Protein Expression Market is estimated to be US$ 6.36 billion by 2030 with a CAGR of 11.2% during the forecast period

Protein Expression is referred to the method in which proteins are synthesized, modified and regulated in living organisms. This term applies to study of laboratory applications to manufacture proteins. The gene of interest is inserted into the plasmid vector that is then transformed into a bacterial cell. The expression level is then calculated by transcribed mRNA, expressed protein or directly by stained protein. This helps researchers to study the functionality of proteins and in vitro more easily. Higher rate of protein expression can be achieved by reducing the rate of transcription, either by substituting a stronger promoter with weaker one. The primary factors fueling the growth of the global protein expression market market are increasing usage of protein expression technologies in the manufacturing of biotechnology products for use in therapeutic and diagnostic products. Moreover, increasing development in the proteomics and biotechnology industry is expected to boost the demand for protein expression researches shortly.

Region Analysis:

North America accounts highest revenue share of global protein expression market market due to growing demand for advanced medical technologies and increasing geriatric population. Asia Pacific Protein expression is projected to register a high CAGR over the forecast period owing to trends of a highly attractive and profitable market.

Key Development:

- In March 2022, ProteoGenix, a research organization recently announces the launch of its XtenCHO Transient Expression System to enhance biological developments.
- In 2020, Polyplus-transfection launches new solution FectoCHO Expression System to enhance production in CHO cells, showing outstanding protein yields even at low DNA amounts.

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Segmentation:

The global protein expression market market accounted for US$ 2.23 billion in 2020 and is estimated to be US$ 6.36 billion by 2030 and is anticipated to register a CAGR of 11.2%. The global protein expression market market is segmented based on product, application, expression systems, end-user, and region.

- Based on the product, the global protein expression market is segmented into the instruments, reagents, services, and other products.
- Based on the application, the target market is segmented into cell culture, protein purification, membrane proteins, and transfection technologies.
- Based on expression systems, the global market is classified into cell-free, bacterial, yeast, algal, insect, mammalian, and others.
- Based on end-user, the target market is bifurcated into academia, industry, and others.

- On region the global protein expression market market is segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa.

Competitive Analysis:

The key players operating the global protein expression market involves Agilent Technologies, Inc., Bio-Rad Laboratories, Inc., EMD Millipore, Life Technologies Corporation, Oxford Expression Technologies Ltd., Promega Corporation, QIAGEN N.V., TAKARA BIO INC. and Thermo Fisher Scientific Inc.