

Publications for VA-C214 (Mut Express II Fast Mutagenesis Kit V2)

Cell Death Discov | May 21, 2021 | PubMed ID: 34021128 | Read Article
SPOP-PTEN-SUFU axis promotes progression of clear cell renal cell carcinoma via activating SHH and WNT pathway

Bo'ang Han, Zhen Sun, ..., Chen Liu

1x

Article Snippet

"... and SUFU were cloned into pRK5 vector, according to the manufacturer's instructions (Vazyme, C112-01).. Flag-tagged SPOP-Y87C, SPOP-W131G, Myc-tagged CUL3-Y62G, and **CUL3-K711S** were generated, according to the manufacturer's protocols (**Vazyme, C214-01**).. Flag-tagged SPOP fragments (MATH, BTB, and Δ 3-box) were amplified by PCR, using pRK5-Flag-SPOP as ..." ([More...](#))

Figure Legend

"... co-expressing SPOP and wild-type CUL3 or Y62G and **K711S** mutants by western blot analysis. * P " ([More...](#))

Nat Commun | Aug 24, 2022 | PubMed ID: 36002443 | Read Article

New **Rational design of a sensitivity-enhanced tracer for discovering efficient APC-Asef inhibitors**

Jie Zhong, Yuegui Guo, ..., Jian Zhang

"... gene in the pcDNA 3.1 (+) vector between the XhoI and NotI restriction sites.. Site-directed mutations were generated by **Mut Express II fast mutagenesis kit (Vazyme; C214)**.. The DNA encoding APC (303-739), APC (407-751), and site-directed mutants (W593A, N641A) were cloned ..." ([More...](#))

Int J Mol Sci | Aug 22, 2022 | Read Article

New **DNA Methylation Mediates IncRNA2919 Regulation of Hair Follicle Regeneration**

Bohao Zhao, Jiali Li, ..., Xinsheng Wu

"... referring to the JASPAR database (<http://jaspar.genereg.net/> (accessed on 1 November 2020)) []. The mutation type of TF binding sites was determined using **Mut Express II Fast Mutagenesis Kit V2 (Vazyme, Nanjing, China)**, and the primers used are listed in .. After cell transfection, luciferase activity was determined using the dual-luciferase reporter system (Promega, Madison, ..." ([More...](#))

Front Immunol | Aug 12, 2022 | Read Article

Ginsenoside Rg5 allosterically interacts with P2RY12 and ameliorates deep venous thrombosis by counteracting neutrophil NETosis and inflammatory response

Ziyu Chen, Gaorui Wang, ..., Xiaojun Wu

"Afterward, the cells were collected for further Western blot analysis.. The coding sequence of P2RY12 (Homo sapiens, Gene ID: 64805) was cloned into PCMV6 vector and site-directed mutated by using the **Mut Express II Fast Mutagenesis Kit (Vazyme, Nanjing, China)**.. The primers (Generay Biotech, Shanghai, China) were listed as follows: P2RY12_E188A mutation (forward, 5'- ..." ([More...](#))

Cells | Aug 6, 2022 | PubMed ID: 35954286 | Read Article

IncRNA2919 Suppresses Rabbit Dermal Papilla Cell Proliferation via trans-Regulatory Actions

Bohao Zhao, Jiali Li, ..., Xinsheng Wu

"... (accessed on 5 October 2020)) was used for predicting TF in the promoter region.. The TF binding sites were mutated using the **Mut Express II Fast Mutagenesis Kit V2 (Vazyme, Nanjing, China)**; the primers are listed in .. After cell transfection in 24-well plates (2.0 × 10⁵ cells/wells), the luciferase activity was ..." ([More...](#))

Front Genet | Aug 5, 2022 | PubMed ID: 35991565 | Read Article

Novel MEIOB variants cause primary ovarian insufficiency and non-obstructive azoospermia

Yurong Wang, Ling Liu, ..., Yue-Qiu Tan

"... the production of fusion proteins with FLAG at the N-terminus of MEIOB (MEIOB -WT).. The identified mutations (c.258_259del,c.1072_1073del, and c. C814T) were introduced into the MEIOB-WT plasmid vector by oligonucleotide-mediated mutagenesis using a **MutExpress II Fast Mutagenesis Kit (Vazyme, Guangzhou, China)**.. All expression constructs were sequenced to confirm the presence of the desired mutation and ..." ([More...](#))

Int J Mol Sci | Aug 3, 2022 | PubMed ID: 35955769 | Read Article

Distinct Roles of Estrogen Receptors in the Regulation of Vitellogenin Expression in Orange-Spotted Grouper (Epinephelus coioides)

Zhifeng Ye, Tingting Zhao, ..., Shuisheng Li

"... Biolabs, Ipswich, MA, USA) and then inserted into pGL4.10 vector (Promega, Madison, WI, USA).. Based on the deletion analysis, three transcription factor binding sites of era promoter were mutated using **Mut Express II Fast Mutagenesis Kits (Vazyme, Nanjing, China)** according to the manufacturer's protocol, and subsequently subcloned into pGL4.10 vector.. In addition, the open reading frame (ORF) of erβ2 was cloned and subcloned into ..." ([More...](#))

Cells | Aug 1, 2022 | PubMed ID: 35954207 | Read Article

ENO2 Promotes Colorectal Cancer Metastasis by Interacting with the LncRNA CYTOR and Activating YAP1-Induced EMT

Chunwei Lv, Hongfei Yu, ..., Honghe Zhang

"... partial ENO2 CDS with a 3×FLAG tag was cloned into the overexpression vector pCDH-CMV-MCS-EF1-puro.. The ENO2 mutants were designed and constructed by using the **Mut Express II Fast Mutagenesis Kit V2 (Vazyme, Nanjing, China)**.. A CCK8 kit (Boster, Wuhan, China, cat# AR1160) was used to determine relative cell ..." ([More...](#))

Nat Commun | Jul 30, 2022 | PubMed ID: 35907876 | Read Article

CDC-like kinase 4 deficiency contributes to pathological cardiac hypertrophy by modulating NEXN phosphorylation

Jian Huang, Luxin Wang, ..., Yi-Han Chen

"... cloned with a flag or a myc tag into the PCMV-C-HA plasmid (Beyotime, D2639).. Plasmids with the S437A or S437E mutation of mouse NEXN were generated using a **Mut Express II Fast Mutagenesis Kit V2 (Vazyme, C113)**.. The plasmid PGEX-6p-1 (GE Healthcare) was used for the cloning of GST fusion genes." ([More...](#))

Front Vet Sci | Jul 28, 2022 | PubMed ID: 35968001 | Read Article

A polymorphism in porcine miR-22 is associated with pork color

Han Wang, Zhonghao Shen, ..., Liming Hou

"The primer sequences were 5'-GAATTCGGGACCAAGTCAGTTCGG-3' and 5'-CTCGAGCCGACTTAGGCAATACAGG-3'.. The pcDNA3.1-miR-22 expression point mutant vector was generated using the **Mut Express II Fast Mutagenesis kit (Vazyme Biotech Co., Ltd., Nanjing, China)**.. The pcDNA3.1-ELOVL6 expression vector, ELOVL6 Psicheck-2 dual-luciferase reporter, and ELOVL6 point mutant vectors were ..." ([More...](#))

Reprod Biol Endocrinol | Jul 14, 2022 | PubMed ID: 35836265 | Read Article
A loss-of-function variant in SSFA2 causes male infertility with globozoospermia and failed oocyte activation

Gelin Huang, Xueguang Zhang, ..., Wenming Xu

"... Gibco) supplemented with 10% fetal bovine serum (FBS) (F8318, Sigma-Aldrich).. The expression plasmids encoding wild-type SSFA2 (pENTER-Flag-WT-SSFA2) were constructed by Vigene Biosciences (Jinan, China), and the mutant plasmids of SSFA2 were generated by the **Mut Express II Fast Mutagenesis Kit V2 (C214-01, Vazyme)** following the instructions.. The GSTM3 plasmids were synthesized and cloned into pCMV-MCS-Myc by ..." ([More...](#))

Int J Biol Sci | Jul 11, 2022 | PubMed ID: 35864967 | Read Article
SUMOylation of Nuclear γ -Actin by SUMO2 supports DNA Damage Repair against Myocardial Ischemia-Reperfusion Injury

Wei Zhao, Xiuying Zhang, ..., Jianhui Rong

"... with the restriction enzymes EcoR I and BamH I and cloned into the pre-cut pEGFP-N3 vector.. The SUMOylation sites (i.e., K68 and K284) in γ -actin were subsequently mutated with **Mut Express II Fast Mutagenesis Kit V2** from **Vazyme Biotech** (Shanghai, China) to yield plasmid construct pEGFP-ACTG (K68 R /K284 R).. Point mutation was performed using oligonucleotide sequences as follows: pEGFP-rACTG-K68R-Forward: 5'-ACCCTGAGGTACCCTATTGAGCACGGCATTGT-3', pEGFP-rACTG-K68R-Reverse: 5'-ATAGGGTACCTCAGGGTCAGAATACCCCTCTTG-3', pEGFP-rACTG-K284R-Forward: ..." ([More...](#))

Front Oncol | Jun 23, 2022 | PubMed ID: 35814393 | Read Article
Knockdown of hnRNPA1 Promotes NSCLC Metastasis and EMT by Regulating Alternative Splicing of LAS1L exon 9

Peng Han, Peng Cao, ..., Bo Zhao

"Then, homologous recombination was performed on the mutant site of the digested product.. All those reagents were from **Mut Express II Fast Mutagenesis Kit V2** originated from **Vazyme** Biological Company.. Then, 5 μ L of the recombinant plasmid was transformed into DH5 α competent cells and ..." ([More...](#))

Front Microbiol | Jun 23, 2022 | PubMed ID: 35814689 | Read Article
Deletion of the Loop Linking Two Domains of Exo-Inulinase InuAMN8 Diminished the Enzymatic Thermo-Halo-Alcohol Tolerance

Xiaolong Cen, Rui Zhang, ..., Zunxi Huang

"The commercial reagents include **Mut Express II Fast Mutagenesis Kit** for enzyme mutagenesis (**Vazyme Biotech**, Nanjing, China), isopropyl- β -D -1-thiogalactopyranoside for recombinant enzyme induction (Amresco, Solon, OH, United States), Escherichia coli BL21 (DE3) for recombinant enzyme expression (TransGen, Beijing, China), nickel-NTA agarose for recombinant enzyme purification (Qiagen, Valencia, CA, United States), dialysis bag with a

molecular weight cutoff of 44 kDa for removing the elution reagent of enzyme purification (Biosharp, ...) ([More...](#))

Front Cell Infect Microb | Jun 15, 2022 | PubMed ID: 35782136 | Read Article

Porcine Sapelovirus 3Cpro Inhibits the Production of Type I Interferon

Mengge Yin, Wei Wen, ..., Ping Qian

"Flag-MAVS and Flag-TRIF were kindly provided by Mei lin Jin (Hua Zhong Agricultural University).. Mutagenesis of PSV 3Cpro , MAVS, and TANK constructs was performed using overlap PCR (C214-01/02, Vazyme, Nanjing, China).. All constructs were identified through DNA sequencing." ([More...](#))

Nat Commun | Jun 14, 2022 | PubMed ID: 35701400 | Read Article

SpG and SpRY variants expand the CRISPR toolbox for genome editing in zebrafish

Fang Liang, Yu Zhang, ..., Wei Qin

"... a linker was synthesized by Sangon Biotech and subcloned into plasmid pT3TS-zSpRYCas9 (D10A nickase).. All mutations were generated using **Vazyme Mut Express II Fast Mutagenesis Kit V2** with primers listed in Supplementary Data .. All capped mRNAs were in vitro transcribed from an XbaI linearized template using T3 ..." ([More...](#))

Front Bioeng Biotechnol | Jun 13, 2022 | PubMed ID: 35769103 | Read Article

Identification of Two Novel Fluorinases From Amycolatopsis sp. CA-128772 and Methanosaeta sp. PtaU1.Bin055 and a Mutant With Improved Catalytic Efficiency With Native Substrate

Xinming Feng, Yujin Cao, ..., Mo Xian

"... (SAM), and potassium fluoride (KF) were obtained from commercial corporations (Aladdin, Sigma-Aldrich, Macklin, etc.).. The **Mut Express II Fast Mutagenesis Kit V2** was obtained from **Vazyme Biotech Co.** All the primers used were synthesized by Tsingke Biotechnology Co.. To identify novel fluorinases, the FIA from S. cattleya with NCBI access no. Q70GK9.1 ..." ([More...](#))

Cancer Sci | Jun 5, 2022 | PubMed ID: 35574707 | Read Article

HDAC5, negatively regulated by miR-148a-3p, promotes colon cancer cell migration, et al. HDAC5, negatively regulated by miR-148a-3p, promotes colon cancer cell migration

Chunli OuYang, Guang Shu, ..., Gang Yin

"Then, the wild-type (WT) HDAC5 3'UTR was cloned into the psi-CHECK™-2 vector.. HDAC5 3'UTR mutant plasmids (MUT) whose target binding sites were mutated were obtained using the **Mut Express-II Fast Mutagenesis Kit (Vazyme)**.. The sequences of the PCR primers are shown in ." ([More...](#))

Sci Adv | May 25, 2022 | PubMed ID: 35613274 | Read Article

FOXG1 sequentially orchestrates subtype specification of postmitotic cortical projection neurons

Junhua Liu, Mengjie Yang, ..., Chunjie Zhao

"... was performed with the ClonExpress II One Step Cloning Kit (Vazyme, catalog no. C112-01).. The reporters in which the FOXG1-binding motifs were deleted/point mutated were generated using the **Mut Express II Fast Mutagenesis Kit V2 (Vazyme, catalog no. C214-01)**.. Deletion/mutation information is presented in table S3." ([More...](#))

Front Immunol | May 23, 2022 | PubMed ID: 35677041 | Read Article

A Novel STAT3 Gain-of-Function Mutation in Fatal Infancy-Onset Interstitial Lung Disease

Mengyue Deng, Yue Li, ..., Huawei Mao

"... the BamHI and XhoI restriction sites using ClonExpress II One Step Cloning Kit (Vazyme).. The mutation was introduced using **Mut Express II Fast Mutagenesis Kit V2 (Vazyme)** following the manufacturer's instructions.. The mutagenesis primer pair was forward 5'-CCTGCATGCgCATGCATCCTGACCGGCCCTCGTC-3'; reverse 5'-AGGATGCATGcGCATGCAGGGTGCCGCTCCACCAC-3'." ([More...](#))