

**CERTIFICATE OF ANALYSIS**

<b>Product:</b>	TP Master Mix
<b>Catalog No:</b>	T601, T602, T603, T603xl
<b>Lot No:</b>	T601122022
<b>Date of Expiry:</b>	12/2022
<b>Composition:</b>	2x concentrated TP Master Mix contains: 150 mM Tris-HCl, pH 8.8 (25°C), 40 mM (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 0,4 M trehalóza, 2 M 1,2-propandiol, 0.02% Tween 20, 5 mM MgCl <sub>2</sub> , 400 µM dATP, 400 µM dCTP, 400 µM dGTP, 400 µM dTTP, Taq DNA polymerase (50 U/ml), stabilizers and additives.
<b>Supplied with:</b>	PCR Ultra H <sub>2</sub> O (Cat. No. P040)
<b>Storage temperature:</b>	For short terms (days) at 4°C ± 3°C. For long terms at -20 ± 5°C. Material can be repeatedly defrosted.
<b>Purity:</b>	Purity of Taq DNA polymerase is verified by SDS PAGE, only one band of 94 kDa is observed in Coomassie blue stained gel. Material is free of nucleases.
<b>Functional Test:</b>	The lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:

**Test conditions:**

Volume *	Reagent	Final concentration
12.5 µl	TP Master Mix	1x TP Master Mix (75 mM Tris-HCl, pH 8.8, 20 mM (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 0,2 M trehalóza, 1 M 1,2-propandiol, 0.01% Tween 20, 200 µM dATP, 200 µM dCTP, 200 µM dGTP, 200 µM dTTP, 2.5 U Taq DNA polymerase, stabilizers and additives)
0.5 µl	Forward primer	50 µM 5' primer 5'-ATGAACCCAGCCATCAGCG-3'
0.5 µl	Reverse primer	50 µM 3' primer 5'-GGGTAAGGACCTTGATATAGG-3'
1 µl	Template DNA	containing 80 ng of mouse genomic DNA
10.5 µl	PCR Ultra H <sub>2</sub> O	(to a final volume 25 µl)

**Cycling conditions:**

	Temperature	Time	Number of cycles
Initial denaturation	94°C	1 min	1
Denaturation	94°C	15 s	30
Annealing of primers	55°C	15 s	
Extension	72°C	1 min	
Final extension	72°C	7 min	1
Cooling	22°C		

**Result:** As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp

**FOR RESEARCH USE****APPROVED DATE:** 10.07.2020  
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