



inclusive

impartial

immense



Immune repertoire amplified  
semi-quantitatively & automatically,



to be sequenced by  
the NexGen platforms.



## Inclusive

Our novel arm-PCR (amplicon rescued multiplex PCR) is very sensitive, allowing the amplification of an inclusive immune repertoire from a small sample.

## Impartial

One unique feature of the arm-PCR method is that it performs multiplex PCR semi-quantitatively. Immune repertoire is amplified without introducing bias.

## Immense

Combined with the next generation sequencing platforms, iRepertoire is providing the most complete tool sets for immune repertoire sequencing and bioinformatic analysis.



## Products and Services

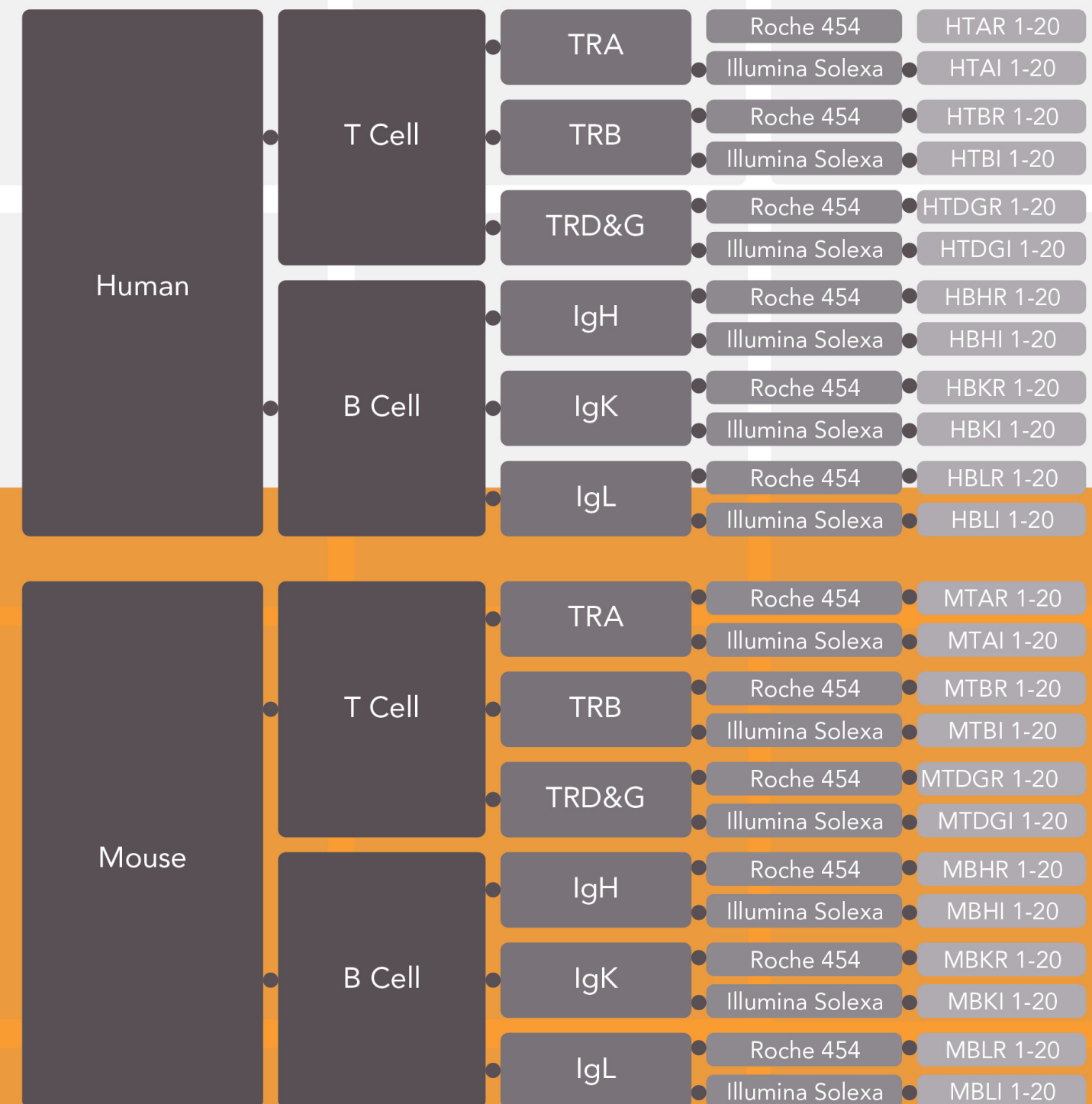
iRepertoire is proud to be the first to provide the most complete tool sets for immune repertoire research using the next generation high throughput sequencing approach. Our products include:

- A library of an immune repertoire, constructed from pooled samples and sequenced, to be used as a positive control for your studies. The known CDR3 distribution of the library will help you evaluate your methodology and optimize your protocols.

- A complete set of reagents (see the chart on the right) allows you to amplify immune repertoire from human or mouse T and B cells. You can choose the reagents to fit the sequencing platforms of your choice (Roche 454, or Illumina Solexa). We also provide barcoded primer sets which allow you to pool up to 20 samples together for one sequencing run to reduce your cost.
- If you prefer, we also provide immune repertoire amplification, even sequencing and data analysis services.

## Coming Soon

iRepertoire will provide a new line of products called AiRiC™: Using iCubate cassette and icSystem, AiRiC™ allows researchers to scan immune repertoire diversity, automatically, in a few hours, without lengthy and expensive sequencing procedures.



## Ordering Instructions

Example 1 - (HTAR 1-20) - H: Human; TA: T cell receptor Alpha; R: Roche 454; 1-20 barcode selection from 1 to 20.  
 Example 2 - (MBHI 1-20) - M: Mouse; BH: B cell Heavy Chain; I: Illumina Solexa; 1-20 barcode selection from 1 to 20.

All products are for research use only.





## icSystem

iRepertoire obtained exclusive rights to use iCubate platforms for immune repertoire research. An iCubate system includes one Reader, one Processor, and a computer with preinstalled software. The internal and external barcode scanners located throughout the system will ensure error free processing and tracking of your samples.

## icReader

iCubate's Reader allows for automated data collection from iCubate cassettes. A high speed rotating platter, laser and photo multiplier tube allow the acquisition of data from each cassette in just seconds.

## icCassette

Each single use cassette comes pre-loaded with all the reagents necessary to perform a multiplex amplification and detection for your sample. The closed design of the cassette guarantees that the high concentration amplicons contained inside have no chance of contaminating your lab.

## icProcessor

iCubate's Processor allows for the automated processing of iCubate cassettes. Computer controlled robotics allow for automated PCR, hybridization and washing procedures to be performed. Each Processor can run from one to four cassettes in a random access fashion, if more throughput is needed, up to twelve units can be linked together to run up to 48 samples simultaneously.

## icReport

iCubate's Report software performs automated data analysis and generates individual reports for each iCubate cassette. It also monitors and tracks cassette progress as well as system performance.

*We find health in your diversity*



**iRepertoire**

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