

# 2018 Top 5 Reverse Transcriptase Players in North America, Europe, Asia-Pacific, South America, Middle East and Africa

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### **Abstracts**

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Normally, DNA is transcribed, or copied, to RNA and then translated to protein. Reverse transcriptase copies RNA back to DNA. Think of it as a car moving down a one-way street. Normally traffic only moves in one direction. But then, someone from out of town is driving the opposite way! Reverse transcriptase drives the opposite way in molecular processes in cells, converting RNA back to DNA.

Although it is very different from the normal process, reverse transcriptase is an important enzyme. It is needed for function in viruses, eukaryotes and prokaryotes. Reverse transcriptase enzymes in cells are involved in genetic diversity and in the process of aging in eukaryotic cells. In viruses, reverse transcriptase allows the virus to insert its DNA to the host cell's DNA, forcing the cell to make more viruses. This is good for the virus but bad for the host.

In the last several years, global market of Reverse Transcriptase developed smoothly, with an average growth rate of 4.6 %. In 2016, global revenue of Reverse Transcriptase is nearly 260 million USD; the actual production is about 570 liter.

The classification of Reverse Transcriptase includes MMLV Reverse Transcriptase and AMV Reverse Transcriptase; Moloney Murine Leukemia Virus (MMLV) Reverse Transcriptase is an RNA-directed DNA polymerase. This enzyme can synthesize a complementary DNA strand initiating from a primer using either RNA (cDNA synthesis) or single-stranded DNA as a template. And the sales proportion of MMLV Reverse Transcriptase in 2016 is about 80.9%.

Reverse Transcriptase can be used for PCR, Sequencing and Cloning, PCR was the largest application segment in 2016, and the proportion is about 59.4%. The application



used in cloning with the fastest growth rate.

Over the next five years, LPI(LP Information) projects that Reverse Transcriptase will register a 3.7% CAGR in terms of revenue, reach US\$ 330 million by 2023, from US\$ 270 million in 2017.

This report studies the global market, especially in North America, Europe, Asia-Pacific, South America, Middle East and Africa, focuses on the top 5 players in each region, with sales, price, revenue and market share from 2013 to 2018, the top players:

Thermo Fisher
Promega
Roche
Agilent
Takara Bio
Qiagen
Bio-Rad
Fapon Biotech
Toyobo
Vazyme
New England Biolabs

Market Segment by Regions, this report splits Global into several key Regions, with sales, revenue, market share of top players in these regions, from 2013 to 2018 (forecast), like

North America (United States, Canada and Mexico)

Asia-Pacific (China, Japan, Southeast Asia, India and Korea)



Europe (Germany, UK, France, Italy and Russia etc.)

South America (Brazil, Chile, Peru and Argentina)

Middle East and Africa (Egypt, South Africa, Saudi Arabia)

Split by Product Types, with sales, revenue, price, market share of each type, can be divided into

MMLV Reverse Transcriptase

AMV Reverse Transcriptase

Split by applications, this report focuses on sales, market share and growth rate in each application, can be divided into

**PCR** 

Sequencing

Cloning



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