

## Thermo Scientific 1.1X PCR Master Mix w/ 1.5 mM MgCl<sub>2</sub>

Description:	The PCR Master Mix is a ready-to-use master mix. It is a convenient
	way of amplifying DNA fragments without the need to thaw individual
	components, reducing the risk of contamination and pipetting errors.
	The ThermoPrime Taq DNA Polymerase, dNTPs, reaction buffer and
	magnesium chloride are all present in the mix.

**Enzyme Source:** Thermus aquaticus

AssociatedThermoPrime has 5' to 3' polymerization and exonuclease activity butActivities:lacks 3' to 5' exonuclease activity (proofreading).

Kit Contents	Vial	Pack Size (cap color)		
	v lai	А	В	
	PCR Master Mix	2 x 1.8 ml (red)	20 x 1.8 ml (red)	

Master Mix:Each vial contains 1.8ml of a 1.1X working concentration PCR<br/>Master Mix sufficient for 80 x 25µl reactions. The final reaction 1X<br/>contains:

ThermoPrime Taq DNA Polymerase
Tris-HCl (pH 8.8 at 25°C)
$(NH_4)_2SO_4$
MgCl <sub>2</sub>
Tween <sup>®</sup> 20
each of dATP, dCTP, dGTP and dTTP

Storage<br/>Conditions:Store the master mix at -20°C until ready for use for up to 1 year.<br/>Avoid freeze thawing. The vial can be stored at 4°C for up to 1 month.<br/>Shipped on ice within the UK and on dry ice internationally and within<br/>the US.





Example of	Mix gently and spin down the master mix prior to use						
Protocol:			Volu	ime	Final	Concentration 1X	
	PCR Master Mix		22.5 µl 1X		1X		
	Primer forward (12.5 µM each)			1 μl* 0.5 μM		1*	
	Primer reverse (12.5 µM each)			1 μl* 0.5 μM		1*	
	Water (PCR Grade) DNA Template		va	riable			
			(	0.5 µl	0.5 – 125 ng		
	Total volume			25 µl			
	*Scale up or down the volume and concentration as appropriate						
Example of		Temp.		Time		Number of cycle	
program:	Initial Denaturation	95°C		2 mir	ı	1 cycle	
1 0	Denaturation	95°C	95°C		с	20 to 40	
	Annealing	50-65°	°C	30 se	с	30 to 40	
	Extension**	72°C		60 se	с	cycles	
	Final Extension	72°C	°C 5 m		ı	1 cycle	
	**Increase length of time in proportion to size of amplicon, <i>Taq</i> DNA Polymerase extends at approximately 1000 bp/min.						
Ordering	AB-0575/A	PCR Mast	er Mix			160 x 25µl rxns	
Information:	AB-0575/B	PCR Master Mix				1,600 x 25µl rxns	

Troubleshooting

For technical information or troubleshooting contact Thermo Scientific Genomics Tech Support:

	United States	Rest of World
Email	abgeneus.techservice@thermofisher.com	abgene.techsupport@thermofisher.com
Phone	+1 (800) 235-9880	+44 (0)1372 840410

Use of this product is covered by US Patent No. 6,127,155. The purchase of this product includes a limited, non-transferable immunity from suit under the foregoing patent claims for using only this amount of product for the purchaser's own internal research. No right under any other patent claim, no right to perform commercial services of any kind, including without limitation reporting the results of purchaser's activities for a fee or other commercial consideration, is conveyed expressly, by implication, or by estoppel. This product is for research use only. Diagnostic uses under Roche patents require a separate license from Roche. Further information on purchasing licenses may be obtained by contacting the Director of Licensing, Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California

Revised April, 2011. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.

Literature Code: AB-0575-v2-0411

## 2