG-CMV-R(1125bp)/CMV-24(1144bp) | Amp+ | 4732 |
| pFLAG-CMV2 | pFLAG-CMV-F(863bp)/CMV-30(834bp) | pFLAG-CMV-R(1083bp)/CMV-24(1102bp) | Amp+ | 4679 |
| pFLAG-MAC | N26for(18bp) | pTrcHis-rv(同pBADrv)(225bp) |  | 5063 |
| pGAD424 | GAL4AD(5'AD)(757bp) | 3'AD(937bp)/pGAL4-Adrv(900bp) | Amp+ | 6659 |
| pGADGH | GAL4AD(5'AD)(748bp) | T7(933bp)/3'AD(1045bp) | Amp+ | 8009 |
| pGADT7 | 5'AD(1827bp)/T7(1905bp) | pGAL4-Adrv(2075bp) |  | 7988 |
| pGADT7-Rec | 5'AD(1858bp)/T7(1905bp) | 3'AD(2154bp) | Amp+ | 8059 |
| pGAPZa\_A | a-FACTOR(同Alphafor)(696bp)/GAP-DH-Profor(455bp) | 3'AOX(976bp)/c-mycrev(850bp)/AOX1rev(994bp) | Kan+ | 3147 |
| pGAPZa\_B | a-FACTOR(同Alphafor)(696bp)/GAP-DH-Profor(455bp) | 3'AOX(976bp)/c-mycrev(850bp)/AOX1rev(994bp) |  | 3147 |
| pGAPZa\_C | a-FACTOR(同Alphafor)(696bp)/GAP-DH-Profor(455bp) | 3'AOX(976bp)/c-mycrev(850bp)/AOX1rev(994bp) |  | 3147 |
| pGBKT7(KAN+) | T7(1213bp)/GAL4-BD-Cfor(1155bp) | 3'BD(1494bp)/pGAL4-BDrv(1429bp) | Amp+ | 7304 |
| pGEM-T(Easy) | M13F(2975bp)/T7(2999bp) | SP6(158bp)/M13R(192bp) | Amp+ | 3015 |
| pGene/V5-His A (GeneSwitch) | pLNCX-F(190bp)/Pgene-F(357bp) | BGH(659bp)/v5rev(586bp) | Amp+ | 4650 |
| pGene/V5-His B (GeneSwitch) | pLNCX-F(190bp)/Pgene-F(357bp) | BGH(663bp)/v5rev(590bp) | Amp+ | 4654 |
| pGene/V5-His C (GeneSwitch) | pLNCX-F(190bp)/Pgene-F(357bp) | BGH(655bp)/v5rev(582bp) | Amp+ | 4646 |
| pGEX-2T | PGEX-F(874bp) | PGEX-R(1016bp) |  | 4948 |
| pGEX-2TK | PGEX-F(874bp) | PGEX-R(1037bp) |  | 4969 |
| pGEX-3X | PGEX-F(874bp) | PGEX-R(1002bp) |  | 4952 |
| pGEX-4T-1 | PGEX-F | PGEX-R |  | 4969 |
| pGEX-4T-2 | PGEX-F | PGEX-R |  | 4970 |
| pGEX-4T-3 | PGEX-F | PGEX-R |  | 4968 |
| pGEX-5X-1 | PGEX-F | PGEX-R |  | 4972 |
| pGEX-5X-2 | PGEX-F | PGEX-R |  | 4973 |
| pGEX-5X-3 | PGEX-F | PGEX-R |  | 4974 |
| pGEX-6P-1 | PGEX-F | PGEX-R |  | 4984 |
| pGEX-6P-2 | PGEX-F | PGEX-R |  | 4985 |
| pGEX-6P-3 | PGEX-F | PGEX-R |  | 4983 |
| pGEX-KG | PGEX-F | PGEX-R |  | 5006 |
| pGL2-Basic | GLP1(5564bp) | GLP2(99bp) |  | 5598 |
| pGL2-Control | GLP1(6013bp) | GLP2(291bp) |  | 6046 |
| pGL2-Enhancer | GLP1(5821bp) | GLP2(99bp) |  | 5854 |
| pGL2-Promotor | GLP1(5756bp) | GLP2(291bp) |  | 5789 |
| pGL3-Basic (MCS I) | RVP3(4760bp) | GLP2(111bp) |  | 4818 |
| pGL3-Basic (MCS II) | 无 | RVP4(2080bp) |  | 4818 |
| pGL3-Control (MCS I) | RVP3(5198bp) | GLP2(303bp) |  | 5256 |
| pGL3-Control (MCS II) | pLXSNrv(2407bp) | RVP4(2518bp) |  | 5256 |
| pGL3-Enhancer (MCS I) | RVP3(5006bp) | GLP2(111bp) |  | 5064 |
| pGL3-Enhancer (MCS II) | pLXSNrv(2215bp) | RVP4(2326bp) |  | 5064 |
| pGL3-Promoter (MCS I) | RVP3(4952bp) | GLP2(303bp) |  | 5010 |
| pGL3-Promoter (MCS II) | 无 | RVP4(2272bp) |  | 5010 |
| PGL4.10 | RVP3(4191bp) | GLP2(130bp) |  | 4242 |
| pGL4.70 | RVP3(3471bp) | hrRLuc-Nrev(148bp) | Amp+ | 3522 |
| pGS21a | T7(1bp) | T7ter(982bp) |  | 6169 |
| pHEN2 | M13R(2206bp) | 无 | Amp+ | 4616 |
| pinpointTM | PinpointPrimer(325bp) | SP6(468bp) |  | 3331 |
| pIRES (MCS I) | T7 (1067bp) | pIRESrv(1125bp) | Amp+ | 6092 |
| pIRES (MCS II) | 无 | T3(1776bp)/EBVrev(1824bp) | Kan+ | 6092 |
| pIRES2-EGFP | pIRES2-EGFP.P5(531bp)/CMV-Profor(524bp) | pIRES2-EGFP.P3(732bp)/IRES-R(781bp) | Amp+ | 5308 |
| pIRES-hrGFP-2a | CMV-Profor(530bp)/ T3(521bp) | 无 | Amp+ | 4988 |
| pIRESneo2 | T7(863bp)/CMV-F(769bp) | pIRESrv(1326bp) | Amp+ | 5295 |
| pIVEX 2.3d | T7(620bp)/pBRrevBam(517bp) | T7ter(882bp) | Amp+ | 3560 |
| pJET1.2/blunt | PJET1.2-F(310bp)/T7(305bp) | PJET1.2-R(429bp) | Amp+ | 2974 |
| pJG4-5 | pJG4-5Forward(807) | pJG4-5Reverse(906) |  | 6449 |
| pkk223 | pKKrv(4534bp)/pBADrv(4512bp) | pKKfw(31bp) |  | 4586 |
| pkk223-3 | pKKrv(4534bp)/pBADrv(4512bp) | pKKfw(31bp) |  | 4586 |
| pLEGFP-C1 | EGFP-Cfor(3680bp) | pLNCX-R(3960bp) |  | 6892 |
| pLenti6/V5 D-TOPO Gateway (ViraPower) | CMV-F(2274bp)/PCEP-F(2318bp)/pLNCX-F(2320bp) | v5rev(2508bp) |  | 6963 |
| pLex | 无 | M13F(2507bp) | Amp+ | 2886 |
| pLEXA | PLEXA-F(2081bp)/LexAfor (2081bp) | PLEXA-R(2298bp)/pGAL4-BDrv (2225bp) |  | 10166 |
| pLKO.1-TRC | SV40(1839bp)/EBVrev(1652bp) | T7(1878bp)/M13F(1923bp)/M13-47(1949bp) |  | 8901 |
| PLL3.7 | U6-promoter-ZL(2476bp) |  |  | 7650 |
| pLNCX | PLNCX-F(804bp) | PLNCX-R(3544bp) |  | 6620 |
| pLNCX2 | CMV-Profor(2841bp) | pRevTRErv(3033bp) |  | 6133 |
| PLVX-SHRNA1 | U6-promoter(human)(2383bp) | 无 | Amp+ | 7758 |
| pLXSN | PLXSN-F(1574bp)/pLXSNfw (1572bp) | PLXSN-R(1759bp)/pLXSNrv(1701bp) |  | 5874 |
| pMAL-c2E | malE(2587bp) | M13-47(2782bp) | Amp+ | 6649 |
| pMAL-C2x | pMAL-C2x-F(2558bp) | pMAL-C2x-R(2803bp) | Amp+ | 6646 |
| pMAL-C5x | malE(2587bp) | pMAL-C5x-R(2846bp) |  | 5677 |
| pMAL-p2X | malE(2662bp) | M13-47(2854bp) | Amp+ | 6721 |
| PMCSG7 | T7ter(68bp) | T7(376bp) |  | 5286 |
| pMD18-T | RV-M (484bp) | M13-47(375bp) | Amp+ | 2692 |
| pMD19-T | M13-47(352bp) | RV-M (507bp) | Amp+ | 2692 |
| PMD20-T | RV-M(2707bp) | M13-47(170bp) |  | 2737 |
| pMSCV-hyg | pLXSNfw(1332bp) | pMSCVrev(1672bp) | Amp+ | 6971 |
| pMSCV-neo | pLXSNfw(1332bp) | pMSCVrev(1679bp) | Amp+ | 6467 |
| pMSCV-puro | pLXSNfw(1332bp) | pMSCVrev(1659bp) | Amp+ | 6295 |
| pMT/V5-HisA | MT-Profor(814bp) | BGH(1038bp)/v5rev(965bp) |  | 3538 |
| pMT/V6-HisB | MT-Profor | BGH/v5rev |  |  |
| pMT/V7-HisC | MT-Profor | BGH/v5rev |  |  |
| pOTB7 | M13F(110bp)/SP6(53bp) | M13R(252bp)/T7(311bp) |  | 1815 |
| pPCR-Script-Amp | M13-47(573bp)/M13F(599bp)/T7(626bp) | T3(790bp)/M13R(828bp)/RV-M(847bp) |  | 2961 |
| pPCR-Script-CAM | M13-47(573bp)/M13F(599bp)T7(626bp) | T3(790bp)/M13R(828bp)/RV-M(847bp) |  | 3399 |
| pPIC9K(AMP+、ZEO+) | a-FACTOR(同Alphafor)(1152bp)/5’AOX(855bp,离MCS较远，优先用a-factor) | 3'AOX(1348bp) | Amp+ | 9300 |
| pPICZa | 5'AOX(同AOX1for)(854bp) | 3'AOX(同AOX1rev)(1180bp)/C-mycrev(1035bp) | Amp+ | 3329 |
| pPICZb | 5'AOX(同AOX1for) | 3'AOX(同AOX1rev)/C-mycrev | Amp+ | 3329 |
| pPICZc | 5'AOX(同AOX1for) | 3'AOX(同AOX1rev)/C-mycrev | Amp+ | 3329 |
| pPROEXHTa | RV-M(234bp) | pBADrv(同pTrcHis-rv)(483bp) |  | 4751 |
| pPROEXHTb | RV-M | pBADrv(同pTrcHis-rv) |  | 4751 |
| pPROEXHTc | RV-M | pBADrv(同pTrcHis-rv) |  | 4751 |
| PPZP111 | M13R(8467bp)/RV-M(8448bp) | M13F(8571bp)/M13-47(8597bp) |  | 8909 |
| PPZP201 | M13R(6697bp)/RV-M(6678bp) | M13F(6801bp)/M13-47(6827bp) |  | 7132 |
| PQCXIN | pLNCX-F(2108bp) | IRES-R(2404bp) | Amp+ | 7381 |
| pQE30 | pQE30-F(65bp)/TypeIII/IV(69bp) | pQE30-R(243bp) | Amp+ | 3461 |
| pQE40 | pQE30-F(65bp) | pQE30-R(813bp) | Amp+ | 4031 |
| pQE80L | BLA-Prorev(4573bp)TypeIII/IV(69bp)pQE30-F(65bp) | pQE30-R(243bp) |  | 4751 |
| PQE-trisystem | TriExup(1021bp) | TriExdowm(1529bp) | Amp+ | 5766 |
| pQE-TriSystem His.Strep 1 | PCAG-F(1012bp) | Baculovirs\_rev(1812bp)/BaculoVrev(1931bp) |  | 5760 |
| PRK5-flag | SP6(828bp) | pSG5rv(同SV40-pArev)(1030bp) |  | 4661 |
| pRNA-U6.1/Neo | T7 | BGH | Amp+ |  |
| pRS424 | M13F(1840bp)/T7(1867bp)/pBluescriptKS(1910bp) | 无 |  | 5616 |
| pRSET | T7(20bp)/Xpressfor(139bp) | T7TER(317bp) |  | 2897 |
| pRSFDuet-1(MCSI) | DuetUP1(3771bp) | DuetDOWN1(208bp) |  | 3829 |
| pRSFDuet-1(MCSII) | DuetUP2(189bp) | T7TER(467bp) |  | 3829 |
| pSectag(v5/His/a,b,c) | T7(863bp) | BGH(1154bp) | Kan+ | 5185 |
| pSHUTTLE-CMV | CMV-F(857bp) | PSHUTTLE-CMV-R(1031bp)/SV40-pArev(同pSG5rv)(1173bp) |  | 7469 |
| pSilencer\_4.1-CMV\_neo | Psilencer-4.1-F(377bp) | Psilencer-4.1-R(639bp) |  | 5590 |
| pSilencer2.0-U6 | T7(271bp) | 2.0REV/M13F(696bp)(M13F比2.0REV离MCS近30bp左右) | Amp+ | 3075 |
| pSilencer3.1-H1hygro# | M13-47(352bp) | 3.0REV(1163bp) |  | 5597 |
| pSIREN-RetroQ | pSIREN-F(6188bp)/PBABE5'(6141bp)/PLXCN/pLXSN-F(6105bp) | pMSCVrev(252bp) |  | 6445 |
| pSP64 | SP6(2982bp)/pBRrevBam(2673bp,离MCS稍远，优先用SP6) | M13R(83bp)/RV-M(102bp) | Amp+ | 2999 |
| pSP65 | SP6(2989bp)/pBRrevBam(2679bp,离MCS稍远，优先用SP6) | M13R(89bp)/RV-M(108bp) | Amp+ | 3005 |
| pSP72 | SP6(2446bp) | T7(118bp) | Amp+ | 2462 |
| pSport1 | SP6(165bp)/M13F(139bp)/M13-47(113bp) | T7(319bp)/M13R(353bp)/RV-M(372bp) |  | 4110 |
| pSTBlue-1 | T7(24bp)/M13R(3839bp) | SP6(202bp)/M13F(233bp) | Amp+ | 3851 |
| PSTV28 | M13-47(1640bp) | RV-M(1789bp) |  | 2999 |
| pSUPER | T7(626bp)/M13F(599bp) | T3(1005bp)/M13R(1043bp) |  | 3176 |
| pT-Adv | M13R(205bp) | M13F(405bp)/T7(381bp) |  | 3906 |
| pTargeT™ | pTarget.F(1181bp)(在T7上游)/T7(1229bp) | pTarget.R(1454bp) |  | 5670 |
| PTG19-T | M13F | M13R |  | 2880 |
| pThioHis A | TrxForward(3777bp) | M13F(同TrxReverse/M13F-20)(3986bp) |  | 4365 |
| pThioHis B | TrxForward(3777bp) | M13F(同TrxReverse/M13F-20)(3984bp) |  | 4363 |
| pThioHis C | TrxForward(3777bp) | M13F(同TrxReverse/M13F-20)(3988bp) |  | 4367 |
| ptkLUC (MCSI 1-270) | EBVrev(4428bp) | LucNrev(322bp) | Amp+ | 4711 |
| ptkLUC (MCSII：2100) | 无 | M13R(2200bp) | Amp+ | 4711 |
| pTRC99a-c | pTRC99C-F(146bp) | pTRC99C-R(385bp) |  | 4176 |
| pTrcHis A | Xpressfor(452bp) | 无 |  | 4414 |
| pTrcHis B | Xpressfor | 无 |  |  |
| pTrcHis C | Xpressfor | 无 |  |  |
| PTRE(clontech) | PCEP-F(289bp)/pLNCX-F(291bp) | 无 |  | 2605 |
| pTriEx1.1\_Neo | T7(2150bp)/TriExup(2099bp) | IRES-R(2608bp) |  | 6664 |
| pTriPLEx2 | TriplEx-LD-5´(521bp) | T7(680bp)/TriplEx-LDrv (678bp) |  | 3589 |
| PTZ57R/T | M13F | T7/M13R |  | 2886 |
| pUC118 | RV-M(186bp)/M13R(205bp) | M13-47(334bp)/M13F(308bp) |  | 3162 |
| pUC119 | RV-M(186bp)/M13R(205bp) | M13-47(334bp)/M13F(308bp) |  | 3162 |
| pUC18 | M13-47(352bp)/M13F(378bp) | RV-M(500bp)/M13R(481bp) |  | 2686 |
| pUC19 | M13-47(352bp)/M13F(378bp) | RV-M(500bp)/M13R(481bp) |  | 2686 |
| pUC20 | M13F | M13R |  | 2705 |
| pUC57-T | M13-47(352bp)/M13F(378bp) | RV-M(524bp)/M13R(505bp) | Amp+ | 2710 |
| pUCm-T | M13F(378bp)/T7 | M13R(482bp) | Kan+ | 2773 |
| pUM-T | M13F | M13R |  | 2726 |
| pVAX1 | T7(664bp)/ CMV-Profor(575bp) | BGH(841bp) |  | 2999 |
| pwpxl | PEF-F/EF-1aForward(3245bp) | 无反向引物 |  | 10501 |
| pWSK29 | T7/M13F/M13-47 | T3/M13R/RV-M |  |  |
| pXT7 | T7 | SP6 |  |  |
| pYES2 | pYes2.R(同CYC1-Terminator)(218bp) | GAL1-Profor(509bp)/T7(386bp) |  | 5857 |
| pYES2/CT | GAL1-Profor(352bp)/T7(475bp) | pYes2.R(同CYC1-Terminator)(743bp) |  | 5963 |
| pYES3/CT | GAL1-Profor(352bp)/T7(475bp) | pYes2.R(同CYC1-Terminator)(743bp) |  | 5870 |
| TOPO-PENTR-SD | M13F(536bp) | M13R(862bp) |  | 2580 |

通用引物序列

|  |  |  |
| --- | --- | --- |
|  | **引物名称** | **序列(5'-3')** |
| 1 | 1492R | GGTTACCTTGTTACGACTT |
| 2 | 27F | AGAGTTTGATCCTGGCTCA |
| 3 | 3.0rev | GAGTTAGCTCACTCATTAGGC |
| 4 | 35S | GACGCACAATCCCACTATCC |
| 5 | 3'AD | AGATGGTGCACGATGCACAG |
| 6 | 3'AOX | GGCAAATGGCATTCTGACAT |
| 7 | 3'BD | TAAGAGTCACTTTAAAATTTGTATAC |
| 8 | 5'AD(同GAL4AD) | TACCACTACAATGGATGATG |
| 9 | 5'AOX | GACTGGTTCCAATTGACAAGC |
| 10 | 96gIII(同M13-96) | CCCTCATAGTTAGCGTAACG |
| 11 | a-FACTOR | TACTATTGCCAGCATTGCTGC |
| 12 | BAC1 | AACCATCTCGCAAATAAATA |
| 13 | BAC2 | ACGCACAGAATCTAGCGCTT |
| 14 | BaculoVfor | TGTTTTCGTAACAGTTTTG |
| 15 | BaculoVrev | AACGCACAGAATCTAGCGC |
| 16 | BGH | TAGAAGGCACAGTCGAGG |
| 17 | CMV-24 | TTAGGACAAGGCTGGTGG |
| 18 | CMV-30 | ATAACCCCGCCCCGTTG |
| 19 | CMV-Profor | ATGGGCGGTAGGCGTG |
| 20 | CMV-R | TCGTTGGGCGGTCAGC |
| 21 | C-mycrev | CTCTTCTGAGATGAGTTTTTG |
| 22 | DuetDOWN1 | GATTATGCGGCCGTGTACAA |
| 23 | DuetUP1 | GATCTCGACGCTCTCCCT |
| 24 | DuetUP2 | TTGTACACGGCCGCATAATC |
| 25 | EBVrev | GTGGTTTGTCCAAACTCATC |
| 26 | EF-1aForward | TCAAGCCTCAGACAGTGGTTC |
| 27 | EGFP-Nrev | CGTCGCCGTCCAGCTC |
| 28 | EGFP-Cfor | AGCACCCAGTCCGCCCTGAGC |
| 29 | F(β-globin) | ATTCTGAGTCCAAGCTAGGC |
| 30 | GAL4BD(同5'BD) | TCATCGGAAGAGAGTAG |
| 31 | GAP-DH-Profor | GTCCCTATTTCAATCAATTGAA |
| 32 | GLP1 | TGTATCTTATGGTACTGTAACTG |
| 33 | GLP2 | CTTTATGTTTTTGGCGTCTTCCA |
| 34 | GPDpromoter-F | CGGTAGGTATTGATTGTAATTCTG |
| 35 | IRES-R | CCTCACATTGCCAAAAGACG |
| 36 | ITS3 | GCATCGATGAAGAACGCAGC |
| 37 | ITS4 | TCCTCCGCTTATTGATATGC |
| 38 | ITS5 | GGAAGTAAAAGTCGTAACAAGG |
| 39 | LexAfor | CGTCAGCAGAGCTTCACCATTG |
| 40 | M13-47 | CGCCAGGGTTTTCCCAGTCACGAC |
| 41 | M13R | CAGGAAACAGCTATGACC |
| 42 | RV-M | AGCGGATAACAATTTCACACAGGA |
| 43 | malE | GGTCGTCAGACTGTCGATGAAGCC |
| 44 | mU6F2(mouse) | TAGTATCCGACGCCGCCATC |
| 45 | N26for | CATCATAACGGTTCTGGC |
| 46 | NOSF-primer | CACCTGATCCCAGCTTGC |
| 47 | NOSR-primer | CGTCCAGCTCCATGTTGC |
| 48 | P1 | CCAGGCTTTACACTTTATGC |
| 49 | P2 | GCGATTAAGTTGGGTAACGC |
| 50 | P12584 | TTTTCAGTATCTACGAT |
| 51 | P17110 | TACCACTACAATGGATG |
| 52 | p10-Profor | CGGACCTTTAATTCAACCC |
| 53 | pAcGP67rv | TTGGTTCTTGCCGGGTC |
| 54 | PAS2-1F | TCATCGGAAGCGAGTAG |
| 55 | PAS2-1R | CGTTTTAAAACCTAAGAGTCAC |
| 56 | PB42ADF | CCAGCCTCTTGCTGAGTGGAGATG |
| 57 | PB42ADR | AAGCCGACAACCTTGATTGGAG |
| 58 | pBABE3' | ACCCTAACTGACACACATTCC |
| 59 | PBABE5' | CTTTATCCAGCCCTCAC |
| 60 | pBADfw | CCATAGCATTTTTATCCATAAG |
| 61 | pBADrv | ATCTGTATCAGGCTGAAAATC |
| 62 | pBRrevBam | GGTGATGTCGGCGATATAGG |
| 63 | PBV220F | AAGAAGGGCAGCATTCAAAG |
| 64 | PBV220R | CTGCGTTCTGATTTAATCTG |
| 65 | pCANTAB5-R1 | CCATGATTACGCCAAGCTTTGGAG |
| 66 | pCANTAB5-R2 | CGATCTAAAGTTTTGTCGTCTTTC |
| 67 | pCANTAB5-S3 | GGTTCAGGCGGAGGTGGCTCTGG |
| 68 | pCANTAB5-S4 | CCAGAGCCACCTCCGCCTGAACC |
| 69 | pCDNA3.0F | CTCTGGCTAACTAGAGAACC |
| 70 | pCDNA3.0R | GGCAACTAGAAGGCACAGTC |
| 71 | pCDNA3.1F | CTAGAGAACCCACTGCTTAC |
| 72 | PCEP-F | AGAGCTCGTTTAGTGAACCG |
| 73 | pCMV-5R | ATTATAGAGGACACCTAGTC |
| 74 | PCMV-F | TCTAAAAGCTGCGGAATTGT |
| 75 | PCMV-R | TCCAAACTCATCAATGTATC |
| 76 | pcoldI-F | ACGCCATATCGCCGAAAGG |
| 77 | pcoldI-R | GGCAGGGATCTTAGATTCTG |
| 78 | pDBLeu-F | GAATAAGTGCGACATCATCATC |
| 79 | pDBLeu-R | GTAAATTTCTGGCAAGGTAGAC |
| 80 | pDsRED-ex-C1-F | TCCCACAACGAGGACTACAC |
| 81 | pDSRED-N1-R | TGAAGCGCATGAACTCCTTG |
| 82 | pEGFP-C-3' | TATGGCTGATTATGATCAGT |
| 83 | pEGFP-C-5’ | CATGGTCCTGCTGGAGTTCGTG |
| 84 | pEGFP-N-5' | TGGGAGGTCTATATAAGCAGAG |
| 85 | pFASTBAC-F | TGAAGTGGTTCGCATCCTC |
| 86 | pFASTBAC-R | TGGACAAACCACAACTAGAATG |
| 87 | pFastBac-rev | CCTCTACAAATGTGGTATGG |
| 88 | HSVtk-pArev | GTCTCCTTCCGTGTTTCAG |
| 89 | pFastBac-fw | GTCCGAAACCATGTCGTAC |
| 90 | pFlag-CMV-F | GGTAGGCGTGTACGGTGG |
| 91 | pFlag-CMV-R | GCACTGGAGTGGCAACTT |
| 92 | pGAL4-ADrv | GAACTTGCGGGGTTTTTC |
| 93 | pGAL4-BDrv | AATCATAAGAAATTCGCCC |
| 94 | pGEXfw | GGCAAGCCACGTTTGGTG |
| 95 | pGEXrv | GAGCTGCATGTGTCAGAGG |
| 96 | PH-Profor | AAATGATAACCATCTCGC |
| 97 | PinPointprimer | CGTGACGCGGTGCAGGGCG |
| 98 | pIRES2-EGFP.P3’ | AACGCACACCGGCCTTATTC |
| 99 | pIRES2-EGFP.P5’ | GTAGGCGTGTACGGTGGGAG |
| 100 | pIRESrv | GCCCTAGATGCATGCTCG |
| 101 | pIRES-hrGFPrv | GTCCTTATCATCGTCGTCTT |
| 102 | pKKfw | AGCGGATAACAATTTCAC |
| 103 | pKKrv | TCTCTCATCCGCCAAAACAG |
| 104 | pLXSNfw | CCCTTGAACCTCCTCGTTCG |
| 105 | pLXSNrv | ACTTTCCACACCCTAACTG |
| 106 | pLXSN-F | CTTGAACCTCCTCGTTCGAC |
| 107 | pLXSN-R | GTTGCTGACTAATTGAGATG |
| 108 | pLNCX-F | AGCTCGTTTAGTGAACCGTCAGATCG |
| 109 | pLNCX-R | ACCTACAGGTGGGGTCTTTCATTCCC |
| 110 | pLEXA-F | CGTCAGCAGAGCTTCACCAT |
| 111 | pLEXA-R | TAAAACCTAAGAGTCACTTT |
| 112 | pMAL-C2X-F | TGCGTACTGCGGTGATCAAC |
| 113 | pMAL-C2X-R | CTGCAAGGCGATTAAGTTGG |
| 114 | PPC86-F | TATAACGCGTTTGGAATCACT |
| 115 | pQE30-F | TGAGCGGATAACAATTTCAC |
| 116 | pQE30-R | GTTCTGAGGTCATTACTGG |
| 117 | pRevTRErv | CCCCCTTTTTCTGGAGAC |
| 118 | pSG5rv | GAAATTTGTGATGCTATTGC |
| 119 | pSHUTTLE-CMV-F | GGTCTATATAAGCAGAGGTG |
| 120 | pSHUTTLE-CMV-R | GTGGTATGGCTGATTATGATCAG |
| 121 | pSilencer4.1-R | CGGTAGGCGTGTACGGTG |
| 122 | pTarget.F | CCAGGATTTTCCCAGTCAC |
| 123 | pTarget.R | GGCTTTACACTTTATGCTTC |
| 124 | pTARGET-seq | TTACGCCAAGTTATTTAGGTGACA |
| 125 | PTRC99C-F | TTGCGCCGACATCATAAC |
| 126 | PTRCHISA-F | CATGGTATGGCTAGCATGAC |
| 127 | PTRCHISA-R | CAGGCTGAAAATCTTCTCTC |
| 128 | pYes2.R/CYC1-Terminator | GCGTGAATGTAAGCGTGAC |
| 129 | RFP-Nrev | GTTCACGGTGCCCTCC |
| 130 | R(hGH polyA) | TAGAAGGACACCTAGTCAGA |
| 131 | RVP3 | CTAGCAAAATAGGCTGTCCC |
| 132 | RVP4 | GACGATAGTCATGCCCCGCG |
| 133 | pCANTAB5-S1 | CAACGTGAAAAAATTATTATTCGC |
| 134 | pCANTAB5-S6 | GTAAATGAATTTTCTGTATGAGG |
| 135 | SeqL-A | GCAGTTCCCTACTCTCGC |
| 136 | SeqL-B | CATCAGAGATTTTGAGACAC |
| 137 | SP6 | ATTTAGGTGACACTATAG |
| 138 | S.TAG | CGAACGCCAGCACATGGACA |
| 139 | SV40 | GGAGGCTTTTTTGGAGGC |
| 140 | T3 | ATTAACCCTCACTAAAGGGA |
| 141 | T7 | TAATACGACTCACTATAGG |
| 142 | T7(17base) | ACATCCACTTTGCCTTTCTC |
| 143 | T7ter | TGCTAGTTATTGCTCAGCGG |
| 144 | tac-Profor | AATTAATCATCCGGCTCG |
| 145 | TrxForward | TTCCTCGACGCTAACCTG |
| 146 | TrxReverse | TGTAAAACGACGGCCAGTGC |
| 147 | TriplEx-LDrv | ATACGACTCACTATAGGGCGAATTGGC |
| 148 | TriplEx-LD-5' | CTCGGGAAGCGCGCCATTGTGTTGG |
| 149 | U6-promoter(human) | CCGTAACTTGAAAGTATTTCG |
| 150 | v1.5 | GGACTTTCCAAAATGTCG |
| 151 | V5rev | ATCGAGACCGAGGAGAGG |
| 152 | WPRE-R | CATAGCGTAAAAGGAGCAACA |
| 153 | Xpressfor | AGCATGACTGGTGGACAG |
| 154 | pSilencer4.1-F/2.0rev | AGGCGATTAAGTTGGGTA |
| 155 | pCDNA3.1R/BGH | TAGAAGGCACAGTCGAGG |
| 156 | XL39/CMV-24 | ATTAGGACAAGGCTGGTGGG |
| 157 | PEF-F/EF-1aForward | TCAAGCCTCAGACAGTGGTTC |
| 158 | pTrcHis-rv/pBADrv | ATCTGTATCAGGCTGAAAATC |
| 159 | PTRC99C-R/PBV220R | CTGCGTTCTGATTTAATCTG |
| 160 | PPC86-R/pDBLeu-R | GTAAATTTCTGGCAAGGTAGAC |
| 161 | M13F/TrxReverse/M13F-20 | TGTAAAACGACGGCCAGT |
| 162 | SV40-pArev/pSG5rv | GAAATTTGTGATGCTATTGC |
| 163 | CMV-F(与CMV-Profor距离近，可通用) | CGCAAATGGGCGGTAGGCGTG |
| 164 | pEGFP-N-3’(与EGFP-Nrev距离近，可通用) | CGTCGCCGTCCAGCTCGACCAG |
| 165 | pJG4-5Forward | GATGCCTCCTACCCTTATGATGTGCC |
| 166 | pJG4-5Reverse | GGAGACTTGACCAAACCTCTGGCG |

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