

# IDTaq™ DNA Polymerase Kit

<b>Cat #</b>	IDL026K 250 U														
<b>Concentration</b>	1 µl contains 5 units														
<b>Description</b>	This is a thermostable DNA polymerase isolated from a strain of <i>Thermus</i> sp. It is designed for use in primer extension reactions.														
<b>Kit Contents</b>	<table> <tr> <td>IDTaq™ DNA Polymerase (5U/µl)</td> <td>250U</td> </tr> <tr> <td>10x Reaction Buffer (w 20mM MgCl<sub>2</sub>)</td> <td>1 ml</td> </tr> <tr> <td>10x MgCl<sub>2</sub> Free Reaction Buffer</td> <td>1 ml</td> </tr> <tr> <td>10mM dNTPs (2.5 mM each)</td> <td>500 µl</td> </tr> <tr> <td>25mM MgCl<sub>2</sub></td> <td>1 ml</td> </tr> </table>	IDTaq™ DNA Polymerase (5U/µl)	250U	10x Reaction Buffer (w 20mM MgCl <sub>2</sub> )	1 ml	10x MgCl <sub>2</sub> Free Reaction Buffer	1 ml	10mM dNTPs (2.5 mM each)	500 µl	25mM MgCl <sub>2</sub>	1 ml				
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<b>10 X Reaction Buffer</b>	100mM Tris-HCl (pH 8.3) 500mM KCl 20mM MgCl <sub>2</sub> Enhancer solution														
<b>Characteristics</b>	No DNA contamination grade enzyme High fidelity product Adds an A Overhang, for TA Vector cloning														
<b>General Reaction Mixture</b>	<table> <tr> <td>Template</td> <td>1ng-1µg</td> </tr> <tr> <td>Primer 1</td> <td>5-10 pmoles</td> </tr> <tr> <td>Primer 2</td> <td>5-10 pmoles</td> </tr> <tr> <td>DNA Polymerase (5U/µl)</td> <td>0.2-0.5µl</td> </tr> <tr> <td>10x Reaction Buffer</td> <td>2 µl</td> </tr> <tr> <td>dNTP Mixture (2.5mM each)</td> <td>2 µl</td> </tr> <tr> <td>Sterilized distilled water</td> <td>up to 20 µl</td> </tr> </table>	Template	1ng-1µg	Primer 1	5-10 pmoles	Primer 2	5-10 pmoles	DNA Polymerase (5U/µl)	0.2-0.5µl	10x Reaction Buffer	2 µl	dNTP Mixture (2.5mM each)	2 µl	Sterilized distilled water	up to 20 µl
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<b>Storage</b>	-20 °C														