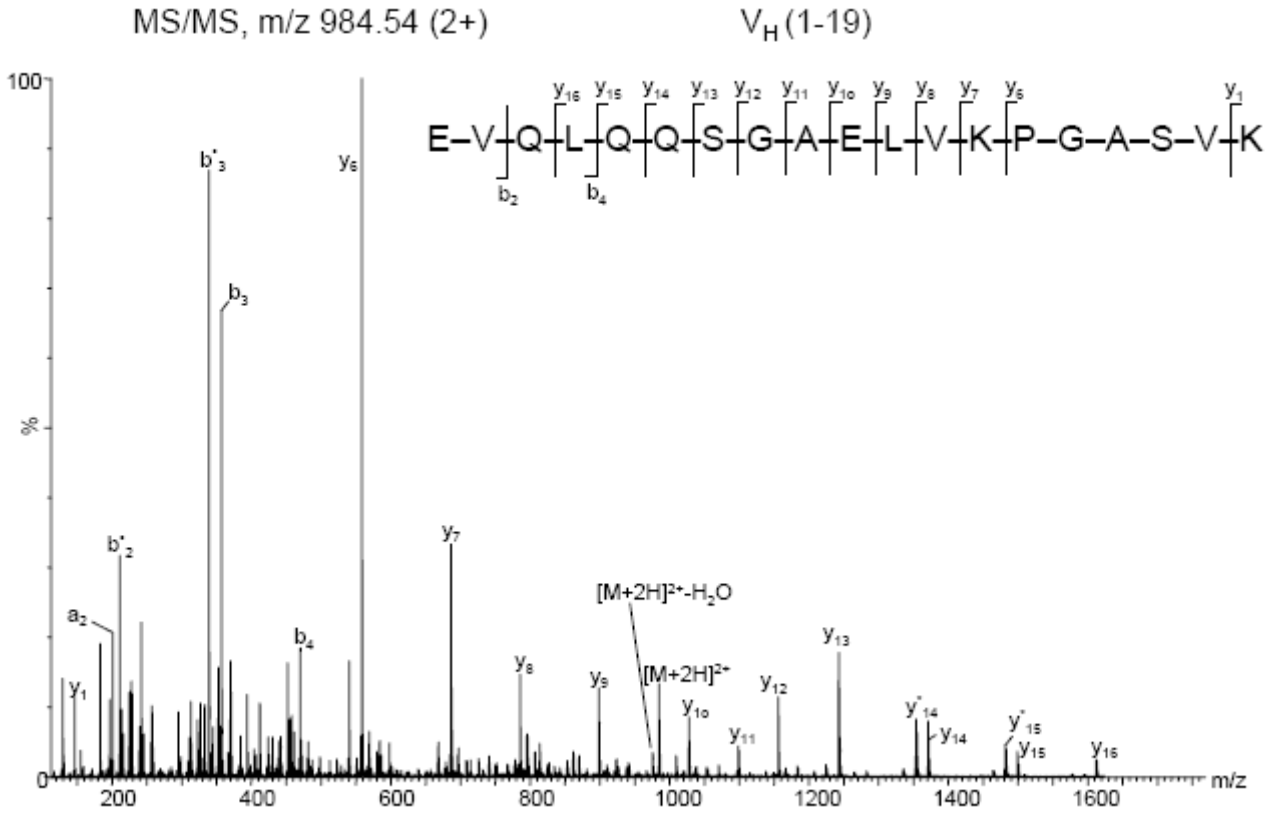

Fig. S1 Fragment mass spectrum of the precursor ion m/z 984.54 (2+) observed in the heavy chain tryptic digest assigned to the N-terminal peptide V_H(1-19) indicated at the top (right). The asterisk (*) denotes loss of ammonia. The empty circle (°) denotes loss of water.

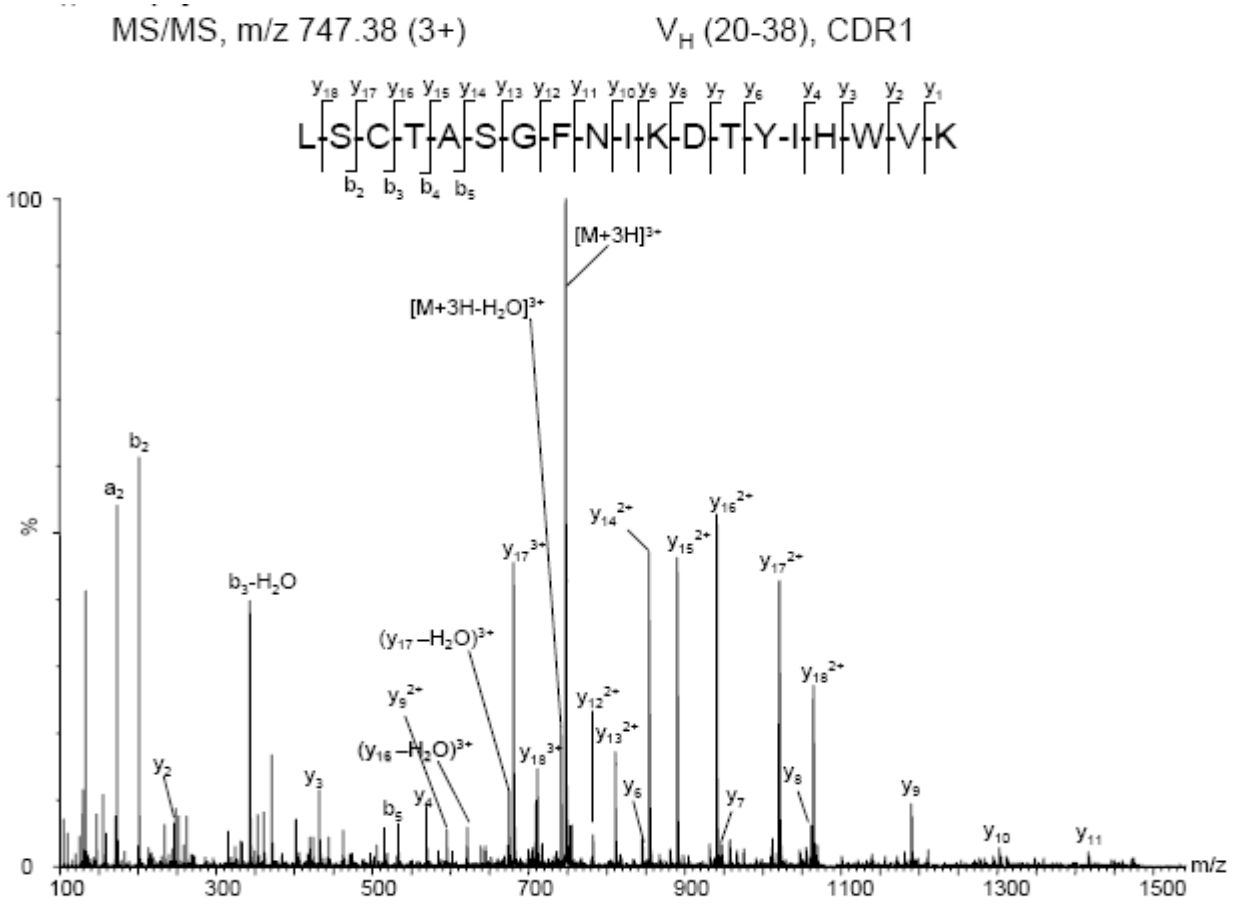

Fig. S2 Fragment mass spectrum of the precursor ion m/z 747.38 (3+) observed in the heavy chain tryptic digest assigned to the CDR1 peptide V_H(20-38) indicated at the top (right). The cysteine is alkylated.

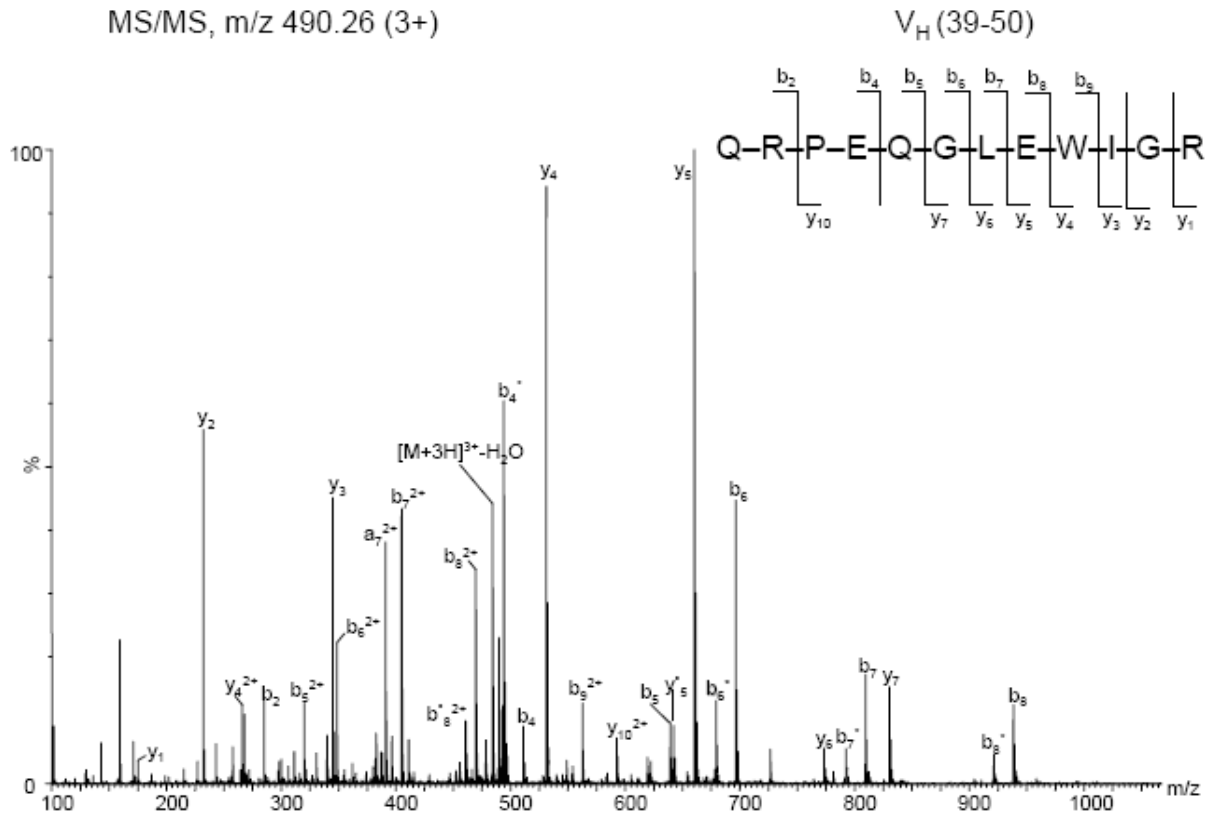

Fig. S3 Fragment mass spectrum of the precursor ion m/z 490.26 (3+) observed in the heavy chain tryptic digest assigned to the peptide V_H(39-50) indicated at the top (right). The asterisk (*) denotes loss of ammonia. The empty circle (°) denotes loss of water.

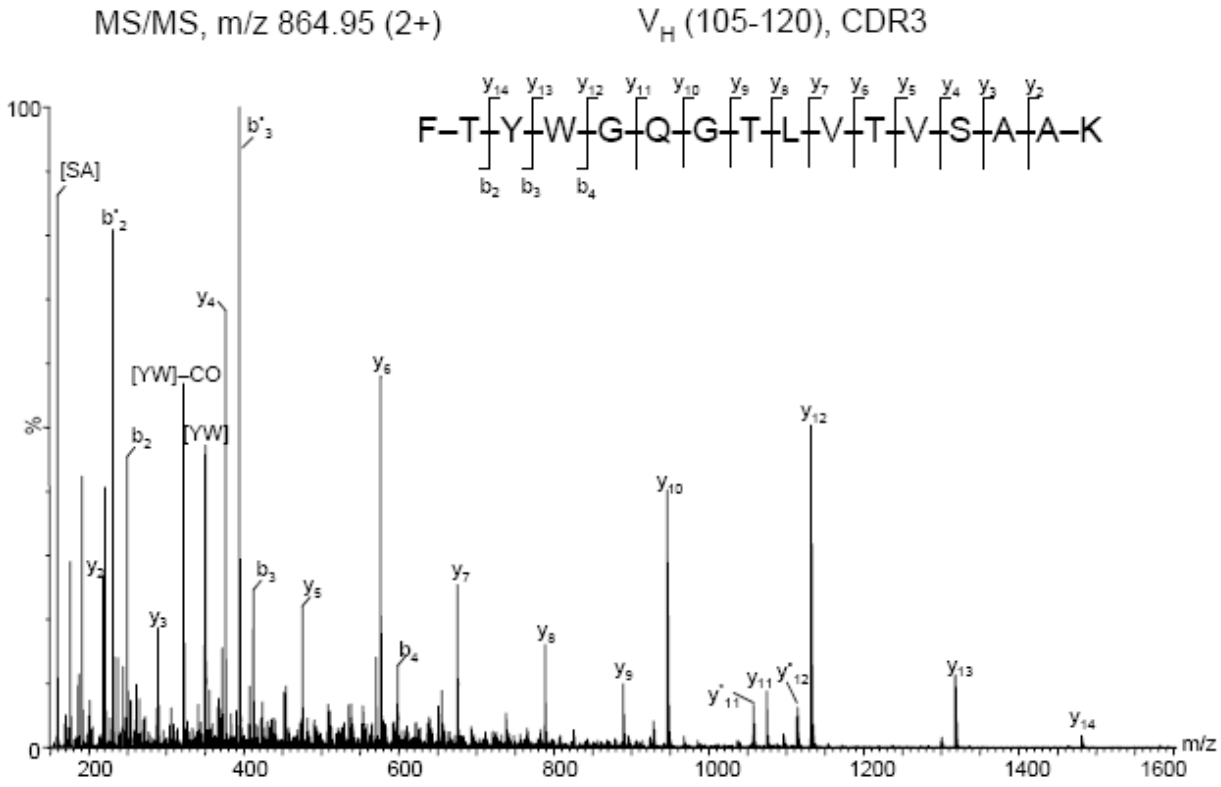

Fig. S4 Fragment mass spectrum of the precursor ion m/z 864.95 (2+) observed in the heavy chain tryptic digest assigned by *de novo* interpretation to the CDR3 peptide V_H(105-120), indicated at the top (right). Internal fragments are indicated between square brackets. The asterisk (*) denotes loss of ammonia. The empty circle (°) denotes loss of water.