



ELK Biotechnology Make Research Easier

Company Presentation

ELK Biotechnology

ELK Biotechnology co., Ltd. is located in Wuhan precision medicine industry base. Founded in 2018, it is a company specializing in life sciences and exemptions; A high-tech cattle enterprise that has not been researched. The company has a 6,000-square-meter laboratory, with an independent cell culture room and SPF animal room, specializing in morphopathology, cell soil physics, molecular biology, protein epidemiology, and the introduction and research and development of model animal cabinet products. The products include thousands of ELISA kits, more than 70 molecular biology products and more than 10,000 eggs and antibodies for use in science and minerals. Through unremitting efforts, our products have been sold to more than 80 countries.

Species **20+**



ELISA Kits



15000+

Antibodies

70+



Molecular products

5

Major technology platforms

80+

Exporting countries

6000m²

Laboratory

3000+

References

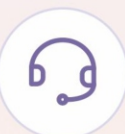
ELK Trends in SCI literature citation in recent years



ELK Biotechnology

Your partner in life science and immune research

Since its establishment, Kelu Bio has been guided by user needs, and has continued to provide high-quality products for the majority of scholars in the field of life science research, which has been integrated into the daily operation of the company, led by 30 master's and doctoral technical talents, with five characteristic technology platforms, independent research and development, insisting on innovation, multiple quality control, producing multi-index, high-performance products, and providing professional pre-sales and after-sales services.



1-2H

Respond and respond to questions in a timely manner



100%

of all students have a master's degree or above, and answer questions professionally



8H

to give a confirmation plan

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ELK Biotechnology

ELK Biotechnology

Molecular products

ELK Biotechnology co., Ltd.
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Molecular products

Nucleic acid extraction products

This series of nucleic acid extraction products adopts advanced spin column technology, and the series of products can be used for efficient purification of high-quality DNA/RNA in blood, tissue, cell, microorganism, plant samples and environmental samples, and also provides plasmid extraction and DNA product purification and gel recovery kits. It can meet the needs of diversified scenarios such as scientific research, epidemic prevention and control, and food safety testing.



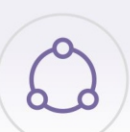
Safe and stable

Reagents do not need to be stored at low temperatures, reducing transportation and storage costs; It does not contain harmful substances such as phenol and chloroform to ensure the safety of experimenters.



High purity, high yield

The unique lysis buffer system and purification process effectively remove inhibitors, and the purity of extracted nucleic acid (A260/A280) is stable to 1.8-2.0, which is suitable for PCR, qPCR, NGS and other harsh downstream experiments.



Broad compatibility

Suitable for complex sample types such as whole blood, FFPE, buccal swabs, and viral culture mediums.

ELK Biotechnology Make Research Easier



Molecular products

Molecular detection reagents

Kelu's molecular products cover conventional PCR reagents, fluorescence quantitative PCR (qPCR) reverse transcription PCR (RT-PCR) and other full-scene reagents, which are suitable for basic scientific research, gene expression analysis, pathogen detection, transgenic detection and other multi-scenario needs.



ELK Biotechnology Make Research Easier



Superior amplification efficiency

Optimized enzymatic reaction system, with high-fidelity/hot-start DNA polymerase, even as low as 1 copy of template can be accurately captured, and the coefficient of variation of Ct value is <2% to ensure reliable data

Excellent anti-interference ability

Exclusive inhibitor-tolerant technology, which is directly compatible with crude samples (e.g., blood, saliva, plant lysates), reduces the purification step and shortens the experimental cycle.



Flexible adaptation, saving time and effort

The pre-mixed formula is ready to use and can be transported at room temperature; The reagents are compatible with mainstream brands of thermal cyclers (such as AB1, Bio-Rad, Roche, etc.).

Product Lists

PCR

| | | | |
|---------------------------------|-------|--|-------|
| dNTP Mix (PCR Grade) 10 mM each | EQ011 | Pfu DNA Polymerase | EQ008 |
| EntiLink™ PCR Master Mix | EQ004 | EntiLink™ PCR Master Mix(Red) | EQ027 |
| Taq DNA Polymerase | EQ005 | EnTurbo™ SYBR Green PCR SuperMix | EQ001 |
| Hot start Taq DNA Polymerase | EQ006 | EnTurbo™ SYBR Green PCR SuperMix (High ROK Premixed) | EQ013 |

qPCR

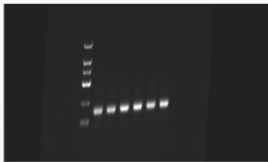
| ▼ Dye method | | EnTurbo™ SYBR Color qPCR SuperMix (Without ROX) | EQ035 |
|---|-------|---|-------|
| 50× ROX Reference Dye | EQ012 | EnTurbo™ SYBR Color qPCR SuperMix | EQ036 |
| ▼ Probe method | | | |
| 20× SYBR Green Dye | EQ021 | EnTurbo™ Probe qPCR SuperMix | EQ017 |
| EnTurbo™ SYBR Green PCR SuperMix(High ROX Premixed) | EQ013 | | |
| EnTurbo™ SYBR Color qPCR SuperMix (Low ROX Premixed) | EQ033 | ▼ ELISA Ktis | |
| EnTurbo™ SYBR Color qPCR SuperMix (High ROX Premixed) | EQ034 | Human Telomere Length Quantification qPCR Assay Kit | EQ022 |

RT-PCR

| | | | |
|---|-------|----------------------------|-------|
| EntiLink™ 1st Strand cDNA Synthesis Kit | EQ003 | RNA Stabilization Solution | EQ020 |
| RNase Inhibitor | EQ010 | Dnase I | EQ025 |

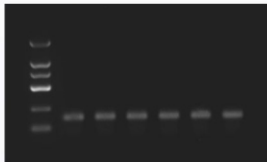
Product Display PCR DNA polymerase

Taq DNA Polymerase (EQ005)



Marker: DL2000 DNA Marker 0.5ug/50ul电泳体系
Lane 1 and 2: Rat muscle DNA 0.5ug/50ul电泳体系
Lane 3 and 4: Rat liver DNA 0.5ug/50ul电泳体系
Lane 5 and 6: Rat kidney DNA 0.5ug/50ul电泳体系
Primer: h-GAPDH

Hot start Taq DNA Polymerase (EQ006)



Marker:DL2000 DNA Marker 0.5ug/50ul电泳体系
Lane 1 and 2: Rat muscle DNA 0.5ug/50ul电泳体系
Lane 3 and 4: Rat liver DNA 0.5ug/50ul电泳体系
Lane 5 and 6: Rat kidney DNA 0.5ug/50ul电泳体系

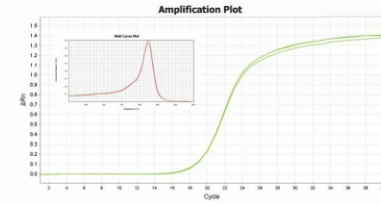
Features:

1. Different heat-resistant DNA polymerases are available.
2. Meet your needs in four aspects: fidelity, amplification efficiency, amplification length and amplification specificity.
3. It is suitable for DNA templates from multiple sources, amplifying DNA fragments of different lengths, and facilitating smooth follow-up experiments.



Product Display PCR

EnTurbo™ SYBR Green PCR SuperMix (EQ001)



Amplification conditions:
2xSYBR Green PCR Mix 5ul Template 2ul
PCR Forward Primer(10uM) 0.2ul 50x ROX Dye 0.2ul
PCR Reverse Primer(10uM) 0.2ul RNase-free ddH2O to10ul

Three-step amplification procedure:

| Stage | Number of cycles | Temperature | Time |
|------------------|------------------|-------------|--------|
| Pre-denaturation | 1× | 95℃ | 30 sec |
| Denaturation | 35-40 × | 95℃ | 5 sec |
| Anneal | | 50-60℃ | 30 sec |
| Extend | | 72℃ | 30 sec |

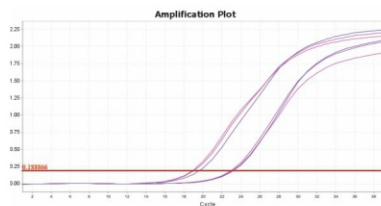
Melting Curves

Features:

1. Optimized, ready-to-use master mix for fast PCR reactions, savings50% of the experimental time.
2. Accurately detect the template of various input amounts, and the amplification is stable and the quantitative results are available!There is a high degree of repeatability.
3. Balanced K and NH ion ratios, as well as a separate ROXReference Dye package, for all real-time PCR instruments.

Product Display RT-PCR

EntiLink™ 1st Strand cDNA Synthesis Kit (EQ003)



| Temperature | Time |
|-------------|--------|
| 25℃ | 5 min |
| 42℃ | 30 min |
| 85℃ | 5 min |

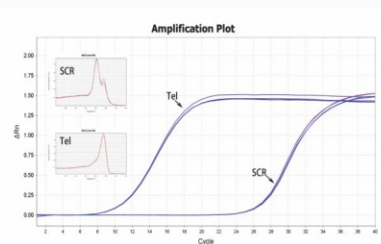
Reverse transcription was followed by amplification using the EQ001 kit.

Features:

1. Efficient synthesis of full-length, first-strand cDNA up to 10 kb.
2. It can withstand reaction temperatures up to 50°C.
3. Fully supply all the components required for the RT reaction.

Product Display qPCR ELISA Ktis

Human Telomere Length Quantification qPCR Assay Kit (EQ022)



Amplification conditions:
2x Mix 10ul
Primer stock solution (Telomere or SCR) 0.4ul
Genomic DNA Template (0.5-5ng/ul) 1ul
50x ROX Dye 0.4ul
RNase-free ddH2O to 20ul

Three-step amplification procedure:

| Stage | Number of cycles | Temperature | Time |
|------------------|------------------|-------------|--------|
| Pre-denaturation | 1× | 95℃ | 1 min |
| Denaturation | 35-40 × | 95℃ | 10 sec |
| Anneal | | 55℃ | 30 sec |
| Extend | | 72℃ | 45 sec |

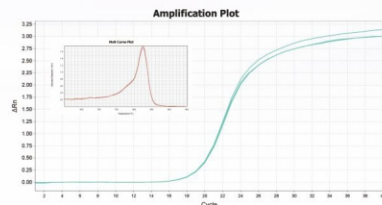
Melting Curves

Features:

1. Relative quantitative qPCR was used to directly compare the average telomere length of the sample, that is, the copy number of telomere repeats (Tel) was used to the copy number ratio (T/S) of the genomic single-copy gene (SCR) as the relative telomere length.
2. Tested to ensure efficient and reliable quantification and no non-specific amplification. The primers were electro-verified by amplification curve efficiency (E>98%, R2>0.99), melting curve analysis, and gel electrophoresis.
3. Widely adaptable, suitable for all mainstream real-time PCR instruments

Product Display qPCR

Dye method: EnTurbo™ SYBR Color qPCR SuperMix (EQ036)

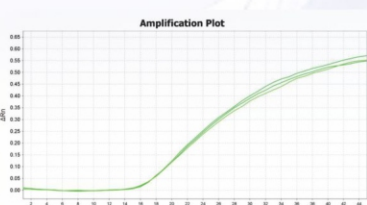


Amplification conditions:
2xSYBR Green PCR Mix 10ul Template 4ul
PCR Forward Primer(10uM) 0.4ul 50x ROX Dye 0.4ul
PCR Reverse Primer(10uM) 0.2ul RNase-free ddH2O to 20ul

Three-step amplification procedure:

| Stage | Number of cycles | Temperature | Time |
|------------------|------------------|-------------|--------|
| Pre-denaturation | 1× | 95℃ | 30 sec |
| Denaturation | 35-40 × | 95℃ | 5 sec |
| Anneal | | 50-60℃ | 30 sec |
| Extend | | 72℃ | 30 sec |

Probe method: EnTurbo™ Probe qPCR SuperMix (EQ017)



Amplification conditions:
2x Probe qPCR SuperMix 5ul Template 2ul
PCR Forward Primer(10uM) 0.2ul 50x ROX Dye 0.2ul
PCR Reverse Primer(10uM) 0.2ul RNase-free ddH2O to10ul

Two-step amplification procedure:

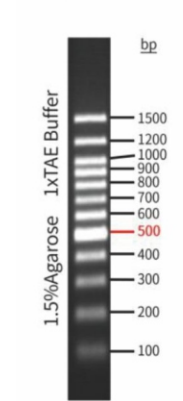
| Stage | Number of cycles | Temperature | Time |
|------------------|------------------|-------------|--------|
| Pre-denaturation | 1× | 95℃ | 30 sec |
| Denaturation | 35-40 × | 95℃ | 5 sec |
| Anneal / Extend | | 60℃ | 30 sec |

Features:

1. Accurately detect templates with various input amounts, stable amplification, and highly reproducible quantitative results.
2. Balanced ratio of K and NH4 ions to ensure high sensitivity and specificity.
3. Separate ROX Reference Dye package for all Real-time PCR instruments
4. Trace pipetting with dye-to-dye coloration reactions to reduce pipetting errors.

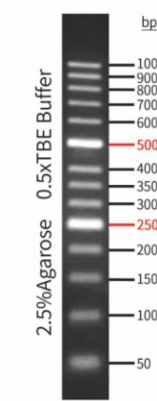
Product Display DNA Ladder

100bp DNA ladder



5ul/lane
7v/cm, 45min

50bp DNA ladder



5ul/lane
7v/cm, 50min

Features:

1. The band display is clear, sharp and non-diffuse, and supports a variety of electrophoresis systems such as agarose gel and polyacrylamide gel.
2. Batch consistency and stability: After strict quality control, the fragment size error is <5% to ensure thereproducibility of experimental data.
3. It can be stored for a long time, and there is no degradation at -20℃ for 2 years to avoid repeated freeze-thaw damage.