

## Publications for VA-C113 (ClonExpress MultiS One Step Cloning Kit)

Int J Mol Sci | Jun 11, 2022 | PubMed ID: 35742990 | Read Article

### Ectopic Expression of Executor Gene Xa23 Enhances Resistance to Both Bacterial and Fungal Diseases in Rice

Zhiyuan Ji, Hongda Sun, ..., Kaijun Zhao

1x

#### Article Snippet

"The upstream (~1299 bp) and downstream (~940 bp) fragments of Xa23 were amplified from CBB23 gDNA, and the 17 bp nucleotide sequence of EBETal2g was inserted into the native promoter of Xa23 through Gibson assembly method (C113-01, Vazyme, Nanjing, China) to generate Xa23p1.0 (.). Then, Xa23p1.0 was ligated into pYLAC380H and introduced into Nipponbare ..." ([More...](#))

#### Figure Legend

"Ectopic expression of Xa23 enhances resistance to multiple rice diseases. ( a ..." ([More...](#))

Front Plant Sci | Apr 28, 2022 | Read Article

### CsbZIP2-miR9748-CsNPF4.4 Module Mediates High Temperature Tolerance of Cucumber Through Jasmonic Acid Pathway

Lan Li, Guangling Chen, ..., Jin Sun

1x

#### Article Snippet

"... II One Step Cloning Kit (Vazyme, Nanjing, China) to obtain 35S :: CsaV3\_5G039430-GUS vector.. For mutation 6 bases of miR9748 binding sites in CsaV3\_5G039430, the CDS was amplified and inserted into pBI121 vector using the ClonExpress MultiS One Step Cloning Kit (Vazyme, Nanjing, China) to obtain 35S :: CsaV3\_5G039430M-GUS vector.. The recombinant plasmids were transformed into A. tumefaciens strain EHA105, and transiently transformed into ..." ([More...](#))

#### Figure Legend

"... is from predicted transcriptional start sites. (B) Yeast one-hybrid assay showing the binding of CsbZIP2 to MIR9748" ([More...](#))

Nat Commun | Aug 25, 2022 | Read Article

### **New** Specificity of TGF- $\beta$ 1 signal designated by LRRC33 and integrin $\alpha$ V $\beta$ 8

Zelin Duan, Xuezhen Lin, ..., Zhe Zhang

"... involved in complex formation with LRRC33 and GARP, thus N-terminal tagging is not optimal).. Mutants were generated by two-step PCR using PrimeSTAR<sup>®</sup> HS DNA Polymerase (Takara, R044A) and cloned into Top10 Escherichia coli competent cells (Tsingke, TSC-C12) using ClonExpress MultiS One Step Cloning Kit (Vazyme, C113-02).. All mutations were validated by DNA sequencing." ([More...](#))

Viruses | Aug 18, 2022 | Read Article

### **New** Development of a Nucleocapsid Protein-Based Blocking ELISA for the Detection of Porcine Deltacoronavirus Antibodies

Wenlong Wang, Yongning Zhang, Hanchun Yang

"... 1.5% (w /v) agarose gel using an OMEGA Gel Extraction Kit (Norcross, GA, USA).. The recovered amplicon was then cloned into the prokaryotic expression vector pET-28a (+) between the BamH I and Xho I sites via homologous recombination using the ClonExpress MultiS One Step Cloning Kit (Vazyme, Nanjing, China).. The constructed recombinant plasmid was designated pET-28a-PDCoV-N after identification via Sanger sequencing (data not ..." ([More...](#))

bioRxiv | Aug 13, 2022 | Read Article

### **Engineering precise adenine base editor with infinitesimal rates of bystander mutations and off-target editing**

Chen Liang, Zhang Shun

**"PrePrint:** PCR was performed using KOD-Plus-Neo DNA Polymerase (Toyobo, code no. KOD-401).. Serial ABE plasmids generated in this article were constructed using **ClonExpress MultiS One Step Cloning Kit (Vazyme)**. sgRNA expression plasmids were constructed as described previously , .. Briefly, oligonucleotides listed in Supplementary Table 1 were denatured at 95 °C for 5 ..." ([More...](#))

bioRxiv | Aug 12, 2022 | Read Article

### **Systematic characterization of chromodomain proteins reveals an H3K9me1/2 reader regulating aging in C. elegans**

Hou Xinhao, Xu Mingjing

**"PrePrint:** .. was PCR-amplified from PCFJ151 using the primers 5'- tgtgaaattgttatccgctgg -3' and 5'- caCACGTGctggcgctacc -3'.. Fragments and the vector were fused using a **ClonExpress MultiS One Step Cloning Kit (Vazyme C113-02, Nanjing)**.. Chromodomain protein transgenes were integrated into the C. elegans genome locus of each gene ..." ([More...](#))

Front Cell Dev Biol | Aug 8, 2022 | Read Article

### **A One-step strategy to target essential factors with auxin-inducible degron system in mouse embryonic stem cells**

Jingsheng Li, Chunhong Dai, ..., Wensheng Zhang

"... minilAA7) and eGFP were cloned into pNFN plasmid to generate pL-mAID-eGFP-NeoR and pL-minilAA7-eGFP-NeoR vectors.. Homology arms of targeting vectors were amplified by PCR using mouse genomic DNA as template, and assembled to both sides of mAID-eGFP-NeoR or minilAA7-eGFP-NeoR cassette by **ClonExpress MultiS one-step kit (Vazyme)** to generate mAID and minilAA7 donor vectors.. PCR primers and the length of the homology arms are listed in ." ([More...](#))

J Virol | Aug 4, 2022 | PubMed ID: 35924918 | Read Article

### **Structural Study of SARS-CoV-2 Antibodies Identifies a Broad-Spectrum Antibody That Neutralizes the Omicron Variant by Disassembling the Spike Trimer**

Wuqiang Zhan, Xiaolong Tian, ..., Lei Sun

"The gene encoding the SARS-CoV-2 S ectodomain (residues 1 to 1208, GenBank accession number MN908947) was synthesized (GenScript) and cloned into the mammalian expression construct pcDNA-3.1, with proline substitutions at residues 986 and 987, a GSAS substitution at the furin cleavage site (residues 682 to 685), a T4 fibrin trimerization motif, an HRV3C protease cleavage site, a Twin-Strep-Tag, and an 8×His tag at the C-terminal end being introduced simultaneously using the multiS **one-step cloning kit (Vazyme)**." ([More...](#))

Mol Ther Nucleic Acids | Aug 1, 2022 | PubMed ID: 35991312 | Read Article

### **Engineering an adenine base editor in human embryonic stem cells with minimal DNA and RNA off-target activities**

Zhenwu Zhang, Wanyu Tao, ..., Chao-Po Lin

"... and cloned into a piggyBac plasmid containing the 5' and 3' PiggyBac homology arms.. CE-8e-dV was constructed into piggyBac-TRE3Gs vector using **ClonExpress MultiS Cloning Kit (Vazyme)**.. SHhES8 cells were dissociated with Accutase (Thermo Fisher Scientific) and plated 50,000–75,000 cells/well in ..." ([More...](#))

J Appl Microbiol | Jul 31, 2022 | PubMed ID: 35858677 | Read Article

### **A SARS-Co V-2 oral vaccine development strategy based on the attenuated Salmonella type III secretion system) A SARS-Co V-2 oral vaccine development strategy based on the attenuated Salmonella type III secretion system**

Leyang Wu, Lin Li, ..., Zichun Hua

"... preserved in our laboratory, was inserted with the AT element as a vector template.. The above corresponding fragments were assembled by **homologous recombination** (Vazyme, C113-01/02, China), and the correctness of the plasmid was verified." ([More...](#))

bioRxiv | Jul 30, 2022 | Read Article

### **Programmable acetylation modification of bacterial proteins by a Cas12a-guided acetyltransferase**

Liu Yanqiang, Zuo Ni

**"PrePrint:** .. Neo and KOD FX DNA polymerase (Toyobo, Osaka, Japan) were used for PCR amplification.. The assembly of multiple DNA segments for plasmid construction was performed using the **ClonExpress MultiS One Step Cloning Kit (Vazyme Biotech Co., Ltd., Nanjing, China)**.. The restriction enzymes and ligase used in plasmid construction were purchased from Thermo Fisher ..." ([More...](#))

Front Microbiol | Jul 27, 2022 | PubMed ID: 35966691 | Read Article

### **The heat shock protein 20 gene editing suppresses mycelial growth of Botryosphaeria dothidea and decreases its pathogenicity to postharvest apple fruits**

Yonghong Huang, Junping Liu, ..., Yanxin Duan

"... full-length coding sequences (CDS) of BdHsp20 with the following primers: F: 5'-tgatacatatgccctgcacATGTTCGATGTTCCCGCG-3', R: 5'-ccttgctcaccatggatccTTACTCGATGTTGATCCTGCG-3'.. Next, the expression vector PRI101 was double-digested with restriction enzymes BamH I and Sal I, followed by ligation with the previously amplified BdHsp20 CDS using a **CloneExpression® MultiS One Step Cloning Kit (Vazyme Biotech, Nanjing, CN)**.. The recombinant plasmid was designated as PRI101-BdHsp20 , which was transformed into the  $\Delta$ BdHsp20 ..." ([More...](#))

Nat Commun | Jul 25, 2022 | PubMed ID: 35879296 | Read Article

### **Phenylalanine impairs insulin signaling and inhibits glucose uptake through modification of IR $\beta$**

Qian Zhou, Wan-Wan Sun, ..., Shi-Min Zhao

"... specificities by blot assay before employed for western blotting analysis.. Whole length human FARSA, FARSB, FARSA2, IR, SIRT1, SIRT2, SIRT6, and SIRT7 were amplified from HEK293T cDNA and cloned into the Xho I and EcoR I restriction sites of the pcDNA3.1-Flag/HA vector using **CloneExpress MultiS One Step Cloning Kit (#C113-02, Vazyme, Nanjing, China)**.. The IR mutants were generated by site-directed mutagenesis using the ..." ([More...](#))

Microb Cell Fact | Jul 18, 2022 | PubMed ID: 35843946 | Read Article

### **Efficient production of a cyclic dipeptide (cyclo-TA) using heterologous expression system of filamentous fungus Aspergillus oryzae**

Jianzhao Qi, Haiyan Han, ..., Chengwei Liu

"PCR reactions were performed with the KOD-Plus-Neo (TOYOBO).. PCR product was inserted into the appropriate restriction site KpnI using **ClonExpress MultiS One Step Cloning Kit (Vazyme**

Biotech Laboratories) to construct expression plasmids, pUSA2-CriC .. The expression vector was sequenced by Sangon BioTech using KSeq technology to obtain the ..." ([More...](#))

Synth Syst Biotechnol | Jul 16, 2022 | PubMed ID: 35949485 | Read Article

### **CgVeA, a light signaling responsive regulator, is involved in regulation of chaetoglobosin A biosynthesis and conidia development in *Chaetomium globosum***

Zhengran Wang, Shanshan Zhao, ..., Qian Yang

"... VeA -pSRR and VeA -pSRL, to amplify the target fragment.. The linearized vector pSL-VeA was digested with Kpn I and Stu I, and the fragment and plasmid were ligated according to the manufacturer's instructions (**ClonExpress MultiS One Step Cloning Kit (Vazyme)**) and transformed into *E. coli* DH5 $\alpha$  competent cells to obtain plasmid pS-VeA .. The scramble control plasmid was constructed in the same way ..." ([More...](#))

Int J Mol Sci | Jul 14, 2022 | PubMed ID: 35887106 | Read Article

### **B-Box Transcription Factor FaBBX22 Promotes Light-Induced Anthocyanin Accumulation in Strawberry (*Fragaria $\times$ ananassa*)**

Yongqiang Liu, Yuntian Ye, ..., Haoru Tang

"... strain Y2HGGold, and, respectively, coated in synthetically defined medium (SD/-Trp-Leu and SD/-Trp-Leu-Ade-His/AbA/X- $\alpha$ -gal) for observation.. The point mutation constructs, FaBBX22-D20A, FaBBX22-D70A and FaBBX22-D79A, were generated with **ClonExpress MultiS One Step Cloning Kit (Vazyme, Nanjing, China)**.. The fragments of FaBBX22 containing D20A, D70A or D79A mutations were amplified using the ..." ([More...](#))

Int J Mol Sci | Jul 3, 2022 | PubMed ID: 35806414 | Read Article

### **Genome-Wide Identification of the GRAS Family Genes in *Melilotus albus* and Expression Analysis under Various Tissues and Abiotic Stresses**

Shengsheng Wang, Zhen Duan, ..., Jiyu Zhang

"... 2- $\Delta\Delta$ CT method [ ], and the experiment was set up for 3 biological repetitions.. The full-length coding sequences of MaGRAS12, MaGRAS33 and MaGRAS34 were amplified using the cDNA as the template, and **ClonExpress<sup>®</sup> MultiS One Step Cloning Kit (Vazyme Biotech Co., Ltd., Nanjing, China)** was used to connect the pYES2 expression vector.. Specific amplification primers used in this experiment are listed in ." ([More...](#))

Nat Commun | Jul 2, 2022 | PubMed ID: 35780140 | Read Article

### **Humidity response in *Drosophila* olfactory sensory neurons requires the mechanosensitive channel TMEM63**

Songling Li, Bingxue Li, ..., Zhiqiang Yan

"Primers for 3' homology arm amplification: 5'-ACTTTACACCGGGCACCTACC-3' and 5'-TTGCCTTGCTGTTATCCTCCTG-3'.. To generate the knock out targeting vector, the 5' arm and 3' arm flanking an attP-3P3-RFP-loxP cassette were cloned into pBSK+ vectors using a **MultiS One Step Cloning Kit (Vazyme)**.. The sgRNA sequences were as follows: sgRNA1: 5'-AAATAAGTGAATGCGACGAA-3'; sgRNA2: 5'-GTTCTGGCCTCCTGCACAG-3'." ([More...](#))

Microorganisms | Jul 1, 2022 | PubMed ID: 35889057 | Read Article

### **Transcriptomic Analysis Reveals the Role of tmRNA on Biofilm Formation in *Bacillus subtilis***

Shanshan Xu, Qianqian Cao, ..., Ying Xu

"... into the target host strains as described earlier [ ]. In addition, to overexpress genes, we subcloned the fusion of a strong promoter pG and gene of interest in the pNW33N plasmid using the **ClonExpress® MultiS One Step Cloning Kit** (Vazyme Biotech Co., Ltd., Nanjing, China), according to the manufacturer's instructions." ([More...](#))

Viruses | Jun 29, 2022 | PubMed ID: 35891408 | [Read Article](#)

### **Molecular Characterization of a Novel Polerovirus Infecting Soybean in China**

Tengzhi Xu, Lei Lei, ..., Meng-Ao Jia

"... software was used for the recombination events analyses among the distinct poleroviruses [ ]. For construction of the infectious clone, four fragments covering the SbCLRV full-length genomic RNA were amplified and inserted into the pCass-RZ binary vector using the **ClonExpress MultiS One Step Cloning Kit** (Vazyme, Nanjing, China).. Four primer pairs ( ) with homology arms were designed through Vazyme CE design ..." ([More...](#))