

## Reporter Gene Assay Market Size, Share & Trends Analysis Report By Application (In Vitro Studies, Clinical), By Product (Luciferase, Beta-galactosidase), By Usage, By End Use, And Segment Forecasts, 2020 - 2027

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### **Abstracts**

Reporter Gene Assay Market Growth & Trends

The global reporter gene assay market size is expected to reach USD 9.0 billion by 2027 registering a CAGR of 8.1%, according to a new report by Grand View Research, Inc. Reporter genes have significant demand as they are increasingly being used in studying gene expression and across several research studies in the fields of biochemistry, molecular biology, and pharmaceuticals. Reporter genes also play a pivotal role in quantifying the regulatory potential of unknown DNA sequences.

Rising penetration of these assays in diagnostic applications and their utility in understanding signal transduction pathways is expected to propel the market growth. Promega Corporation has developed vectors that can be used in investigation of signaling pathways. The company has also developed rapid response reporters to enhance the signal to background ratio.

Several other prominent market players also offer a strong product portfolio for luciferase assays. For instance, ThermoFisher Scientific offers a wide range of luciferase and Chemiluminescent assays to monitor the reporter activity. Moreover, presence of key market players such as Promega Corporation in developing economies is expected to drive the demand in this market.

Reporter Gene Assay Market Report Highlights



Luciferase assays accounted for the highest revenue share in 2019 and is anticipated to retain its leading position throughout the forecast period

This is because luciferase enables precise measurement of signal maintaining consistency of the outcomes

In vitro studies application segment is projected to register the fastest CAGR of 8.3% from 2020 to 2027 owing to increasing need for rapid screening

Cell signaling pathways subsegment displayed the highest contribution to the clinical applications segment in 2019 owing to rise in adoption of reporter assays for GPCR signaling investigations and for screening chemicals that cause signaling disruption

These protocols are majorly employed in drug discovery programs, which has largely contributed to the growth of this segment in the global market throughout the forecast period

Hospital & diagnostic laboratories end-use segment is expected to register the highest CAGR from 2020 to 2027

North America accounted for the highest revenue share in 2019 owing to high penetration of cell-based assay technologies in the regional market

Asia Pacific is expected to witness the fastest CAGR from 2020 to 2027 due to rise in the number of research investigations that are focused on use of reporter genes for regulation of several disorders



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