

Selected published papers using TIANGEN RT-PCR products

Topic	Journal	IF	Product	Institution
Molecular architecture of lineage allocation and tissue organization in early mouse embryo	Nature	43.07	FastQuant	Shanghai Institute of Biochemistry and Cell Biology, CAS
Genome-wide screening for functional long noncoding RNAs in human cells by Cas9 targeting of splice sites	Nature Biotechnology	31.864	RNA extraction/ QuantScript	Peking University
Programmable RNA editing by recruiting endogenous ADAR using engineered RNAs	Nature Biotechnology	31.864	RNA extraction/ QuantScript	Peking University
Slc6a8-Mediated Creatine Uptake and Accumulation Reprogram Macrophage Polarization via Regulating Cytokine Responses	Immunity	21.522	TIANScript	Tsinghua University
Tom20 senses iron-activated ROS signaling to promote melanoma cell pyroptosis	Cell Research	17.848	RNA extraction / FastQuant	Xiamen University
Distinct enhancer signatures in the mouse gastrula delineate progressive cell fate continuum during embryo development	Cell Research	17.848	FastQuant	Shanghai Institute of Biochemistry and Cell Biology, CAS
Derepression of co-silenced tumor suppressor genes by nanoparticle-loaded circular ssDNA reduces tumor malignancy	Science Translational Medicine	17.161	FaskKing	Nankai University
The Nuclear Matrix Protein SAFA Surveils Viral RNA and Facilitates Immunity by Activating Antiviral Enhancers and Super-enhancers	Cell Host & Microbe	15.753	RNA extraction/ FastKing	Peking University Health Science Center
Cryptococcus neoformans sexual reproduction is controlled by a quorum sensing peptide	Nature Microbiology	14.3	FastQuant	Institute of Microbiology, Chinese Academy of Sciences
Generation of self-compatible diploid potato by knockout of S-RNase	Nature Plants	13.297	RNA extraction/ /FastQuant	Yunnan Normal University
Fear extinction requires ASIC1a-dependent regulation of hippocampal-prefrontal correlates	Science Advances	12.804	FastQuant	Shanghai Jiao Tong University School of Medicine
TSPAN15 interacts with BTRC to promote oesophageal squamous cell carcinoma metastasis via activating NF- κ B signaling	Nature Communications	11.878	FaskKing	Sun Yat-sen University Cancer Center
Sensing of cytosolic LPS through caspy2 pyrin domain mediates noncanonical inflammasome activation in zebrafish	Nature Communications	11.878	RNA extraction/ FastKing/SuperReal	East China University of Science and Technology
Identifying and characterizing SCRaMbLEd synthetic yeast using ReSCuES	Nature Communications	11.878	FastQuant/ SuperReal	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences
Oncogenic potential of truncated RXR α during colitis-associated colorectal tumorigenesis by promoting IL-6-STAT3 signaling	Nature Communications	11.878	TIANScript	Xiamen University
An integrated genomic regulatory network of virulence-related transcriptional factors in Pseudomonas aeruginosa	Nature Communications	11.878	FastKing/ SuperReal	City University of Hong Kong
Adiponectin receptor PAQR-2 signaling senses low temperature to promote C. elegans longevity by regulating autophagy	Nature Communications	11.878	QuantScript	Yunnan University
Maintenance of translational elongation rate underlies the survival of Escherichia coli during oxidative stress	Nucleic Acids Research	11.147	RNA extraction/ FastKing	Central China Normal University
H2A.Z.1 crosstalk with H3K56-acetylation controls gliogenesis through the transcription of folate receptor	Nucleic Acids Research	11.147	DNA extraction/ FastQuant/SuperReal	Institute of Zoology, Chinese Academy of Sciences

Title	Journal	IF	Product used	Institution
A PIF7-CONSTANS-Centered Molecular Regulatory Network Underlying Shade-Accelerated Flowering	Molecular Plant	10.812	RNA extraction/ FastQuant	Fudan University
LORELEI-LIKE GPI-ANCHORED PROTEINS 2/3 Regulate Pollen Tube Growth as Chaperones and Coreceptors for ANXUR/BUPS Receptor Kinases in Arabidopsis	Molecular Plant	10.812	FastQuant	East China Normal University
A GmNINa-miR172c-NNC1 Regulatory Network Coordinates the Nodulation and Autoregulation of Nodulation Pathways in Soybean	Molecular Plant	10.812	RNA extraction/ FastKing	Huazhong Agricultural University
RECEPTOR-LIKE KINASE 902 Associates with and Phosphorylates BRASSINOSTEROID-SIGNALING KINASE1 to Regulate Plant Immunity	Molecular Plant	10.812	FastQuant	Fujian Agriculture and Forestry University
Paracrine and epigenetic control of CAF-induced metastasis: the role of HOTAIR stimulated by TGF- β 1 secretion	Molecular Cancer	10.679	FastQuant/ SuperReal	Tianjin Medical University
Reverse Evolution of a Classic Gene Network in Yeast Offers a Competitive Advantage	Current Biology	9.193	FastQuant	Institute of Microbiology, Chinese Academy of Sciences
Probing the Function of Metazoan Histones with a Systematic Library of H3 and H4 Mutants	Developmental Cell	9.19	RNA extraction/ FastQuant	ShanghaiTech University
Compression Generated by a 3D Supracellular Actomyosin Cortex Promotes Embryonic Stem Cell Colony Growth and Expression of Nanog and Oct4	Cell Systems	8.64	FastQuant/SuperReal	Tsinghua University
Organic cation transporter 3 (Oct3) is a distinct catecholamines clearance route in adipocytes mediating the beiging of white adipose tissue	PLOS Biology	8.386	DNA extraction/ FastKing	Tsinghua University
MORC2 regulates C/EBP α -mediated cell differentiation via sumoylation	Cell Death and Differentiation	8.086	RNA extraction/ FastKing	China Medical University
JOSD1 inhibits mitochondrial apoptotic signalling to drive acquired chemoresistance in gynaecological cancer by stabilizing MCL1	Cell Death and Differentiation	8.086	QuantScript	Peking Union Medical College
Circular RNA cESRP1 sensitises small cell lung cancer cells to chemotherapy by sponging miR-93-5p to inhibit TGF- β signalling	Cell Death and Differentiation	8.086	FastQuant/Talent	Zhejiang Hospital of Southern Medical University
The Schizophrenia Susceptibility Gene OPCML Regulates Spine Maturation and Cognitive Behaviors through Eph-Cofilin Signaling	Cell Reports	7.815	QuantScript	Peking University Sixth Hospital
Expanded Expression Landscape and Prioritization of Circular RNAs in Mammals	Cell Reports	7.815	FastKing	Beijing Institutes of Life Science, Chinese Academy of Sciences
From Hyper- to Hypoinsulinemia and Diabetes: Effect of KCNH6 on Insulin Secretion	Cell Reports	7.815	DNA extraction/RNA extraction/ FastQuant	Beijing Tongren Hospital, Capital Medical University

Selected published papers using TIANGEN real-time PCR products

Title	Journal	IF	Product used	Institution
Regulation of HIV-1 Gag-Pol Expression by Shiftless, an Inhibitor of Programmed -1 Ribosomal Frameshifting	Cell	36.216	SuperReal	Institute of Biophysics, Chinese Academy of Sciences
Harnessing a previously unidentified capability of bacterial allosteric transcription factors for sensing diverse small molecules in vitro	Science Advances	12.804	FastFire	Institute of Microbiology, Chinese Academy of Sciences
Drosophila Dicer-2 has an RNA interference-independent function that modulates Toll immune signaling	Science Advances	12.804	SuperReal	Wuhan University
A novel class of microRNA-recognition elements that function only within open reading frames	Nature Structural & Molecular Biology	12.109	RealUniversal	Wuhan University
Suppression of SRCAP chromatin remodelling complex and restriction of lymphoid lineage commitment by Pcid2	Nature Communications	11.878	RNA extraction / SuperReal	Institute of Biophysics, Chinese Academy of Sciences
Multiple truncated isoforms of MAVS prevent its spontaneous aggregation in antiviral innate immune signalling	Nature Communications	11.878	RNA extraction / SuperReal	Shanghai Institute of Biochemistry and Cell Biology, CAS
Ube2D3 and Ube2N are essential for RIG-I-mediated MAVS aggregation in antiviral innate immunity	Nature Communications	11.878	RNA extraction / SuperReal	Shanghai Institute of Biochemistry and Cell Biology, CAS
Sensing of cytosolic LPS through casp2 pyrin domain mediates noncanonical inflammasome activation in zebrafish	Nature Communications	11.878	RNA extraction / FastKing/SuperReal	East China University of Science and Technology
Inhibition of the mevalonate pathway enhances cancer cell oncolysis mediated by M1 virus	Nature Communications	11.878	SuperReal	Sun Yat-sen University Zhongshan School of Medicine
Identifying and characterizing SCRaMbLED synthetic yeast using ReSCuES	Nature Communications	11.878	FastQuant/ SuperReal	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences
Dop1 enhances conspecific olfactory attraction by inhibiting miR-9a maturation in locusts	Nature Communications	11.878	miRNA/ RealUniversal	Institute of Zoology, Chinese Academy of Sciences
DNA-PK inhibition synergizes with oncolytic virus M1 by inhibiting antiviral response and potentiating DNA damage	Nature Communications	11.878	SuperReal	Sun Yat-sen University Zhongshan School of Medicine
A mapping framework of competition-cooperation QTLs that drive community dynamics	Nature Communications	11.878	SuperReal	Beijing Forestry University
An integrated genomic regulatory network of virulence-related transcriptional factors in Pseudomonas aeruginosa	Nature Communications	11.878	FastKing/ SuperReal	City University of Hong Kong
Zika virus NS3 is a canonical RNA helicase stimulated by NS5 RNA polymerase	Nucleic Acids Research	11.147	One-Step qPCR	Peking Union Medical College, Chinese Academy of Medical Sciences
H2A.Z.1 crosstalk with H3K56-acetylation controls gliogenesis through the transcription of folate receptor	Nucleic Acids Research	11.147	DNA extraction/ FastQuant/ SuperReal	Institute of Zoology, Chinese Academy of Sciences
Quantitative proteomics reveals that long non-coding RNA MALAT1 interacts with DBC1 to regulate p53 acetylation	Nucleic Acids Research	11.147	FastQuant/ SuperReal	Tianjin Medical University
Brain-specific deletion of histone variant H2A.z results in cortical neurogenesis defects and neurodevelopmental disorder	Nucleic Acids Research	11.147	DNA extraction / SuperReal	Institute of Zoology, Chinese Academy of Sciences
LncRNA Inc-RI regulates homologous recombination repair of DNA double-strand breaks by stabilizing RAD51 mRNA as a competitive endogenous RNA	Nucleic Acids Research	11.147	SuperReal	Institute of Radiation Medicine, Chinese Academy of Medical Sciences
The RNA binding protein EWS is broadly involved in the regulation of pri-miRNA processing in mammalian cells	Nucleic Acids Research	11.147	SuperReal	Wuhan University

Title	Journal	IF	Product used	Institution
RNAe: an effective method for targeted protein translation enhancement by artificial non-coding RNA with SINEB2 repeat	Nucleic Acids Research	11.147	RNAprep/ FastQuant/ SuperReal	Tsinghua University
Hat Connects JAZ Repressors with the TPR2 Co-repressor to Suppress Jasmonate-Responsive Anthocyanin Accumulation	Molecular Plant	10.812	RNA extraction/ SuperReal	China Agricultural University
A GmNINA-miR172c-NNC1 Regulatory Network Coordinates the Nodulation and Autoregulation of Nodulation Pathways in Soybean	Molecular Plant	10.812	RNA extraction/ FastKing/ SuperReal	Huazhong Agricultural University
The Genome of <i>Artemisia annua</i> Provides Insight into the Evolution of Asteraceae Family and Artemisinin Biosynthesis	Molecular Plant	10.812	RNA extraction/ SuperReal	Shanghai Jiao Tong University
Robust Transcriptional Activation in Plants Using Multiplexed CRISPR-Act2.0 and mTALE-Act Systems	Molecular Plant	10.812	SuperReal	University of Electronic Science and Technology of China
Paracrine and epigenetic control of CAF-induced metastasis: the role of HOTAIR stimulated by TGF- β 1 secretion	Molecular Cancer	10.679	FastQuant/ SuperReal	Tianjin Medical University
Hormone and receptor interplay in the regulation of mosquito lipid metabolism	PNAS	9.661	FastQuant/ SuperReal	Institute of Zoology, Chinese Academy of Sciences
Selective replication of oncolytic virus M1 results in a bystander killing effect that is potentiated by Smac mimetics	PNAS	9.661	SuperReal	Sun Yat-sen University
Identification and characterization of alphavirus M1 as a selective oncolytic virus targeting ZAP-defective human cancers	PNAS	9.661	SuperReal	Sun Yat-sen University
Heterochromatin protects retinal pigment epithelium cells from oxidative damage by silencing p53 target genes	PNAS	9.661	RNA extraction / SuperReal	Zhongshan Ophthalmic Center, Sun Yat-Sen University
Compression Generated by a 3D Supracellular Actomyosin Cortex Promotes Embryonic Stem Cell Colony Growth and Expression of Nanog and Oct4	Cell Systems	8.64	FastQuant/ SuperReal	Tsinghua University
RNF20 controls astrocytic differentiation through epigenetic regulation of STAT3 in the developing brain	Cell Death and Differentiation	8.086	gDNA extraction/ RNAprep/FastQuant/ SuperReal	Institute of Zoology, Chinese Academy of Sciences
A negative feedback loop of ICER and NF- κ B regulates TLR signaling in innate immune responses	Cell Death and Differentiation	8.086	FastQuant/ SuperReal	10th People's Hospital of Tongji University
Long noncoding RNA lncAIS downregulation in mesenchymal stem cells is implicated in the pathogenesis of adolescent idiopathic scoliosis	Cell Death and Differentiation	8.086	SuperReal	Peking Union Medical College Hospital/Institute of Biophysics, Chinese Academy of Sciences
DC-SIGN-LEF1/TCF1-miR-185 feedback loop promotes colorectal cancer invasion and metastasis	Cell Death and Differentiation	8.086	miRNA/SuperReal	The Second Hospital of Dalian Medical University
Circular RNA cESRP1 sensitises small cell lung cancer cells to chemotherapy by sponging miR-93-5p to inhibit TGF- β signalling	Cell Death and Differentiation	8.086	FastQuant/Talent	Zhujiang Hospital of Southern Medical University
Tet3-Mediated DNA Demethylation Contributes to the Direct Conversion of Fibroblast to Functional Neuron	Cell Reports	7.815	gDNA extraction/ FastQuant/ SuperReal	Institute of Zoology, Chinese Academy of Sciences
The Anti-Warburg Effect Elicited by the cAMP-PGC1 α Pathway Drives Differentiation of Glioblastoma Cells into Astrocytes	Cell Reports	7.815	SuperReal	Sun Yat-sen University
Two B-Box Domain Proteins, BBX18 and BBX23, Interact with ELF3 and Regulate Thermomorphogenesis in Arabidopsis	Cell Reports	7.815	RNA extraction/ SuperReal Color	Fudan University
Zika Virus Infection in Hypothalamus Causes Hormone Deficiencies and Leads to Irreversible Growth Delay and Memory Impairment in Mice	Cell Reports	7.815	One-Step qPCR	Capital Medical University