

High Range DNA Ladder

Range: 200 bp – 12000 bp

Cat. No.: A610141



A610141

| Cat. No. | Product | ID No. | Cap colour | Volume |
|----------|-----------------------|---------|------------|------------|
| A610141 | High Range DNA Ladder | 5401100 | Black | 1 x 0.5 ml |

Key Features

- Molecular range from 200 bp to 12000 bp
- Mass calibrated bands for DNA quantitation
- Convenient ready-to-use formulation
- 250 lanes of 2 µl

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.

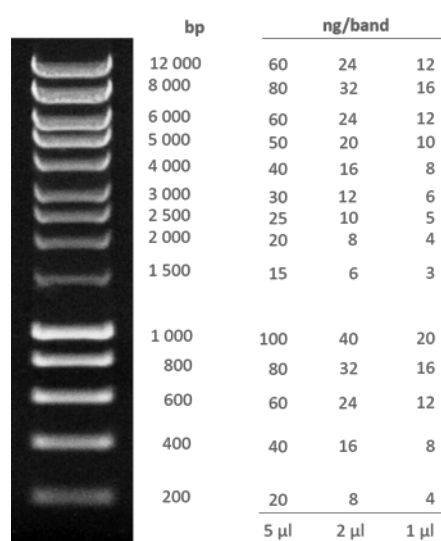


Figure 1: High Range DNA Ladder. 2 µl High Range DNA Ladder was loaded on a 0.5 % agarose in 1x TAE and stained with ethidium bromide.

Related Accessories

| Accessories | Cat. No. |
|---|----------|
| PCR Grade Water, 6 x 5 ml | A360056 |
| 5x DNA Loading Buffer Red, 5 x 1 ml | A608104 |
| 5x DNA Loading Buffer Blue, 5 x 1 ml | A608204 |
| 5x DNA Loading Buffer Orange, 5 x 1 ml | A608304 |
| High Range DNA Ladder, 200-12000 bp 250 lanes | A610141 |
| 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 |

Related Products

| Taq Polymerase (500 units) * | Cat. No. |
|--|--|
| Taq DNA Polymerase 5 U/μl • with 10x Ammonium Buffer • 5x PCR Buffer RED | A110003 A111103 A111803 |
| Taq DNA Polymerase 5 U/μl, RED • with 10x Ammonium Buffer | A200003 A201103 |
| Taq DNA Polymerase 5 U/μl, glycerol free • with 10x Ammonium Buffer | A100003 A101103 |

| Hot Start Polymerase (500 units) * | Cat. No. |
|---|--|
| TEMPase Hot Start DNA Polymerase, 5 U/μl • with 10x Ammonium Buffer • 5x PCR Buffer RED | A220003 A221103 A221803 |
| TEMPase Hot Start DNA Polymerase, glycerol free 5 U/μl • with 10x Ammonium Buffer | A240003 A241103 |

| High Fidelity - Proof reading (500 units) ** | Cat. No. |
|---|----------------------------------|
| AccuPOL DNA Polymerase 2.5 U/μl • with 10x Ammonium Buffer | A210003 A211103 |

*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). **AccuPOL only available in kits with Ammonium Buffer. All kits include extra 25 mM MgCl₂.

| Buffers for DNA polymerases * | Cat. No. |
|------------------------------------|----------------|
| 10x Ammonium Buffer, 3 x 1.5 ml | A301103 |
| 10x Standard Buffer, 3 x 1.5 ml | A302103 |
| 10x Combination Buffer, 3 x 1.5 ml | A303103 |
| 5x PCR Buffer RED, 3 x 1,5 ml ** | A301803 |

*Ammonium Buffer, Standard Buffer and Combination Buffer are also available as Mg²⁺ free buffers, detergent free buffers and Mg²⁺ and detergent free buffers. **For direct gel loading and visualisation.

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

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

*Master mixes available also in 1.1x variants as well as 2 mM MgCl₂ variants, **Mix A is Ammonium Buffer based, also available as Mix C based on Combination Buffer.

| Special Master Mixes (500 x 50 μl reactions) | Cat. No. |
|---|----------------|
| Multiplex 2x Master Mix, 3 mM MgCl ₂ final concentration | A260303 |
| GC TEMPase 2x Master Mix I – for GC-rich templates | A331703 |
| GC TEMPase 2x Master Mix II – for GC-rich templates | A332703 |

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

| 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.

| Loading Buffers and Ladders | Cat. No. |
|--|----------------|
| 5x Loading Buffer Red *, 5 x 1 ml | A608104 |
| PCR DNA Ladder **, 100 – 3000 bp, 1 x 0.5 ml | A610341 |

*Also available with Blue, Orange or Cyan. ** Available in different size ranges.

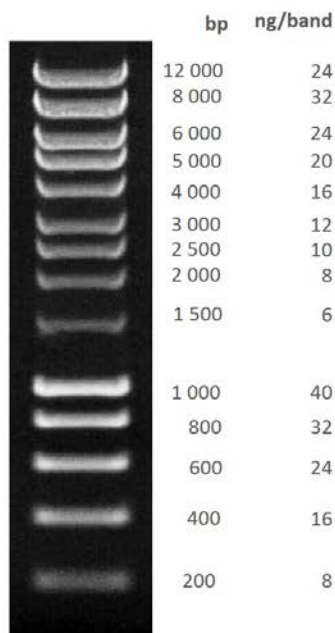
Reagents for *in vitro* laboratory use only.

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

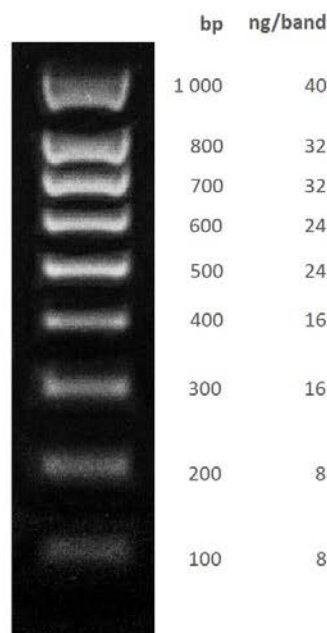
Made in Denmark

Issued 07/2018

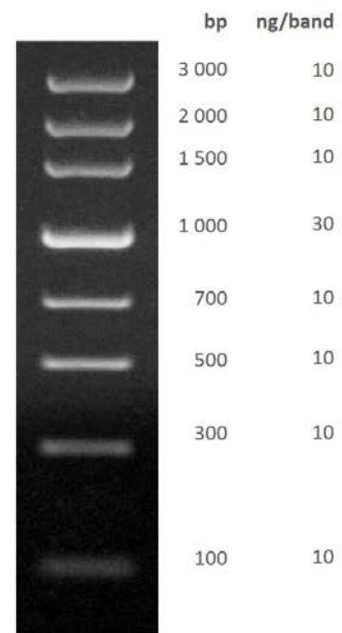
The Ampliqon DNA Ladders



High Range DNA Ladder



Low Range DNA Ladder



PCR DNA Ladder