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## Arraystar™ Predesigned Primer Sets

Cat#: AS-NR-001-1-M  
Cat#: AS-NR-001H-1-M  
Cat#: AS-NR-001M-1-M  
Cat#: AS-NR-002-1-M  
Cat#: AS-NR-002M-1-M  
Cat#: AS-NR-004-1-M  
Cat#: AS-NR-004M-1-M

### Instruction Manual version 2.0

#### Product Description

Arraystar supplies pre-designed PCR primers for the accurate quantification of human and mouse tRNA in qPCR. The primers have been rigorously tested and validated experimentally across numerous culture cell lines and tissues.

#### Kit Components

Kit components	Amounts	Storage	Shipping
Arraystar Predesigned Primer Sets	200 reactions	-20°C	Blue ice or RT

Store at -20°C upon receipt. The contents are stable for at least 6 months.

#### Additional Required Materials

- Thermal cycler
- Real time qPCR instrument
- RNase-free 200 µl PCR tubes
- Pipettors and tips

#### Protocol

1. Reconstitute the qPCR Primer Mix with 240 Nuclease-free Water to a final

concentration of 10 µM.

**Note:** Store unused qPCR Primer Mix at -20°C

2. Mix the following components to prepare the qPCR Master Mix.

cDNA template	___ µL
qPCR Primer Mix	1.0 µL
SYBR Green Master Mix	5.0 µL
Nuclease-free Water	___ µL
Total volume	10.0 µL

3. Running Real-Time PCR Detection.

Cycles	Temperature	Time
1	95 °C	10 minutes
40	95 °C	10 seconds
	60 °C	1 minute
Melting curve analysis		