

Global TCR-engineered T Cell Therapy Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global TCR-engineered T Cell Therapy market size is predicted to grow from US\$ 599 million in 2025 to US\$ 2946 million in 2032; it is expected to grow at a CAGR of 25.2% from 2026 to 2032.

TCR-engineered T Cell Therapy, or TCR-T cell therapy, is a personalized cellular therapy that uses patient-derived or donor-derived T cells engineered to express specific T cell receptors capable of recognizing disease-associated peptide antigens presented by HLA molecules. Unlike CAR-T therapies, which mainly target cell-surface antigens, TCR-T therapies can recognize intracellular antigen-derived peptides, giving them broader potential in solid tumors, virus-associated cancers, and other difficult-to-treat diseases. The process typically includes T cell collection, TCR discovery and engineering, viral or non-viral gene transfer, cell expansion, quality control, and reinfusion, making it a high-barrier, clinically complex, and highly promising frontier in immune cell therapy. The average gross profit margin of this product is 70%.

The global TCR-engineered T Cell Therapy market is driven by clinical demand, technology upgrades and regulatory access. Leading companies usually build barriers through core technology platforms, approvals or clinical evidence, manufacturing quality systems and channel coverage. Chinese manufacturers have advantages in cost, local clinical resources, registration execution and supply-chain response, while still improving in premium components, overseas certification, long-term clinical evidence and international branding.

Product competition is moving from stand-alone products to platform-based, bundled and scenario-specific solutions. Hospitals, laboratories, research institutions, pharmaceutical companies and end users have different requirements for performance,

price, stability, automation and accessibility. Therefore, the directory classification should cover product type, technology route, performance grade and supply form while avoiding overlap among subsegments.

Future growth will be supported by expanding diagnosis and treatment demand, improving reimbursement and payment systems, domestic substitution, growth in emerging overseas markets and product upgrades. Key risks include lengthy approval cycles, high clinical validation costs, pricing pressure, stricter compliance requirements, supply volatility of key materials or components, and uncertainty around technology substitution. Companies with manufacturing scale, clinical evidence, compliance systems and multi-region sales capabilities are expected to maintain stronger positions.

LPI (LP Information)' newest research report, the "TCR-engineered T Cell Therapy Industry Forecast" looks at past sales and reviews total world TCR-engineered T Cell Therapy sales in 2025, providing a comprehensive analysis by region and market sector of projected TCR-engineered T Cell Therapy sales for 2026 through 2032. With TCR-engineered T Cell Therapy sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world TCR-engineered T Cell Therapy industry.

This Insight Report provides a comprehensive analysis of the global TCR-engineered T Cell Therapy landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on TCR-engineered T Cell Therapy portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global TCR-engineered T Cell Therapy market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for TCR-engineered T Cell Therapy and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global TCR-engineered T Cell Therapy.

This report presents a comprehensive overview, market shares, and growth opportunities of TCR-engineered T Cell Therapy market by product type, application, key players and key regions and countries.

Segmentation by Type:

- Autologous TCR-T
- Allogeneic TCR-T
- Gene-Edited TCR-T
- TCR-NK Or Hybrid Cell Therapy
- TCR Screening Reagents
- Other

Segmentation by Target Antigen:

- NY-ESO-1 Targeted
- MAGE Family Targeted
- AFP Targeted
- HPV Or Viral Antigen Targeted
- Neoantigen Targeted
- Other

Segmentation by Product Form:

- Cell Therapy Product
- GMP Manufacturing Service
- Vector Or Editing Reagent

Companion Testing

Cryopreserved Product

Other

Segmentation by Application:

Synovial Sarcoma

Melanoma

Liver Cancer

Lung Cancer

Gastric And Esophageal Cancer

Other Solid Tumors

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Adaptimmune

Immatics

TScan Therapeutics

Medigene

Triumvira Immunologics

2seventy Bio

BioNTech

Gilead Sciences

Lion TCR

Xiangxue Life Sciences

JW Therapeutics

Gracell Biotechnologies

CARSgen Therapeutics

Hrain Biotechnology

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global TCR-engineered T Cell Therapy Market Size (2021-2032)
 - 2.1.2 TCR-engineered T Cell Therapy Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for TCR-engineered T Cell Therapy by Country/Region (2021, 2025 & 2032)
- 2.2 TCR-engineered T Cell Therapy Segment by Type
 - 2.2.1 Autologous TCR-T
 - 2.2.2 Allogeneic TCR-T
 - 2.2.3 Gene-Edited TCR-T
 - 2.2.4 TCR-NK Or Hybrid Cell Therapy
 - 2.2.5 TCR Screening Reagents
 - 2.2.6 Other
 - 2.2.7 TCR-engineered T Cell Therapy Market Size by Type
 - 2.2.7.1 TCR-engineered T Cell Therapy Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.7.2 Global TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)
- 2.3 TCR-engineered T Cell Therapy Segment by Target Antigen
 - 2.3.1 NY-ESO-1 Targeted
 - 2.3.2 MAGE Family Targeted
 - 2.3.3 AFP Targeted
 - 2.3.4 HPV Or Viral Antigen Targeted
 - 2.3.5 Neoantigen Targeted

2.3.6 Other

2.3.7 TCR-engineered T Cell Therapy Market Size by Target Antigen

2.3.7.1 TCR-engineered T Cell Therapy Market Size CAGR by Target Antigen (2021 VS 2025 VS 2032)

2.3.7.2 Global TCR-engineered T Cell Therapy Market Size Market Share by Target Antigen (2021-2026)

2.4 TCR-engineered T Cell Therapy Segment by Product Form

2.4.1 Cell Therapy Product

2.4.2 GMP Manufacturing Service

2.4.3 Vector Or Editing Reagent

2.4.4 Companion Testing

2.4.5 Cryopreserved Product

2.4.6 Other

2.4.7 TCR-engineered T Cell Therapy Market Size by Product Form

2.4.7.1 TCR-engineered T Cell Therapy Market Size CAGR by Product Form (2021 VS 2025 VS 2032)

2.4.7.2 Global TCR-engineered T Cell Therapy Market Size Market Share by Product Form (2021-2026)

2.5 TCR-engineered T Cell Therapy Segment by Application

2.5.1 Synovial Sarcoma

2.5.2 Melanoma

2.5.3 Liver Cancer

2.5.4 Lung Cancer

2.5.5 Gastric And Esophageal Cancer

2.5.6 Other Solid Tumors

2.5.7 Other

2.5.8 TCR-engineered T Cell Therapy Market Size by Application

2.5.8.1 TCR-engineered T Cell Therapy Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.8.2 Global TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

3 TCR-ENGINEERED T CELL THERAPY MARKET SIZE BY PLAYER

3.1 TCR-engineered T Cell Therapy Market Size Market Share by Player

3.1.1 Global TCR-engineered T Cell Therapy Revenue by Player (2021-2026)

3.1.2 Global TCR-engineered T Cell Therapy Revenue Market Share by Player (2021-2026)

3.2 Global TCR-engineered T Cell Therapy Key Players Head office and Products

Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 TCR-ENGINEERED T CELL THERAPY BY REGION

4.1 TCR-engineered T Cell Therapy Market Size by Region (2021-2026)

4.2 Global TCR-engineered T Cell Therapy Annual Revenue by Country/Region (2021-2026)

4.3 Americas TCR-engineered T Cell Therapy Market Size Growth (2021-2026)

4.4 APAC TCR-engineered T Cell Therapy Market Size Growth (2021-2026)

4.5 Europe TCR-engineered T Cell Therapy Market Size Growth (2021-2026)

4.6 Middle East & Africa TCR-engineered T Cell Therapy Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas TCR-engineered T Cell Therapy Market Size by Country (2021-2026)

5.2 Americas TCR-engineered T Cell Therapy Market Size by Type (2021-2026)

5.3 Americas TCR-engineered T Cell Therapy Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC TCR-engineered T Cell Therapy Market Size by Region (2021-2026)

6.2 APAC TCR-engineered T Cell Therapy Market Size by Type (2021-2026)

6.3 APAC TCR-engineered T Cell Therapy Market Size by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

- 7.1 Europe TCR-engineered T Cell Therapy Market Size by Country (2021-2026)
- 7.2 Europe TCR-engineered T Cell Therapy Market Size by Type (2021-2026)
- 7.3 Europe TCR-engineered T Cell Therapy Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa TCR-engineered T Cell Therapy by Region (2021-2026)
- 8.2 Middle East & Africa TCR-engineered T Cell Therapy Market Size by Type (2021-2026)
- 8.3 Middle East & Africa TCR-engineered T Cell Therapy Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL TCR-ENGINEERED T CELL THERAPY MARKET FORECAST

- 10.1 Global TCR-engineered T Cell Therapy Forecast by Region (2027-2032)
 - 10.1.1 Global TCR-engineered T Cell Therapy Forecast by Region (2027-2032)
 - 10.1.2 Americas TCR-engineered T Cell Therapy Forecast
 - 10.1.3 APAC TCR-engineered T Cell Therapy Forecast
 - 10.1.4 Europe TCR-engineered T Cell Therapy Forecast
 - 10.1.5 Middle East & Africa TCR-engineered T Cell Therapy Forecast

10.2 Americas TCR-engineered T Cell Therapy Forecast by Country (2027-2032)

10.2.1 United States Market TCR-engineered T Cell Therapy Forecast

10.2.2 Canada Market TCR-engineered T Cell Therapy Forecast

10.2.3 Mexico Market TCR-engineered T Cell Therapy Forecast

10.2.4 Brazil Market TCR-engineered T Cell Therapy Forecast

10.3 APAC TCR-engineered T Cell Therapy Forecast by Region (2027-2032)

10.3.1 China TCR-engineered T Cell Therapy Market Forecast

10.3.2 Japan Market TCR-engineered T Cell Therapy Forecast

10.3.3 Korea Market TCR-engineered T Cell Therapy Forecast

10.3.4 Southeast Asia Market TCR-engineered T Cell Therapy Forecast

10.3.5 India Market TCR-engineered T Cell Therapy Forecast

10.3.6 Australia Market TCR-engineered T Cell Therapy Forecast

10.4 Europe TCR-engineered T Cell Therapy Forecast by Country (2027-2032)

10.4.1 Germany Market TCR-engineered T Cell Therapy Forecast

10.4.2 France Market TCR-engineered T Cell Therapy Forecast

10.4.3 UK Market TCR-engineered T Cell Therapy Forecast

10.4.4 Italy Market TCR-engineered T Cell Therapy Forecast

10.4.5 Russia Market TCR-engineered T Cell Therapy Forecast

10.5 Middle East & Africa TCR-engineered T Cell Therapy Forecast by Region (2027-2032)

10.5.1 Egypt Market TCR-engineered T Cell Therapy Forecast

10.5.2 South Africa Market TCR-engineered T Cell Therapy Forecast

10.5.3 Israel Market TCR-engineered T Cell Therapy Forecast

10.5.4 Turkey Market TCR-engineered T Cell Therapy Forecast

10.6 Global TCR-engineered T Cell Therapy Forecast by Type (2027-2032)

10.7 Global TCR-engineered T Cell Therapy Forecast by Application (2027-2032)

10.7.1 GCC Countries Market TCR-engineered T Cell Therapy Forecast

11 KEY PLAYERS ANALYSIS

11.1 Adaptimmune

11.1.1 Adaptimmune Company Information

11.1.2 Adaptimmune TCR-engineered T Cell Therapy Product Offered

11.1.3 Adaptimmune TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)

11.1.4 Adaptimmune Main Business Overview

11.1.5 Adaptimmune Latest Developments

11.2 Immutis

11.2.1 Immutis Company Information

- 11.2.2 Immatics TCR-engineered T Cell Therapy Product Offered
- 11.2.3 Immatics TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 Immatics Main Business Overview
- 11.2.5 Immatics Latest Developments
- 11.3 TScan Therapeutics
 - 11.3.1 TScan Therapeutics Company Information
 - 11.3.2 TScan Therapeutics TCR-engineered T Cell Therapy Product Offered
 - 11.3.3 TScan Therapeutics TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 TScan Therapeutics Main Business Overview
 - 11.3.5 TScan Therapeutics Latest Developments
- 11.4 Medigene
 - 11.4.1 Medigene Company Information
 - 11.4.2 Medigene TCR-engineered T Cell Therapy Product Offered
 - 11.4.3 Medigene TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Medigene Main Business Overview
 - 11.4.5 Medigene Latest Developments
- 11.5 Triumvira Immunologics
 - 11.5.1 Triumvira Immunologics Company Information
 - 11.5.2 Triumvira Immunologics TCR-engineered T Cell Therapy Product Offered
 - 11.5.3 Triumvira Immunologics TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Triumvira Immunologics Main Business Overview
 - 11.5.5 Triumvira Immunologics Latest Developments
- 11.6 2seventy Bio
 - 11.6.1 2seventy Bio Company Information
 - 11.6.2 2seventy Bio TCR-engineered T Cell Therapy Product Offered
 - 11.6.3 2seventy Bio TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 2seventy Bio Main Business Overview
 - 11.6.5 2seventy Bio Latest Developments
- 11.7 BioNTech
 - 11.7.1 BioNTech Company Information
 - 11.7.2 BioNTech TCR-engineered T Cell Therapy Product Offered
 - 11.7.3 BioNTech TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 BioNTech Main Business Overview

- 11.7.5 BioNTech Latest Developments
- 11.8 Gilead Sciences
 - 11.8.1 Gilead Sciences Company Information
 - 11.8.2 Gilead Sciences TCR-engineered T Cell Therapy Product Offered
 - 11.8.3 Gilead Sciences TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 Gilead Sciences Main Business Overview
 - 11.8.5 Gilead Sciences Latest Developments
- 11.9 Lion TCR
 - 11.9.1 Lion TCR Company Information
 - 11.9.2 Lion TCR TCR-engineered T Cell Therapy Product Offered
 - 11.9.3 Lion TCR TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 Lion TCR Main Business Overview
 - 11.9.5 Lion TCR Latest Developments
- 11.10 Xiangxue Life Sciences
 - 11.10.1 Xiangxue Life Sciences Company Information
 - 11.10.2 Xiangxue Life Sciences TCR-engineered T Cell Therapy Product Offered
 - 11.10.3 Xiangxue Life Sciences TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Xiangxue Life Sciences Main Business Overview
 - 11.10.5 Xiangxue Life Sciences Latest Developments
- 11.11 JW Therapeutics
 - 11.11.1 JW Therapeutics Company Information
 - 11.11.2 JW Therapeutics TCR-engineered T Cell Therapy Product Offered
 - 11.11.3 JW Therapeutics TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 JW Therapeutics Main Business Overview
 - 11.11.5 JW Therapeutics Latest Developments
- 11.12 Gracell Biotechnologies
 - 11.12.1 Gracell Biotechnologies Company Information
 - 11.12.2 Gracell Biotechnologies TCR-engineered T Cell Therapy Product Offered
 - 11.12.3 Gracell Biotechnologies TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Gracell Biotechnologies Main Business Overview
 - 11.12.5 Gracell Biotechnologies Latest Developments
- 11.13 CARSGen Therapeutics
 - 11.13.1 CARSGen Therapeutics Company Information
 - 11.13.2 CARSGen Therapeutics TCR-engineered T Cell Therapy Product Offered

11.13.3 CARSGen Therapeutics TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)

11.13.4 CARSGen Therapeutics Main Business Overview

11.13.5 CARSGen Therapeutics Latest Developments

11.14 Hrain Biotechnology

11.14.1 Hrain Biotechnology Company Information

11.14.2 Hrain Biotechnology TCR-engineered T Cell Therapy Product Offered

11.14.3 Hrain Biotechnology TCR-engineered T Cell Therapy Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 Hrain Biotechnology Main Business Overview

11.14.5 Hrain Biotechnology Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. TCR-engineered T Cell Therapy Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. TCR-engineered T Cell Therapy Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Autologous TCR-T

Table 4. Major Players of Allogeneic TCR-T

Table 5. Major Players of Gene-Edited TCR-T

Table 6. Major Players of TCR-NK Or Hybrid Cell Therapy

Table 7. Major Players of TCR Screening Reagents

Table 8. Major Players of Other

Table 9. TCR-engineered T Cell Therapy Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 10. Global TCR-engineered T Cell Therapy Market Size by Type (2021-2026) & (\$ millions)

Table 11. Global TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)

Table 12. Major Players of NY-ESO-1 Targeted

Table 13. Major Players of MAGE Family Targeted

Table 14. Major Players of AFP Targeted

Table 15. Major Players of HPV Or Viral Antigen Targeted

Table 16. Major Players of Neoantigen Targeted

Table 17. Major Players of Other

Table 18. TCR-engineered T Cell Therapy Market Size CAGR by Target Antigen (2021 VS 2025 VS 2032) & (\$ millions)

Table 19. Global TCR-engineered T Cell Therapy Market Size by Target Antigen (2021-2026) & (\$ millions)

Table 20. Global TCR-engineered T Cell Therapy Market Size Market Share by Target Antigen (2021-2026)

Table 21. Major Players of Cell Therapy Product

Table 22. Major Players of GMP Manufacturing Service

Table 23. Major Players of Vector Or Editing Reagent

Table 24. Major Players of Companion Testing

Table 25. Major Players of Cryopreserved Product

Table 26. Major Players of Other

Table 27. TCR-engineered T Cell Therapy Market Size CAGR by Product Form (2021

VS 2025 VS 2032) & (\$ millions)

Table 28. Global TCR-engineered T Cell Therapy Market Size by Product Form (2021-2026) & (\$ millions)

Table 29. Global TCR-engineered T Cell Therapy Market Size Market Share by Product Form (2021-2026)

Table 30. TCR-engineered T Cell Therapy Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 31. Global TCR-engineered T Cell Therapy Market Size by Application (2021-2026) & (\$ millions)

Table 32. Global TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

Table 33. Global TCR-engineered T Cell Therapy Revenue by Player (2021-2026) & (\$ millions)

Table 34. Global TCR-engineered T Cell Therapy Revenue Market Share by Player (2021-2026)

Table 35. TCR-engineered T Cell Therapy Key Players Head office and Products Offered

Table 36. TCR-engineered T Cell Therapy Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Mergers & Acquisitions, Expansion

Table 39. Global TCR-engineered T Cell Therapy Market Size by Region (2021-2026) & (\$ millions)

Table 40. Global TCR-engineered T Cell Therapy Market Size Market Share by Region (2021-2026)

Table 41. Global TCR-engineered T Cell Therapy Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global TCR-engineered T Cell Therapy Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas TCR-engineered T Cell Therapy Market Size by Country (2021-2026) & (\$ millions)

Table 44. Americas TCR-engineered T Cell Therapy Market Size Market Share by Country (2021-2026)

Table 45. Americas TCR-engineered T Cell Therapy Market Size by Type (2021-2026) & (\$ millions)

Table 46. Americas TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)

Table 47. Americas TCR-engineered T Cell Therapy Market Size by Application (2021-2026) & (\$ millions)

Table 48. Americas TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

Table 49. APAC TCR-engineered T Cell Therapy Market Size by Region (2021-2026) & (\$ millions)

Table 50. APAC TCR-engineered T Cell Therapy Market Size Market Share by Region (2021-2026)

Table 51. APAC TCR-engineered T Cell Therapy Market Size by Type (2021-2026) & (\$ millions)

Table 52. APAC TCR-engineered T Cell Therapy Market Size by Application (2021-2026) & (\$ millions)

Table 53. Europe TCR-engineered T Cell Therapy Market Size by Country (2021-2026) & (\$ millions)

Table 54. Europe TCR-engineered T Cell Therapy Market Size Market Share by Country (2021-2026)

Table 55. Europe TCR-engineered T Cell Therapy Market Size by Type (2021-2026) & (\$ millions)

Table 56. Europe TCR-engineered T Cell Therapy Market Size by Application (2021-2026) & (\$ millions)

Table 57. Middle East & Africa TCR-engineered T Cell Therapy Market Size by Region (2021-2026) & (\$ millions)

Table 58. Middle East & Africa TCR-engineered T Cell Therapy Market Size by Type (2021-2026) & (\$ millions)

Table 59. Middle East & Africa TCR-engineered T Cell Therapy Market Size by Application (2021-2026) & (\$ millions)

Table 60. Key Market Drivers & Growth Opportunities of TCR-engineered T Cell Therapy

Table 61. Key Market Challenges & Risks of TCR-engineered T Cell Therapy

Table 62. Key Industry Trends of TCR-engineered T Cell Therapy

Table 63. Global TCR-engineered T Cell Therapy Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 64. Global TCR-engineered T Cell Therapy Market Size Market Share Forecast by Region (2027-2032)

Table 65. Global TCR-engineered T Cell Therapy Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 66. Global TCR-engineered T Cell Therapy Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 67. Adaptimmune Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 68. Adaptimmune TCR-engineered T Cell Therapy Product Offered

Table 69. Adaptimmune TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 70. Adaptimmune Main Business

Table 71. Adaptimmune Latest Developments

Table 72. Immatics Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 73. Immatics TCR-engineered T Cell Therapy Product Offered

Table 74. Immatics TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 75. Immatics Main Business

Table 76. Immatics Latest Developments

Table 77. TScan Therapeutics Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 78. TScan Therapeutics TCR-engineered T Cell Therapy Product Offered

Table 79. TScan Therapeutics TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 80. TScan Therapeutics Main Business

Table 81. TScan Therapeutics Latest Developments

Table 82. Medigene Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 83. Medigene TCR-engineered T Cell Therapy Product Offered

Table 84. Medigene TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 85. Medigene Main Business

Table 86. Medigene Latest Developments

Table 87. Triumvira Immunologics Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 88. Triumvira Immunologics TCR-engineered T Cell Therapy Product Offered

Table 89. Triumvira Immunologics TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 90. Triumvira Immunologics Main Business

Table 91. Triumvira Immunologics Latest Developments

Table 92. 2seventy Bio Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 93. 2seventy Bio TCR-engineered T Cell Therapy Product Offered

Table 94. 2seventy Bio TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 95. 2seventy Bio Main Business

Table 96. 2seventy Bio Latest Developments

Table 97. BioNTech Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 98. BioNTech TCR-engineered T Cell Therapy Product Offered

Table 99. BioNTech TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 100. BioNTech Main Business

Table 101. BioNTech Latest Developments

Table 102. Gilead Sciences Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 103. Gilead Sciences TCR-engineered T Cell Therapy Product Offered

Table 104. Gilead Sciences TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 105. Gilead Sciences Main Business

Table 106. Gilead Sciences Latest Developments

Table 107. Lion TCR Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 108. Lion TCR TCR-engineered T Cell Therapy Product Offered

Table 109. Lion TCR TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 110. Lion TCR Main Business

Table 111. Lion TCR Latest Developments

Table 112. Xiangxue Life Sciences Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 113. Xiangxue Life Sciences TCR-engineered T Cell Therapy Product Offered

Table 114. Xiangxue Life Sciences TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 115. Xiangxue Life Sciences Main Business

Table 116. Xiangxue Life Sciences Latest Developments

Table 117. JW Therapeutics Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 118. JW Therapeutics TCR-engineered T Cell Therapy Product Offered

Table 119. JW Therapeutics TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 120. JW Therapeutics Main Business

Table 121. JW Therapeutics Latest Developments

Table 122. Gracell Biotechnologies Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 123. Gracell Biotechnologies TCR-engineered T Cell Therapy Product Offered

Table 124. Gracell Biotechnologies TCR-engineered T Cell Therapy Revenue (\$

million), Gross Margin and Market Share (2021-2026)

Table 125. Gracell Biotechnologies Main Business

Table 126. Gracell Biotechnologies Latest Developments

Table 127. CARSGen Therapeutics Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 128. CARSGen Therapeutics TCR-engineered T Cell Therapy Product Offered

Table 129. CARSGen Therapeutics TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 130. CARSGen Therapeutics Main Business

Table 131. CARSGen Therapeutics Latest Developments

Table 132. Hrain Biotechnology Details, Company Type, TCR-engineered T Cell Therapy Area Served and Its Competitors

Table 133. Hrain Biotechnology TCR-engineered T Cell Therapy Product Offered

Table 134. Hrain Biotechnology TCR-engineered T Cell Therapy Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 135. Hrain Biotechnology Main Business

Table 136. Hrain Biotechnology Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. TCR-engineered T Cell Therapy Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global TCR-engineered T Cell Therapy Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. TCR-engineered T Cell Therapy Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. TCR-engineered T Cell Therapy Sales Market Share by Country/Region (2025)

Figure 8. TCR-engineered T Cell Therapy Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global TCR-engineered T Cell Therapy Market Size Market Share by Type in 2025

Figure 10. Global TCR-engineered T Cell Therapy Market Size Market Share by Target Antigen in 2025

Figure 11. Global TCR-engineered T Cell Therapy Market Size Market Share by Product Form in 2025

Figure 12. TCR-engineered T Cell Therapy in Synovial Sarcoma

Figure 13. Global TCR-engineered T Cell Therapy Market: Synovial Sarcoma (2021-2026) & (\$ millions)

Figure 14. TCR-engineered T Cell Therapy in Melanoma

Figure 15. Global TCR-engineered T Cell Therapy Market: Melanoma (2021-2026) & (\$ millions)

Figure 16. TCR-engineered T Cell Therapy in Liver Cancer

Figure 17. Global TCR-engineered T Cell Therapy Market: Liver Cancer (2021-2026) & (\$ millions)

Figure 18. TCR-engineered T Cell Therapy in Lung Cancer

Figure 19. Global TCR-engineered T Cell Therapy Market: Lung Cancer (2021-2026) & (\$ millions)

Figure 20. TCR-engineered T Cell Therapy in Gastric And Esophageal Cancer

Figure 21. Global TCR-engineered T Cell Therapy Market: Gastric And Esophageal Cancer (2021-2026) & (\$ millions)

Figure 22. TCR-engineered T Cell Therapy in Other Solid Tumors

Figure 23. Global TCR-engineered T Cell Therapy Market: Other Solid Tumors

(2021-2026) & (\$ millions)

Figure 24. TCR-engineered T Cell Therapy in Other

Figure 25. Global TCR-engineered T Cell Therapy Market: Other (2021-2026) & (\$ millions)

Figure 26. Global TCR-engineered T Cell Therapy Market Size Market Share by Application in 2025

Figure 27. Global TCR-engineered T Cell Therapy Revenue Market Share by Player in 2025

Figure 28. Global TCR-engineered T Cell Therapy Market Size Market Share by Region (2021-2026)

Figure 29. Americas TCR-engineered T Cell Therapy Market Size 2021-2026 (\$ millions)

Figure 30. APAC TCR-engineered T Cell Therapy Market Size 2021-2026 (\$ millions)

Figure 31. Europe TCR-engineered T Cell Therapy Market Size 2021-2026 (\$ millions)

Figure 32. Middle East & Africa TCR-engineered T Cell Therapy Market Size 2021-2026 (\$ millions)

Figure 33. Americas TCR-engineered T Cell Therapy Value Market Share by Country in 2025

Figure 34. United States TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 35. Canada TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 36. Mexico TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 37. Brazil TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 38. APAC TCR-engineered T Cell Therapy Market Size Market Share by Region in 2025

Figure 39. APAC TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)

Figure 40. APAC TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

Figure 41. China TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 42. Japan TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 43. South Korea TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 44. Southeast Asia TCR-engineered T Cell Therapy Market Size Growth

2021-2026 (\$ millions)

Figure 45. India TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 46. Australia TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 47. Europe TCR-engineered T Cell Therapy Market Size Market Share by Country in 2025

Figure 48. Europe TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)

Figure 49. Europe TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

Figure 50. Germany TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 51. France TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 52. UK TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 53. Italy TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 54. Russia TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 55. Middle East & Africa TCR-engineered T Cell Therapy Market Size Market Share by Region (2021-2026)

Figure 56. Middle East & Africa TCR-engineered T Cell Therapy Market Size Market Share by Type (2021-2026)

Figure 57. Middle East & Africa TCR-engineered T Cell Therapy Market Size Market Share by Application (2021-2026)

Figure 58. Egypt TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 59. South Africa TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 60. Israel TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 61. Turkey TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 62. GCC Countries TCR-engineered T Cell Therapy Market Size Growth 2021-2026 (\$ millions)

Figure 63. Americas TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)

- Figure 64. APAC TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 65. Europe TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 66. Middle East & Africa TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 67. United States TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 68. Canada TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 69. Mexico TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 70. Brazil TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 71. China TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 72. Japan TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 73. Korea TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 74. Southeast Asia TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 75. India TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 76. Australia TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 77. Germany TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 78. France TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 79. UK TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 80. Italy TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 81. Russia TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 82. Egypt TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 83. South Africa TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 84. Israel TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 85. Turkey TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)
- Figure 86. Global TCR-engineered T Cell Therapy Market Size Market Share Forecast by Type (2027-2032)
- Figure 87. Global TCR-engineered T Cell Therapy Market Size Market Share Forecast by Application (2027-2032)
- Figure 88. GCC Countries TCR-engineered T Cell Therapy Market Size 2027-2032 (\$ millions)

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