



pLV-hUbC-VP64-dCas9-VP64-T2A-GFP-WPRE质粒说明书

【质粒信息】

产品货号	GC020800037
产品名称	pLV-hUbC-VP64-dCas9-VP64-T2A-GFP-WPRE
产品规格	<input checked="" type="checkbox"/> 小提 (≥2ug) <input type="checkbox"/> 中提 (≥35ug) <input type="checkbox"/> 大提 (≥500ug)
原核抗性	Amp
真核抗性	无
荧光标记	GFP
高/低拷贝	高
培养温度	37°C
感受态	DH5a

【保存与扩增】

- 1.保存：质粒置于-20°C保存，穿刺菌置于4°C保存
- 2.质粒扩增：收到质粒后离心，-80°C取出感受态细胞，取1uL质粒加至100ul感受态中，冰浴30min；42°C热击90s，再冰浴2min，混合液体直接涂板，倒置培养12-16h，挑单克隆至液体培养基中，震荡12-16h，提取质粒。
- 3.菌液扩增：经划线培养后挑克隆至相应抗性LB培养基中。

【注意事项】

- 本质粒未经基恩科 (Genecaere) 生物书面许可不得用于任何商业用途，也不得移交给订货人所在实验室外的任何个人或单位。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

【使用说明】

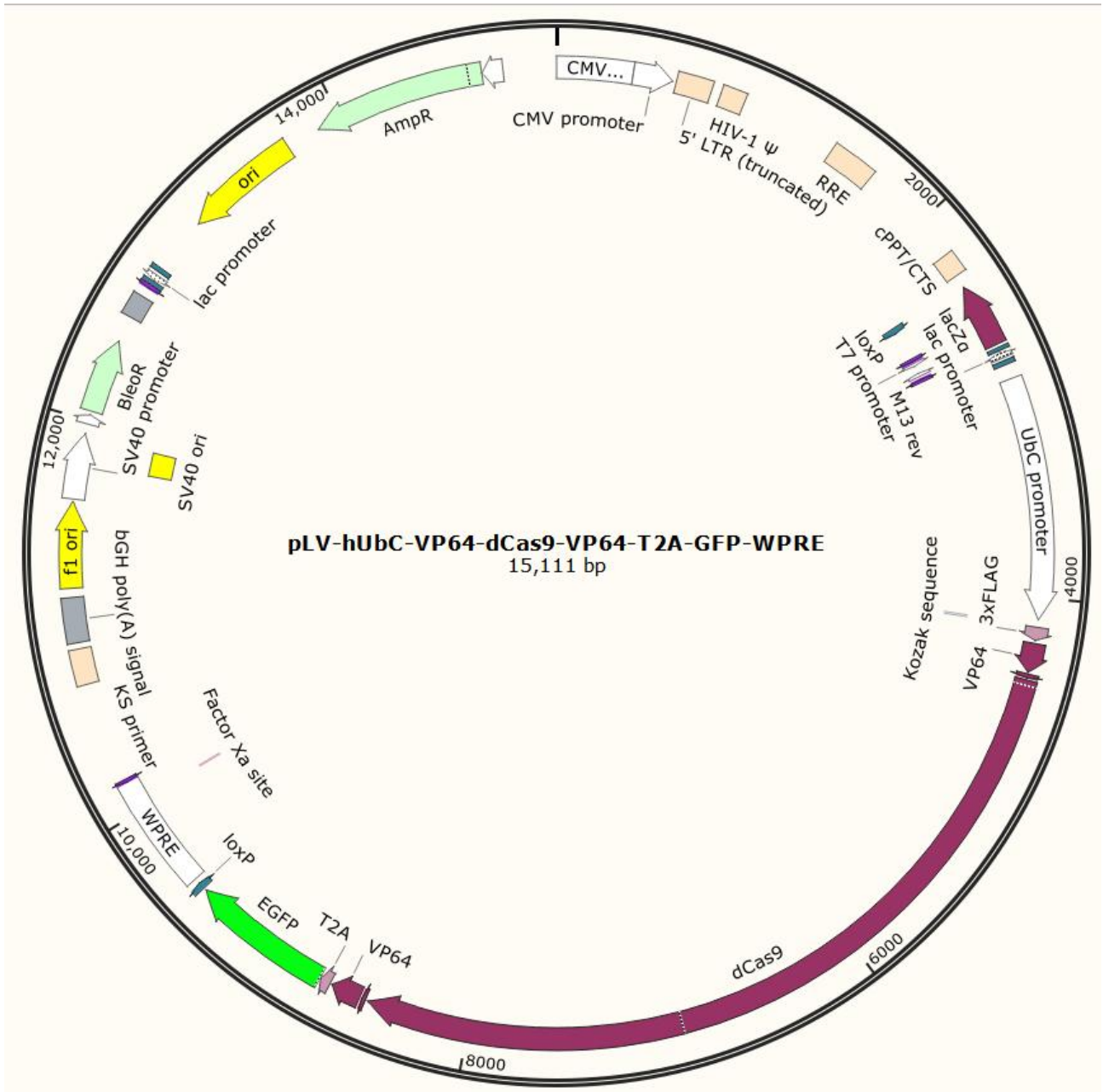
首次使用2μg包装的本产品时，请先取少量本质粒转化大肠杆菌，进行质粒小量、中量或大量抽提后再用于后续用途。抽提获得的质粒可以通过酶切电泳进行鉴定，或通过测序进行鉴定。

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)

【质粒图谱】



【质粒序列】

gacattgattattgactagttattaatagtaataatcattacgggggtcattagttcatagcccataatggaggttccgcgttacataac
ttacggtaaatggcccgcctggctgaccgcccacgacccccgccattgacgtcaataatgacgtatgttcccataagtaacgccaa
tagggactttccattgacgtcaatgggtggagtatttacggtaaactgccacttggcagtcacatcaagtgtatcatatgccaagta

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)



cgccccctattgacgtcaatgacggtaaatggccccgctggcattatgccagttacatgaccttatgggactttcctacttggcagt
acatctacgtatttagtcatcgtattaccatgggtgatgcggttttggcagttacatcaatgggcgtggatagcgggtttagctcacggg
gatttccaagctccacccccattgacgtcaatgggagtttggtttggcaccaaaatcaacgggactttccaaaatgtcgtacaact
ccgccccattgacgcaaatgggcggtaggcgtgtacggtagggaggtctatataagcagcgcgttttgcctgtactgggtctctctgg
ttagaccagatctgagcctgggagctctctggctaacttaggaaccctgcttaagcctcaataaagcttgccttgagtgttcaa
gtagtgtgtgccgtctgttgtgtgactctggtaactagagatccctcagacccttttagtcagtggtgaaaatctctagcagtggc
gcccgaacagggacttgaagcgaagggaaaccagaggagctctctcagcagcaggactcggcttgcctgaagcgcgcacggcaagag
gcgagggggcggcagctggtgagtacgcaaaaaattttagctagcggaggctagaaggagagagatgggtgcgagagcgtcagtatta
agcgggggagaattagatcgcgatgggaaaaatcgggttaaggccaggggaaagaaaaataaaattaaacatatagtatggg
caagcaggagctagaacgattcgcagttaatcctggcctgttagaacaatcagaaggctgtagacaataactgggacagctacaac
catcccttcagacaggatcagaagaacttagatcattatataatcagtagcaaccctctattgtgtgcatcaaaggatagagataa
aagacaccaaggaagctttagacaagatagaggaagagcaaaaacaaagtaagaccaccgcacagcaagcggcgcgtgatcttcaga
cctggaggaggagatatgagggacaattggagaagtgaattatataaataaaagtagtaaaaaatgaaccattaggagtagcacc
accaaggcaagagaagagtgtgagagagaaaaagagcagtgggaaataggagcttggcttgccttgggttcttgggagcagcagga
agcactatgggcgcagcgtcaatgacgctgacggtagcagcaaatattgtctggtatagtgagcagcagacaatattgctg
agggtattgaggcgaacagcactctgttgcaactcacagctcggggcatcaagcagctccaggcaagaatcctggctgtgaaaga
tacctaaaggatcaacagctcctggggatttggggttgcctcggaaaactcatttgcaccactgctgtgccttggatgctagtgg
agtaataaatctctggaacagatttggatcacacgacctggatggagtgggacagagaaatcaacaattacacaagcttaatacac
tccttaattgaagaatcgaaaaccagcaagaaaagaatgaacaagaattattggaattagataaatgggcaagtttggtaattgg
tttaacatacaaaattggctgtggtatataaaattatcataatgatagtaggaggttggtaggttaagaatagtttttgcctgta
ctttctatagtgatagagtttagcagggatattcaccattatcgtttcagaccacctcccaacccccgaggggacccgacaggccc
gaaggaatagaagaagaaggtggagagagagacagagacagatccattcagtagtgaacggatcggcactgcgtgcgccaattctg
cagacaaatggcagttatccacaattttaaaagaaaaggggggattgggggtacagtgaggggaaagaatagtagacataat
agcaacagacatacaaacaaagaattacaaaaacaaattacaaaaattcaaaattttcgggtttattacagggacagcagagatcc
agtttgggttaattaaataacttcgtatagcatacattatagcaagttatgataagagacgggtggttgcgccgctacagggcgcgtcc
cattcgcattcaggctgcgcaactgttgggaagggcgatcgggtgcgggctcttcgctattacgccagctggcgaagggggatgt
gctgcaaggcgattaagttgggtaacgccagggtttccagtcacgacgttgtaaacgacggccagtgagcgcgtaatacagc
tcaatagggcgaattgggtaccgggccccctcagaggtcctccagcttttgttcccttttagtgagggttaattgcgcgcttggc
gtaatcatggcatagctgtttcctgtgtgaaattgttatccgctcacaattccacacaacatacagaccggaagcataaagtgtaa
agcctggggtgcctaatgagtgagctaacacattaattgcgttgcgctcactgcccgtttccactgcatgacgtctccacaatt
aattaaccctgtcggctccagatctggcctccgcgcgggttttggcgcctccgcgggcgccccctcctcacggcagcgcgtgc
cacgtcagacgaagggcgcagcagcgtcctgatcctccgcgccgagcctcaggacagcggcccgtgctcataagactcggcctt
agaaccccagtatcagcagaaggacattttaggacgggacttgggtgactctagggcactggttttctttccagagagcggaaacagg
cgaggaagtagtcccttctcggcgattctcgggaggatctccgtggggcgggtgaacgccgatgattatataaggacgcgccggg
tgtggcacagctagttccgtcgcagccgggatttgggtcgcgggttcttgttggatcgtgtgatcgtcacttggtagtagcgg
gctgctgggctggccggggcttctgtggccgccgggcccgtcgggtgggacggaagcgtgtggagagaccgcaagggtgtagtctg
ggtccgcgagcaaggttgcctgaactgggggttggggggagcgcagcaaaatggcggctgttcccagcttgaatggaagacgct
tgtgagggcggctgtgaggtcgttgaacaaggtggggggcatggtggggcggcaagaacccaaggtcttgaggccttcgctaattgcg
ggaaagctcttattcgggtgagatgggctggggcaccatctggggaccctgacgtgaagtttgcactgactggagaactcggtttg
tcgtctgttgcggggcggcagttatggcgggtgccgttgggcagtgaccctgacctttgggagcgcgcgccctcgtcgtgtcgtga
cgtcacccttctgttggcttataatgcagggtggggccacctgccggtagggtgtcggtaggcttttctccgtcgcaggacgcagg

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)

gttcgggcctagggtaggctctcctgaatcgacaggcgcggacctctggtgaggggaggataaagtgaggcgtcagtttctttgggt
cggttttatgtacctatcttcttaagtagctgaagctccggttttgaactatgcgctcggggttggcgagtgtgttttgaagttt
tttaggcaccttttgaaatgtaatcatttgggtcaatatgtaattttcagtgtagactagtaaattgtccgctaaattctggcgt
ttttggctttttttagacgaagcttgggctgcaggtcgactctagagccaccatggactacaaagaccatgacgggtattataaa
gatcatgacatcgattacaaggatgacgatgacaagcacgggtccgcgggctgacgcattggacgattttgatctggatgctggga
agtgacgcccctgatgattttgaccttgacatgcttgggtcggatgccccttgatgactttgacctcgacatgctcggcagtgacgc
cttgatgatttcgacctggacatggttaaccccaagaagaagaggagggtgggcccgggaatggacaagaagtactccattgggctc
gccatcggcacaacacagcgtcggctgggcccgtcattacggacgagtacaaggtgccgagcaaaaaattcaaagttctgggcaatacc
gatcgccacagcataaagaagaacctcattggcgcccctctgttcgactccgggaaaccgccgaagccacgcggctcaaaagaaca
gcacggcgcagatataccgcagaaagaatcggatctgctacctgcaggagatctttagtaatgagatggctaaggtggatgactct
ttcttccataggctggaggagtcctttttgggtggaggaggataaaaagcacgagcggccaccaatctttggcaatatcgtggacgag
gtggcgtaccatgaaaagtacccaaccatataatcatctgaggaagaagctttagacagtagataaggctgacttgcggttgatc
tatctcgcgctggcgcatatgatcaaatctcggggacacttctcctcagggggacctgaaccagacaacagcagatgctgacaaa
ctctttatccaactggttcagacttacaatcagcttttcgaagagaaccgatcaacgcacccggagttgacgccaagcaatcttg
agcgttaggctgtccaaatcccggcggctcgaaaacctcctcgcacagctcccggggagaagaagaacggcctgtttggtaatctt
atcgccctgtcactcgggctgacccccaaactttaaatcctaacttcgacctggccgaagatgccaaagcttcaactgagcaagacacc
tacgatgatgatctcgacaatctgctggcccagatcggcgaccagtagcgacaccttttttggcggcaagaacctgtcgacgcc
attctgctgagtgatattctgcgagtgaacacgggatcaccaaagctccgctgagcgttagtatgatcaagcgtatgatgagcac
caccaagacttgactttgctgaaggcccttctcagacagcaactgctgagaagtacaaggaaatcttcttgatcagctctaaaaat
ggctacgccggatacattgacggcggagcaagccaggaggaaattttacaatattattaagccatcttggaaaaatggacggcacc
gaggagctgctggtaaagcttaacagagaagatctgttgcgcaaacagcgcactttcgacaatggaagcatccccaccagattcac
ctgggcgaactgcacgctatcctcagggcggcaagaggatcttaccctttttgaaagataacagggaaaagattgaaaaatctc
acatttcggataccctactatgtagccccctcgcccgggaaatccagatctcgggtggatgactcgcaatcagaagagaccatc
actccctggaacttcgaggaagctgtggataagggggcctctgcccagctctcctcagaaaggatgactaaccttgataaaaaatctg
cctaacgaaaaggtgttcttaaacactctctgctgtacgagtagcttccagtttataacgagctcaccaaggtcaaatacgtcaca
gaagggatgagaagccagcattctctgctgagagcagaagaagctatctgtggacctctcttcaagacgaaccggaaagttacc
gtgaaacagctcaaagaagactattcaaaaagattgaatgtttcactctgttgaaatcagcggagtggaggatcgttcaacgca
tccctgggaactatcacgatctcctgaaaatcattaaagacaaggacttccggacaatgaggagaacgaggacattcttgaggac
attgtctcacccttacgttgtttgaagataggagatgattgaagaacgcttgaaaacttacgctcctctctcagcacaagctc
atgaaacagctcaagaggcggcatatacaggatggggggcggctgtcaagaaaactgatcaatgggatccgagacaagcagagtgga
aagacaatcttgattttcttaagtcgatggatttgccaaccggaacttcatgcagttgatccatgatgactctctcacccttaag
gaggacatccagaagcacaagtttctggccagggggacagcttccacgagcacatcgctaactctgcaggtagcccagctatcaa
aaggaatactgcagaccgttaaggtcgtggatgaactcgtcaaagtaatgggaaggcataagcccgagaatactgttatcgagatg
gcccgagagaaccaactaccagaaggacagaagaacagtagggaaaggatgaagaggattgaagagggtataaaagaactgggg
tcccaaatcttaaggaacaccagttgaaaacaccagcttcagaatgagaagctctacctgtactacctgcagaacggcaggggac
atgtacgtggatcaggaactggacatcaatcggctctccgactacgacgtggatgccatcgtgcccagctctttctcaaatgat
tctattgataataaagtgttgacaagatccgataaaaaatagagggaagagtataacgtcccctcagaagaagttgtcaagaaaatg
aaaaattattggcggcagctgctgaacgccaactgatcacacaacggaagttcgataatctgactaaggctgaacgaggtggcctg
tctgagttggataaagccggcttcatcaaaaggcagcttgttgagacacgccagatcaccaagcagctggcccaaatctcagattca
cgcatgaacaccaagtagatgaaaatgacaaactgattcgagaggtgaaagttattactctgaagctaaagctggctcagattc
agaaaggactttcagttttataaggtgagagatcaacaattaccaccatgcgatgatgcttacctgaatgcagtggttaggcact

基因修饰细胞 (敲除、敲入、点突变) 基础实验服务 (动物实验、载体构建)

病毒包装 (慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒)

试剂 (常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒)



gcacttatcaaaaaatatcccaagcttgaatctgaatttgtttacggagactataaagtgtacgatgttaggaaaatgatcgcaaag
tctgagcaggaataggcaaggccaccgctaagtacttcttttacagcaatattatgaatTTTTTcaagaccgagattacactggcc
aatggagagattcggaagcaccacttatcgaacaacacggagaaacaggagaaaatcgtgtgggacaagggtagggtttcgcgaca
gtccggaaggtcctgtccatgccgcaggtgaacatcgttaaaaagaccgaagtacagaccggaggcttctccaaggaaagtatcctc
ccgaaaaggaacagcgcacaagctgatcgcacgcaaaaaagattgggacccaagaaatagcggcgattcgtattctctacagtcgct
tacagtgtactggttgtggccaaagtggagaaaggggaagtctaaaaaaccaaaagcgtcaaggaaactgctgggcatcacaatcatg
gagcgatcaagcttcgaaaaaacccatcgactttctcgaggcgaaaggataaaagaggtaaaaaagacctcatcattaagctt
cccaagtactctctctttgagcttgaaaacggccggaacgaatgctcgcctagtgcgggcgagctgcagaaaggtaacgagctggca
ctgccctctaaatacgttaatttcttctgtatctggccagccactatgaaaagctcaaagggtctccgaagataatgagcagaagcag
ctgttctgtggaacaacacaacactaccttgatgagatcatcgagcaaaataagcgaattctccaaaagagtgatcctcgcgcagcgt
aacctcgataaggtgctttctgcttacaataagcacaggataagccccatcaggggagcaggcagaaaacattatccacttgtttact
ctgaccaacttggcgcgctcgcagccttcaagtacttcgacaccacatagacagaaagcggtagacctctacaaggaggtcctg
gagccacactgatcattcatgtaattacggggctctatgaaacaagaatcgacctctctcagctcggtaggagacagcagggtgac
ccaagaagaagaggaaggtggctagccgcgccgacgcctggacgatttcgatctcgacatgctgggttctgatgccctcgatgac
tttgacctggatatgttgggaagcgcacattggatgactttgatctggacatgctcggctccgatgctctggacgatttcgatctc
gatatgttaatccttagcaggggagaggaagtcttctaactgcggtagcgtggaggagaatccggccctggtaccgtgagcaag
ggcgaggagctgttcaccgggtgggtgccatcctggctgagctggacggcgacgtaaacggccacaagttcagcgtgtccggcgag
ggcgaggggcagtcaccctacggcaagctgacctgaagttcatctgcaccaccggcaagctgcccgtgccctggcccacctcgtg
accacctgacctacggcgtgagtgcttcagccgctaccccgaccacatgaagcagcagcacttcttcaagtcgccatgccgaa
ggctacgtccaggagcgcaccatcttctcaaggacgacggcaactacaagaccgcgccgaggtgaagttcagggcgacaccctg
gtgaaccgcatcgagctgaaggcatcgacttcaaggaggacggcaacatcctggggcacaagctggagtacaacacaacagccac
aacgtctatcatggccgacaagcagaagaacggcatcaaggtgaactcaagatccgccacaacatcgaggacggcagcgtgacg
ctcgcgcgaccactaccagcagaacacccccatcggcgacggccccgtgctgctgcccgacaaccactacctgagcaccagtcgcc
ctgagcaaaagacccaacgagaagcgcgatcacatggtcctgctggagttcgtgaccgcccgggatcactctcggcatggacgag
ctgtacaagaccggttgataatagataacttctgtatagcatacattatacgaagtatgaattcagatatcaagcttatcgataatca
acctctggattacaaaatttgtgaaagattgactggatcttctaactatgttgcctttttacgctatgtggatacgtgctttaat
gcctttgtatcatgctattgcttcccgtatggctttcattttctcctccttgataaaatcctgggtgctgtctctttatgaggagtt
gtggcccgttgtcaggcaacgtggcgtggtgtgcactgtgtttgctgacgcaacccccactggttggggcattgccaccacctgtca
gctcctttccgggactttcgtttccccctccctattgccacggcggaactcctcgcgcctgacctgcccgtgctggacaggggc
tcggctgttgggcaactgacaattcctggtgttgcgggaaatcctccttcttggctgctcgcctgtgttccacctggat
tctgcgcgggacgtccttctgctacgtccctcggccctcaatccagcggaccttcttcccggcctgctgcccgtctgcccgc
tcttccgctcttcgcttccgctcagacgagtcggatctcctttgggcgcctccccgcctcgataaccgtcgacctcgagacct
agaaaaacatggagcaatcaaaagtagcaatacagcagctaccaatgctgattgtgcctggctagaagcacaagaggaggagggt
gggttttcagtcacacctcaggtacctttaagaccaatgacttacaaggcagctgtagatcttagccactttttaaagaaaagg
gggactggaagggttaattcactccaacgaagacaagataccttgatctgtggatctaccacacacaaggctacttcccgtattg
gcagaactacacaccagggccaggatcagatatccactgacctttggatgggtgctacaagcagtagtaccagttgagcaagagaaggt
agaagaagccaatgaaggagagaacaccgcttggttacacctgtgagcctgcatgggatggatgaccggagagagaagtagtaga
gtggaggtttgacagccgcttagcatttcatcagatggcccagagctgcatccggactgtactgggtctctctggttagaccagat
ctgagcctgggagctctctggctaaactaggaaccactgcttaagcctcaataaagcttgccctgagtgcttcaagtagtggtgc
ccgtctgttgtgtgactctggttaactagagatccctcagaccttttagtcagtggtgaaaatctctagcagggcccgtttaaccc
gctgatcagcctcgactgtgccttctagttgccagccatctgttgtttgccccccccgctccttcttgacctggaaggtgcca

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)

ctcccactgtcctttcctaataaaaatgaggaaattgcatcgcattgtctgagtaggtgtcattctattctggggggtgggggtggggc
aggacagcaagggggaggattgggaagacaatagcaggcatgctggggatgcggtgggctctatggcttctgaggcggaaagaacca
gctggggctctaggggtatccccacgcgccctgtagcggcgcattaagcgcggcgggtgtggtggttacgcgcagcgtgaccgcta
cacttgccagegccctagcggccgctcctttcgtttcttcccttcttctcgcacgttcgccgctttccccgtaagctctaa
atcgggggctccctttagggttccgatttagtgctttacggcacctcgaccccaaaaaacttgattagggtgatggttcacgtagt
ggccatcgccctgatagacggtttttgcctttgacgttgagtcacgttctttaatagtgactcttgttccaaactggaacaa
cactcaaccctatctcggctctattcttttgattataagggttttgcgatttcggcctattggttaaaaaatgagctgatttaac
aaaaatthaacgcgaattaattctgtggaatgtgtgctcagttagggtgtggaaagtccccaggctccccagcaggcagaagtatgca
aagcatgcatctcaattagtcagcaaccaggtgtgaaagtccccaggctccccagcaggcagaagtatgcaagcatgcatctcaa
ttagtcagcaaccatagtcggcccttaactccgccatcccgcccttaactccgccagttccgccattctccgccccatggctg
actaatttttttattatgacagggccgaggccctctgcctctgagctattccagaagtagtgaggaggctttttggaggcct
aggcttttgcaaaaagctccccgggagcttgtatatacattttcggatctgatcagcacgtgtgacaattaatcatcggcatagtat
atcggcatagtataatagcaagggtgaggaactaaaccatggccaagttgaccagtgccgttccgggtgctcaccgcgcgcgacgtc
gccggagcggctcaggttctggaccgaccggctcgggttctccgggacttctgtggaggacgacttcgccggtgtggtccgggacgac
gtgaccctgttcatcagcgcgggtccaggaccaggtggtgccggacaacacctggcctgggtgtgggtgcccggcctggacgagctg
tacgccgagtggtcggaggtcgtgtccacgaacttccgggacgctcggggccggccatgaccgagatcggcgagcagccgtggggg
cgggagttcccttgcgcgaccggccggcaactgcgtgcacttctgtggccgaggagcaggactgacacgtgctacgagatttcgat
tccaccgccccttctatgaaaggttgggcttccggaatcgttttccgggacgcccggctggatgatcctccagcgcggggatctcatg
ctggagttcttcccccacccaacttgtttattgacgttataatggttacaataaagcaatagcatcacaatttcacaataaa
gcatttttttactgcattctagttgtggtttgtccaaactcatcaatgtatcttatcatgtctgtataaccgtcgacctctagctag
agcttggcgtaatcatggtcatagctgtttcctgtgtgaaattgttatccgctcacaattccacacaacatacagccggaagcata
aagtgtaaagcctgggggtgcctaatgagtgagctaaactcacaattaattgcgttgcgctcactgcccgtttccagtcgggaaacctg
tcgtgccagctgcattaatgaatcgccaacgcgcggggagaggcggtttgcgtattgggcgctcttccgcttctcgtcactgac
tcgctgcgctcggctcgttcggctcggcgagcggatcagctcactcaaggcggtaatacggttatccacagaatcaggggataac
gcaggaagaacatgtgagcaaaagccagcaaaagccaggaaccgtaaaaaggccgcttgcgtggcgttttccataggctccgc
ccccctgacgagcatcacaataatgcagcctcaagtcagaggtggcgaaccggacaggaactataaagataaccaggcgtttccccct
ggaagctccctcgtgcgctctcctgttccgacctgcccgttaccggatacctgtccgcctttctccctcgggaagcgtggcgtt
tctcatagctcaccgctgtaggtatctcagttcgggtgtaggtcgttcgctccaagctgggctgtgtgcaacacccccgttcagccc
gaccgctgcgcttaccggtaactatcgtcttgagccaaccggtaagacagacttatcgccactggcagcagccactggtaac
aggattagcagagcaggtatgtagcgggtgctacagagttcttgaagtgggtggcctaactacggctacactagaagaacagttatt
ggtatctgcgctcgtcgaagccagttaccttccgaaaaagagttggtagctcttgatccggcaacaaaccaccgctggtagcgg
ggtttttttgttgaagcagcagattacgcgcagaaaaaaggatctcaagaagatcctttgatcttttctacggggtctgacgct
cagtggaacgaaaactcagcttaagggttttggctcagagattcaaaaaggatcttaccatagatccttttaaataaaaatga
agttttaaataatctaaagtatatatgagtaaacctggctcagagttaccaatgcttaatcagtgaggcacctatctcagcgate
tgtctatttctgctcatcatagttgctgactccccgctgctgtagataactacgatacgggagggttaccatctggccccagtgct
gcaatgataccgcgagaccacgctcaccggctccagatttatcagcaataaaccagccagccggaagggccgagcgcagaagtgtt
cctgcaactttatccgctccatccagcttattaattgttgcgggaagctagagtaagtagttcgccagttaatagtttgcgcaac
gttgttgccattgctacaggcacgtggtgtcagctcgtcgtttggatggcttcatcagctccgggttcccaacgatcaaggcga
gttacatgatccccatgttgtgcaaaaagcgggttagctccttcggctcctccgatcgttgcagaagtaagttggccgcagtggtta
tcaactatggttatggcagcactgcataattctcttactgtcatgccatccgtaagatgcttttctgtgactggtgagttactcaacc
aagtcattctgagaatagtgatgcccgcaccgagttgctcttgcggcgtcaatacgggataataaccgcgccacatagcagaact

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)

ttaaaagtgtcatcattggaaaacgttcttcggggcgaaaactctcaaggatcttaccgctgttgagatccagttcgatgtaacc
actcgtgcaccaactgatcttcagcatcttttactttcaccagcgtttctgggtgagcaaaaacaggaaggcaaaatgccgaaaa
aaggaataagggcgacacggaaatgttgaatactcactcttctttttcaatattattgaagcatttatcagggtattgtctc
atgagcggatacatatttgaatgtatttagaaaaataacaaataggggtccgcgcacatttccccgaaaagtccacctgacgtc
gacggatcgggagatctcccgatcccctatgggtgcactctcagtacaatctgctctgatgccgatagttaagccagtatctgctcc
ctgcttgtgtgttgagggtcgtgagtagtgcgcgagcaaaatttaagctacaacaaggcaaggcttgaccgacaattgcatgaaga
atctgcttagggtaggcgttttgcgctgcttcgcgatgtacgggccagatatacgcgtt



GENECARER 关注基恩科公众号获取更多资讯

- Website www.genecarer.com
- Service hotline 029-84613682

[基因修饰细胞 \(敲除、敲入、点突变\)](#) [基础实验服务 \(动物实验、载体构建\)](#)

[病毒包装 \(慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒\)](#)

[试剂 \(常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒\)](#)



基因修饰细胞 (敲除、敲入、点突变) 基础实验服务 (动物实验、载体构建)

病毒包装 (慢病毒、非整合慢病毒、腺病毒、腺相关病毒、病毒样颗粒蛋白、脂质体纳米颗粒)

试剂 (常规试剂、感受态、基因敲除敲入点突变试剂盒、滴度检测试剂盒)