

Customer: Your Company
Project: Your Favorite Antigen

Cell Line: Your Hybridoma

Sequencing ID: SEQ0000

CONFIDENTIAL

Sequencing Overview

Productive Immunoglobulin Domain Sequence	Clones Sequenced	V Domain Sequence Identity	Isotype from Sequence
V _H	≥5	100%	IgG1
V _L	≥5	100%	Kappa

Recommended Analysis Tools

We recommend the following free online tools for DNA-sequence analysis of immunoglobulin variable regions:

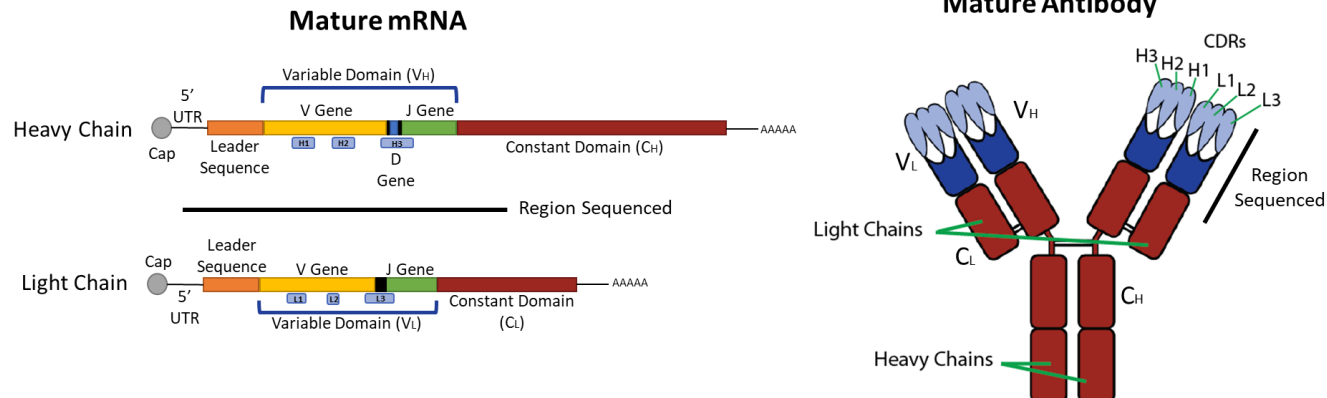
NCBI [Nucleotide BLAST](#)

[IMGT/V-Quest program](#)

NCBI [IgBLAST](#)

Note: Be aware that if you copy sequence directly from this pdf, your text will contain paragraph returns that must be removed prior to BLAST analysis.

Regions Sequenced



Heavy Chain Sequence

DNA Sequence

Leader sequence (underlined) is translated and targets the nascent polypeptide to the endoplasmic reticulum (ER). It is cleaved during translocation into the ER and is not part of the mature antibody.

ATGGAAAGGCACTGGATCTTTCTTCTTCTGTTTTAGTAACTGCAGGTGTCCACTCCgaggttcagctccagcagctctgggactgtgctggcaaggcctggggctcaggaagatgtcctgcaagactctggctacacattaccagctactggatgactgggtaaacagaggcctggacaggtctggaatggataggggctattatcctggaaatagtatactagctacaaccagaagtcaaggccaaggccaactgactgcagtcacatccgccagcactgcctacatggagctcagcagcctgacaaatgaggactctgcggtctattactgtacaagatccgggggtaaccaatattactattctatggactcctggggtaaggaaactcagctaccgtctcctcag

Predicted Protein Sequence (V_H)

Complementarity determining regions (CDRs) are underlined.

EVQLQQSGTFLARPGASVKMSCKTSGYTFTSYWMHWVKQRPGGLEWIGAIYPGNSDTSYNQKFKGKAKLTAVTSASTAYMELSSLTNE^{DS}AVYYCTRSGGNQYYYSMDSWGQGTSVTVSS

Light Chain Sequence

DNA Sequence

Leader sequence is underlined.

ATGAAGTCACAGACCCAGGTCTTCGTATTTCTACTGCTCTGTGTGTCTGGTGCATGGGagtattgtgatgaccagactccaaattcctgctgtttcagcaggagacaggggtaccataacctgcaaggccagtcagattgtgagtaatgatgtagcttggtaccaacagaagtcagggcagctcctctaaactgctgatatactatgcatccaatcgctacactggagtcctctgatcgttactggcagtgatgggacggatttcacttccaccatcagcactgtgcagctgaagacctggcagtttattctgtcagcaggattataggtctcccacgttcggtgctgggaccaagctggagctgaaac

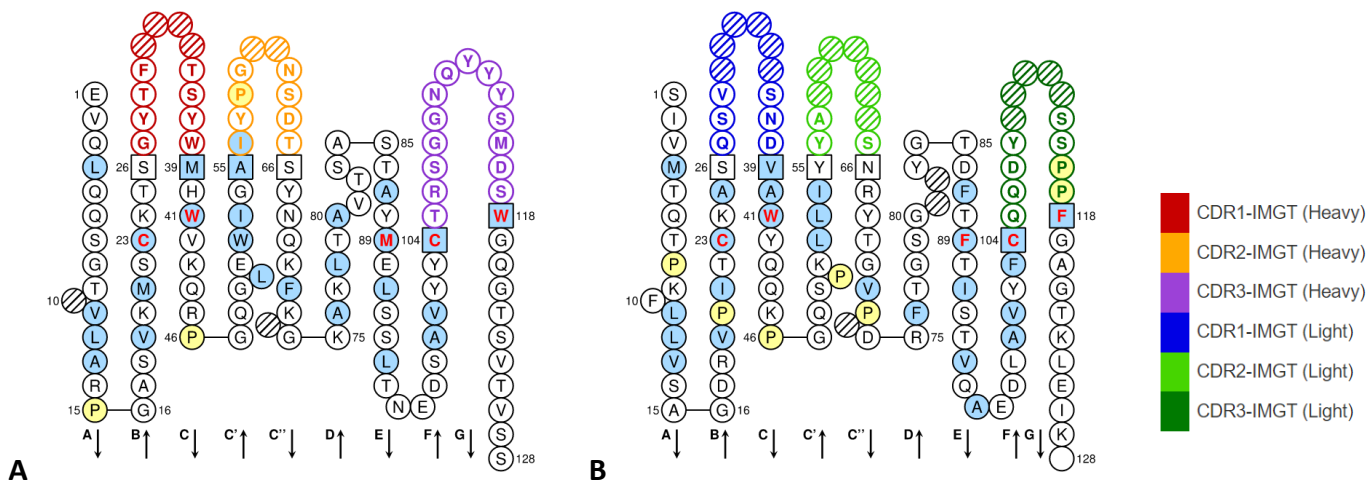
Predicted Protein Sequence (V_L)

Complementarity determining regions (CDRs) are underlined.

SIVMTQTPKFLLSAGDRVPITCKASQSVSNDVAWYQQKPGQSPKLLIYYASNRYTGVPDRFTGSGYGTDFTFITSTVQAEDLAVYFCQQDYSSPPFAGTKLEIK

Note: Additional sequence annotation, including 5' UTR, partial constant region, and V/D/J gene identity, are available upon request.

Colliers de Perles



Two-dimensional graphical representations of the predicted V-domains, generated by IMGT (Ruiz, M. and Lefranc, M.-P., Immunogenetics, 53, 857-883 (2002) PMID: 11862387) for the heavy (A) and light (B) chain. Amino acids are shown as one-letter abbreviation. Positions with hydrophobic amino acids or tryptophan (W) at a given position in more than 50% of analyzed sequences are shown in blue, with highly conserved residues emphasized with red font. All prolines (P) are shown in yellow. Squares show the limits of the CDR regions and belong to the neighboring framework region. Arrows indicate the predicted direction of the beta sheets and their different designations in 3D structures. Red font is highly conserved hydrophobic amino acids. Hatched circles or squares correspond to missing positions for these chains (but may be present in other antibodies) according to the IMGT unique numbering for V-DOMAIN.

Methods

Total cytoplasmic RNA was isolated from the hybridoma cell line culture (1×10^6 cells). RNA was reverse transcribed into cDNA using isotype-specific antisense primers and SMARTScribe Reverse Transcriptase with a template switch oligonucleotide to capture the 5' end of the mRNA. The resulting V_H and V_L cDNA was amplified by PCR, size confirmed by agarose gel electrophoresis, and cloned separately into a standard cloning vector. The sequences of no less than five colonies were aligned and the consensus sequence of these clones was analyzed for verification that the sequences could encode a productive immunoglobulin and to ensure no process contamination. Additional sequence analysis is available upon request.

Important Notes

To our knowledge, the sequence reported here is accurate.

These results and the information contained in this report are for research use only. They are not intended for diagnostic or therapeutic use.

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