







FOURIN LUIIION

Tabulation and Analysis of Amino Acid and Nucleic Acid Sequences of Precursors, V-Regions, C-Regions, J-Chain, T-Cell Receptor for Antigen, T-Cell Surface Antigens, β_2 -Microglobulins, Major Histocompatibility Antigens, Thy-1, Complement, C-Reactive Protein, Thymopoietin, Post-gamma Globulin, and α_2 -Macroglobulin

1987

Elvin A. Kabat*, Tai Te Wu [†], Margaret Reid-Miller [‡], Harold M. Perry [‡], and Kay S. Gottesman [‡]

- * Depts. of Microbiology, Genetics and Development, and Neurology, Cancer Center/ Institute of Cancer Research, College of Physicians and Surgeons, Columbia University, New York, NY 10032 and the National Institute of Allergy and Infectious Diseases, Bethesda, MD 20892.
- † Depts. of Biochemistry, Molecular Biology, and Cell Biology, and Engineering Sciences and Applied Mathematics and Biomedical Engineering, Northwestern University, Evanston, IL 60201 and the Cancer Center, Northwestern University Medical School, Chicago, IL 60611
- ‡Bolt Beranek and Newman Inc., Cambridge, MA 02238

The collection and maintenance of this data base is sponsored through Contract N01-RR-8-2158 by the following components of the National Institutes of Health, Bethesda, MD 20892:

Division of Research Resources
National Cancer Institute
National Institute of Allergy and Infectious Diseases
National Institute of Arthritis, Diabetes, Digestive and Kidney Diseases
National Institute of General Medical Sciences

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service National Institutes of Health (1987)



Our listing of sequences will be kept up to date. Investigators are invited to send additional sequence data when accepted for publication. Send two copies of the manuscript together with a letter of acceptance from a journal to:

Dr. E.A. Kabat National Institutes of Health Building 8, Room 126 9000 Rockville Pike Bethesda, Maryland 20892

It would be extremely helpful if you can send us your sequence data on magnetic tapes or floppy diskettes or a clean copy of the sequences. The file formats should be such that they can be read by a generic word processor.

When published, three reprints should be provided.

If any published sequences have been overlooked or if any errors are found, please bring them to our attention.



| | SIGNAL PEPTIDES OF THEEL SURFACE AINTIGENS. | . 38 |
|-----------|--|---|
| | VARIABLE REGION LIGHT CHAIN SEQUENCES | |
| | HUMAN KAPPA LIGHT CHAINS SUBGROUP I HUMAN KAPPA LIGHT CHAINS SUBGROUP II HUMAN KAPPA LIGHT CHAINS SUBGROUP III HUMAN KAPPA LIGHT CHAINS SUBGROUP IV | . 50 . 53 . 60 |
| ` | HUMAN LAMBDA LIGHT CHAINS SUBGROUP I HUMAN LAMBDA LIGHT CHAINS SUBGROUP III HUMAN LAMBDA LIGHT CHAINS SUBGROUP III HUMAN LAMBDA LIGHT CHAINS SUBGROUP IV HUMAN LAMBDA LIGHT CHAINS SUBGROUP V HUMAN LAMBDA LIGHT CHAINS SUBGROUP VI | . 69 . 69 . 72 . 74 |
| h a | MOUSE KAPPA LIGHT CHAINS I MOUSE KAPPA LIGHT CHAINS II MOUSE KAPPA LIGHT CHAINS III MOUSE KAPPA LIGHT CHAINS IV MOUSE KAPPA LIGHT CHAINS V MOUSE KAPPA LIGHT CHAINS VI MOUSE KAPPA LIGHT CHAINS VII MOUSE KAPPA LIGHT CHAINS VIII | . 85 . 95 102 105 117 124 |
| | MOUSE LAMBDA LIGHT CHAINS | |
| * * | RAT KAPPA LIGHT CHAINS RABBIT KAPPA LIGHT CHAINS RABBIT LAMBDA LIGHT CHAINS | 136 149 |
| | OTHER KAPPA LIGHT CHAINS OTHER LAMBDA LIGHT CHAINS MISCELLANEOUS LIGHT CHAINS | 154 |
| | VARIABLE REGION HEAVY CHAIN SEQUENCES | 40 |
| py ead | HUMAN HEAVY CHAINS SUBGROUP I HUMAN HEAVY CHAINS SUBGROUP II | 164 |
| eau | HUMAN HEAVY CHAINS SUBGROUP III MOUSE HEAVY CHAINS SUBGROUP I (A) | |
| | MOUSE HEAVY CHAINS SUBGROUP I (B) | 18 ³ 18 ⁶ 19 ² |
| n to | MOUSE HEAVY CHAINS SUBGROUP II (C). MOUSE HEAVY CHAINS SUBGROUP III (A). MOUSE HEAVY CHAINS SUBGROUP III (B). MOUSE HEAVY CHAINS SUBGROUP III (C). MOUSE HEAVY CHAINS SUBGROUP III (D). MOUSE HEAVY CHAINS SUBGROUP V (A). | 204 214 219 220 220 |
| ٠ | MOUSE HEAVY CHAINS SUBGROUP V (B) MOUSE HEAVY CHAINS SUBGROUP MISCELLANEOUS RAT HEAVY CHAINS | 23 |
| | RABBIT HEAVY CHAINS | |
| | GUINEA PIG HEAVY CHAINS CAT HEAVY CHAINS DOG HEAVY CHAINS CHICKEN HEAVY CHAINS SHARK HEAVY CHAINS MISCELLANEOUS HEAVY CHAINS | 25 25 25 25 25 25 |
| | T-LYMPHOCYTE RECEPTOR FOR ANTIGEN VARIABLE REGION (ALPHA CHAINS) T-LYMPHOCYTE RECEPTOR FOR ANTIGEN VARIABLE REGION (BETA CHAINS SUBGROUP I) T-LYMPHOCYTE RECEPTOR FOR ANTIGEN VARIABLE REGION (BETA CHAINS SUBGROUP II) T-LYMPHOCYTE RECEPTOR FOR ANTIGEN VARIABLE REGION (GAMMA CHAINS) | 260 274 |
| | CONSTANT REGION SEQUENCES | |
| | KAPPA LIGHT CONSTANT CHAINS | |
| | HEAVY CONSTANT CHAINS CH1 REGION HEAVY CONSTANT CHAINS HINGE REGION HEAVY CONSTANT CHAINS CH2 REGION HEAVY CONSTANT CHAINS CH3 REGION HEAVY CONSTANT CHAINS EXTRA LONG CH3 REGION HEAVY CONSTANT CHAINS EXTRA LONG CH3 REGION HEAVY CONSTANT CHAINS CH4 REGION | 30 30 31 32 32 |
| | HEAVY CONSTANT CHAINS EXTRA LONG CH4 AND MEMBRANE BOUND REGIONS | 32 |
| | SEQUENCES OF RELATED PROTEINS | |
| | J CHAIN BETA-2-MICROGLOBULINS | |
| . ٧ | MAJOR HISTOCOMPATIBILITY ANTIGENS CLASS I N REGION MAJOR HISTOCOMPATIBILITY ANTIGENS CLASS I C1 REGION MAJOR HISTOCOMPATIBILITY ANTIGENS CLASS I C2 REGION MAJOR HISTOCOMPATIBILITY ANTIGENS CLASS I MEMBRANE REGION MAJOR HISTOCOMPATIBILITY ANTIGENS CLASS I MEMBRANE REGION | 33 34 34 34 |
| | I REGION GENE PRODUCTS CLASS II A-CHAIN A1 REGION. I REGION GENE PRODUCTS CLASS II A-CHAIN A2 REGION. I REGION GENE PRODUCTS CLASS II A-CHAIN MEMBRANE BOUND REGION. | . 36: . 36: |
| | I REGION GENE PRODUCTS CLASS II B-CHAIN B1 REGION | 37 |



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

