

Antibody Module for Aptean GenomeQuest

Dramatically streamline CDR and chain sequence analysis

With the growing focus on antibodies in diverse medical applications, it's critical that companies researching these therapies protect their intellectual property (IP) and R&D investments. But searching for antibody sequences in the IP landscape is notoriously difficult. Searchers typically must perform up to eight separate searches, export the results to Excel, and then spend days painstakingly combining entries to discover potential matches. With this complex process, even expert searchers struggle to answer critical questions about antibody IP.

Now, anyone can search like an expert

The first solution of its kind, GenomeQuest's Antibody Module places CDR and chain sequence analysis into a single efficient workflow, dramatically streamlining the once-grueling process of antibody sequence search. Now, anyone can search like an expert, and analysis that once took days can be accomplished in a couple of clicks.

- **Easily set up searches** – Simply paste your CDR and chain sequences into the user-friendly search page, choose from intelligent default options to set your search parameters, and submit your search.
- **Dramatically streamline results analysis** – The Antibody Module delivers an interactive summary report that displays search results in clear visualizations. Simply click into the visualizations to jump to the documents that contain the results.
- **Search more confidently** – By removing complexity from the antibody sequence search process, the Antibody Module not only saves you time – it also improves the accuracy and completeness of your results.
- **Answer your most challenging questions** – Quickly find all documents and database sequences containing your CDR and chain sequences, identify sequences with your CDRs in a specific order, or look at CDR amino acid variations in the patent landscape.

Search Details

Antibody Search

CDR Sequences Heavy Chain

GFTLRTYGMS 1 Mismatch(es) Allowed

SISYGGLLYFSDSVK 2 Mismatch(es) Allowed

GTSFVRYFDV 1 Mismatch(es) Allowed

CDR Sequences Light Chain

RSSQTIVHTNGNTYFE 2 Mismatch(es) Allowed

RVSNRLS 1 Mismatch(es) Allowed

FGGSHSPWT 1 Mismatch(es) Allowed

Heavy and Light Chain Sequences

GenePast Search Require 80 % Identity over the Chain Sequence

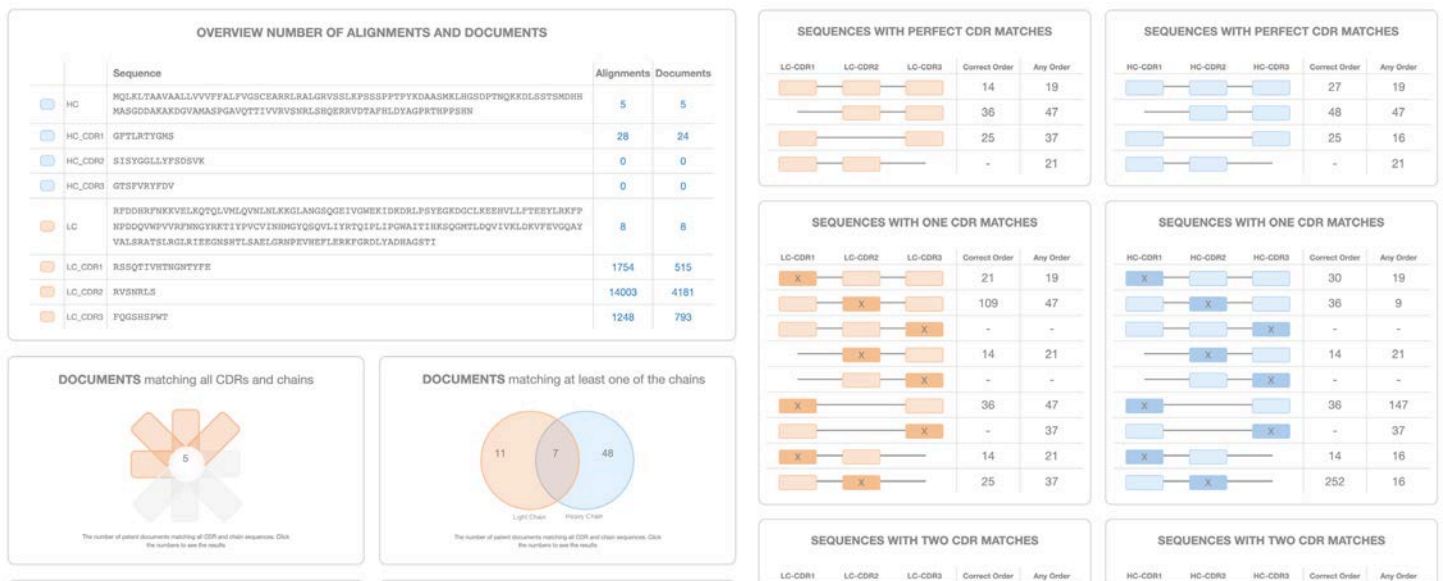
MQLKLTAAVAALLYVFFALFVGSCEARRLRALGRVSSLKPSSSPPTPYKDAASKMLHGSDDPTNQKDLSSST
 SMDHHMASGDDAKAKDGVAMASPGAVQTTIVRWSNRLSHQERRVDTAFHLDYAGPRTHPPSHN

RFDHHRFNKKEVLLKQTQLVMLQVNLNLKKGLANGSOGIEVWGEIKDRLPSYEGKDGCLKEEHVLLFTEEY

Quickly set your search parameters on the user-friendly search page.

Key Features

- **User-friendly launch page with intelligent defaults** – Simply paste your CDR and chain sequences into the search fields and select the number of mismatches allowed for each sequence. Then choose the databases you want to search and submit your search. Light and heavy chain sequences can also be included in your search but are not required.
- **Interactive search report** – Get a visual summary of all the documents and database sequences containing your CDR and chain sequences. Results are displayed in interactive charts and Venn diagrams, making it easy to see the number of documents and database sequences containing your CDR and chain sequences.
- **Instant drill-down** - Simply click into the visualizations to be taken to the specific alignments in the documents where they were found.
- **Audit trail** – Each search produces an audit trail that displays time stamps, the patent sequence databases searched, and the CDR and chain sequences searched for with a high-level overview of the alignments found.
- **Easy results sharing** – The detailed Antibody Search Report and attached audit trail can be easily shared with customers or colleagues for seamless collaboration.



The Antibody Search Report displays search results in clear visualizations with drill-down functionality.

For more information on the Antibody Search Module for Apteant GenomeQuest, contact your account manager or email us at info@aptean.com.



Apteant provides very specific industries with very specific ERP, supply chain management, and customer experience solutions. In today's fast-paced, highly competitive economy, organizations don't have time to waste forcing homegrown software, spreadsheets, and one-size-fits-all solutions to do things they were never designed to do. Apteant is on a mission to end those workarounds – with industry-specific solutions instead of generic software, expert support instead of making you go it alone, and a steady influx of new ideas instead of the status quo. For more information, visit www.aptean.com.