

# GenScript's antibody sequencing service

Your sequence, right to the last base!



## Always obtain a correct antibody sequence:

Knowing the sequence of your monoclonal antibody is not only the first step towards antibody engineering and function optimization, but also critical for eventual patent protection and therapeutic development and approval.

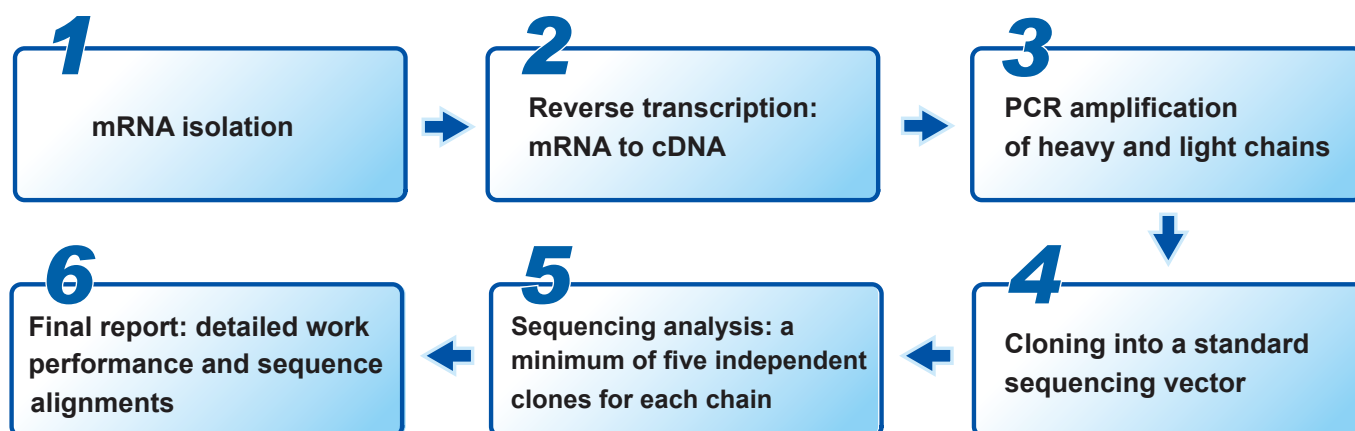
GenScript's advanced technology provides you fast and professional sequencing services for your hard-won monoclonal antibodies. We are capable of sequencing hybridoma from mouse, rat, rabbit and other species. You can rely on our ISO 9001 certified and guaranteed Antibody Sequencing Service to speed up and facilitate your patent application, database banking, and therapeutic antibody development.

If you think antibody sequencing is easy, THINK AGAIN! Imagine the catastrophic consequences of having a wrong sequence delivered to you by an unprofessional service provider.

You may know, hybridoma cells may contain pseudogenes and mRNAs encoding non-functional antibody genes, which might be accidentally amplified by the primer pairs intended to clone the target antibody. Moreover, it is even harder to clone the right light chain, due to the aberrant light chain and endogenous Ig mutations. In order to make sure the cloned cDNA fragments are derived from the antigen-binding antibody, we usually recommend expressing the sequenced antibody fragment (scFv or Fab), even full-length IgG to validate its authenticity using ELISA or SPR assay. We always employ 5'RACE and 3'RACE to amplify the antibody gene in order to avoid any mutations introduced by degenerate primer sets.

Below is GenScript's standard sequencing procedure.

## Standard Sequencing Procedure:



## Six reasons to choose GenScript's quality antibody sequencing service:

- Guaranteed accuracy
- Low viability of hybridoma cells? GenScript can do it!
- Impurity of hybridoma cells? GenScript can do it!
- Endogenous Ig mutations? GenScript can do it!
- Not enough hybridoma cells? GenScript can do it!
- Aberrant kappa chain? GenScript can do it!

After sequencing over 1,500 antibodies with 100% success rate, GenScript has gained invaluable experience and become the best in antibody sequencing. Try GenScript, you won't regret it.

### A. Express Sequencing Services

Sequencing Services	Delivery Time *	Deliverable
Variable domain & leader sequence sequencing	10 days	<ul style="list-style-type: none"><li>• Detailed work performance report</li><li>• Sequence data</li></ul>
Full length antibody sequencing	15 days	<ul style="list-style-type: none"><li>• Alignments of the heavy and light chains</li><li>• Plasmid containing antibody coding sequence</li></ul>

### B. Standard Sequencing Services

Sequencing Services	Delivery Time *	Deliverable
Variable domain & leader sequence sequencing	2-3 weeks	<ul style="list-style-type: none"><li>• Detailed work performance report</li><li>• Sequence data</li></ul>
Full length antibody sequencing	3-4 weeks	<ul style="list-style-type: none"><li>• Alignments of the heavy and light chains</li><li>• Plasmid containing antibody coding sequence</li></ul>

\* Our record is 6 days for full length antibody sequencing, and delivery time largely depends on the right isotype& species information provided by customers.

[www.genscript.com](http://www.genscript.com)