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Agilent launches biology solution for protein analysis

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Singapore: Global supplier firm, Agilent Technologies, has launched QuikChange HT Protein Engineering System, a novel synthetic biology solutions for rational mutagenesis that creates libraries of rationally designed protein variants.

The screening of these variants is to help scientists to analyze protein structure and its effects on function while looking for enhanced forms, all in one experiment.

QuikChange HT enables single amino acid scanning, site saturation scanning and targeted combinatorial mutagenesis at a fraction of the cost currently offered by other synthetic gene vendors.

"Now in less than twenty-four hours, researchers can define and customize mutations for every amino acid in a whole protein or domain," said Mr Victor Fung, senior director, Agilent's Diagnostics and Genomics Division. "With access to free mutagenesis software, workspace scientists can design large mutagenic libraries of up to 120,000 defined variants, with unparalleled speed, accuracy and scope."

"QuikChange HT is a most cost-effective protein engineering system with the ability to create rational variant libraries of up to 120,000 recombinant mutants," said Mr Fung. "It's more cost effective to synthesize only the DNA needed to create the mutation, rather than making the entire gene. All this requires less than six hours of hands-on time and just one day to complete."