

## High Range DNA Ladder

Range: 200 bp – 12000 bp

MADE IN DENMARK



**A610141**

**Cat. No.: A610141**

250 lanes of 2 µl

-	High Range DNA Ladder
<b>ID No.</b>	5401100
<b>Cap colour</b>	Black
<b>Content</b>	1 x 0.5 ml

### Features and General Description

High Range DNA Ladder is a broad range dsDNA ladder with bands from 200 bp to 12000 bp (figure 1).

The ladder can be used to quantitate the amount of DNA in a sample since the mass of DNA in each band in the ladder has been calibrated to range from 6 to 40 ng DNA.

The ladder is supplied in loading buffer, ready-to-use on agarose and polyacrylamide gels. It is suitable with TBE, TAE, SB and LB electrophoresis systems.

### Suggestions for use of High Range DNA Ladder

- **Important:** Mix ladder briefly before use. Do not heat the ladder.
- Load 1 µl to 5 µl of ladder per lane (for gel wells of ~5 – 10 mm width)
- Agarose gel electrophoresis: Prepare 0.5-1% gel. The dye should migrate 60 – 70% the length of the gel.
- Polyacrylamide gel electrophoresis: Prepare 8% gel. The dye should migrate approx. 90% the length of the gel.
- Ethidium bromide (0.5 µg/ml) is the recommended gel stain.

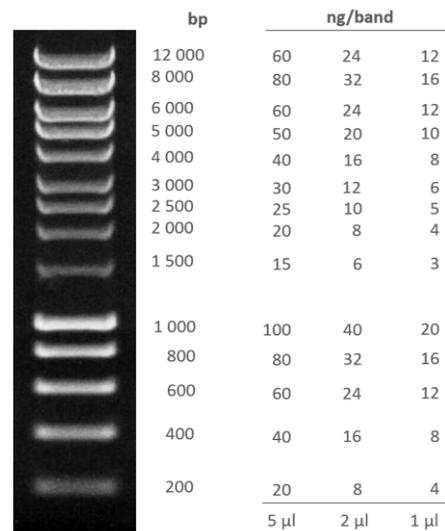
### Storage, Stability and Shipment

High Range DNA ladder may be kept safely at room temperature for at least 3 months from date of shipment. Ladders are guaranteed for 12 months when stored at 4°C. Aliquot product if necessary to avoid repeated freezing and thawing cycles.

Shipped at ambient temperature. For long term storage, keep the loading buffer at -20 °C for up to 3 years.

### Quality control

Agarose gel analysis shows that all bands are present at the expected location and band intensity.



**Figure 1: High Range DNA Ladder.** 2 µl High Range DNA Ladder was loaded on a 0.5 % agarose in 1x TAE and stained with ethidium bromide.

## Related Products

DNA Ladders	Cat. No.
Low Range DNA Ladder: 100 -1000 bp. 250 lanes	A610241
PCR DNA Ladder: 100 -3000 bp. 250 lanes	A610341
Iqon Mini DNA Ladder: 100 -500 bp. 100 lanes	A610441
Iqon Low DNA Ladder: 100 -1000 bp. 100 lanes	A610541
Iqon PCR Ladder: 100 -3000 bp. 100 lanes	A610641

Loading Buffers	Cat. No.
5x Loading Buffer Red, 5 x 1 ml	A608104
5x Loading Buffer Blue, 5 x 1 ml	A608204
5x Loading Buffer Orange, 5 x 1 ml	A608304
5x Loading Buffer Cyan, 5 x 1 ml	A608404

Ultrapure dNTPs*	Cat. No.
dNTP Mix 40 mM (2 x 500 µl): 10 mM each dA, dC, dG, dT	A502004
dNTP Set, 100 mM each: 250 µl of each dA, dC, dG and dT	A511104

\*Other concentrations and Single dNTPs are available.

PCR Grade Water	Cat. No.
6 x 5 ml	A360056

AQ90 High Fidelity DNA Polymerase 2 U/µl*	Cat. No.
With 10x AQ90 Buffer – 500 U	A457403

\* Available in different size ranges.

Taq Polymerase (500 units) *	Cat. No.
Taq DNA Polymerase 5 U/µl	A110003
• with 10x Ammonium Buffer	A111103

Hot Start Polymerase (500 units) *	Cat. No.
TEMPase Hot Start DNA Polymerase, 5 U/µl	A220003
• with 10x Ammonium Buffer	A221103

\*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). Available in different size ranges.

AQ90 High Fidelity DNA Polymerase 2x Master Mix*	Cat. No.
100 reactions	A470701

\* Available in different size ranges.

Taq Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix, 1.5 mM MgCl <sub>2</sub> final concentration	A140303
2x Master Mix RED, 1.5 mM MgCl <sub>2</sub> final concentration	A180303

TEMPase Hot Start Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix A**, 1.5 mM MgCl <sub>2</sub> final concentration	A230303
2x Master Mix A**BLUE, 1.5 mM MgCl <sub>2</sub> final concentration	A290403

\*Master mixes available also in 1.1x variants as well as 2 mM MgCl<sub>2</sub> variants, \*\*Mix A is Ammonium Buffer based, also available as Mix C based on Combination Buffer. Available in different size ranges

Real-time PCR Master Mixes (400 x 25 µl reactions)	Cat. No.
RealQ Plus 2x Master Mix for probe,	
• without ROX™	A313402
• with low ROX™	A314402
• with high ROX™	A315402
RealQ Plus 2x Master Mix Green	
• without ROX™	A323402
• with low ROX™	A324402
• with high ROX™	A325402

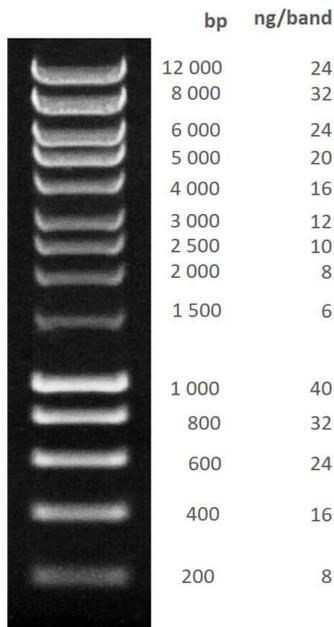
For Research Use Only. Not for use in diagnostics procedures.

Other product sizes, combinations and customized solutions are available. Please look at [www.ampliqon.com](http://www.ampliqon.com) or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

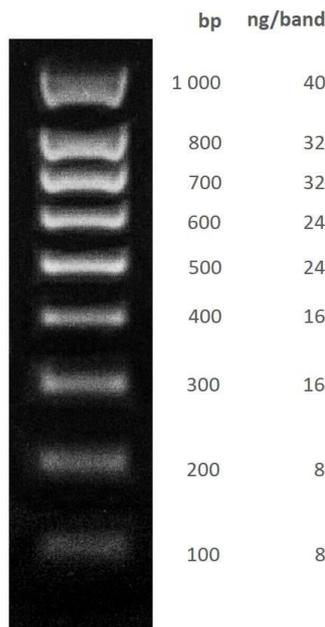
Made in Denmark

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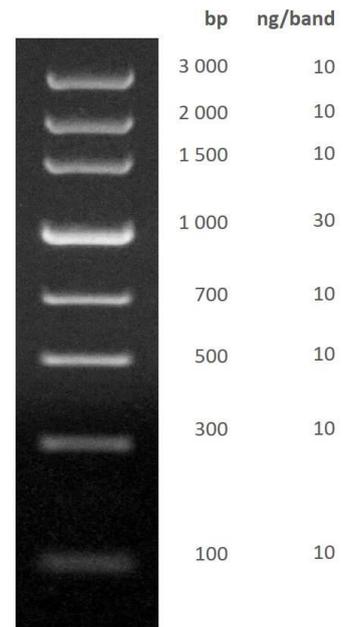
## The Ampliqon DNA Ladders



High Range DNA Ladder



Low Range DNA Ladder



PCR DNA Ladder