

# Data Report

For a known sample from *Mus musculus* mRNA for anti-human CD19 monoclonal antibody 4G7 immunoglobulin gamma1 heavy chain (IGHG1 gene)

## The whole sequence from NCBI:

```
ctgacttaaccatggaatggagttggatatttctcttctcctgtcaggaactgcaggtgtccactctgaggtccagctgcagcagctggacctgagctgataaagcctggggc
ttcagtgaaagtgtcctgcaaggcttctggatacattcactagctatgttatgcactgggtgaagcagaagcctgggcagggccttgagtgattggatataatccttaca
atgatggtactaagtacaatgagaagttcaaaggccaaggccactgacttcagacaaatcctccagcacagcctacatggagctcagcagcctgacctctgaggactctgcg
gtctattactgtgcaagagggacttattactcggtagtagggatttgactactggggccaaggcaccactctcacagtctcctcagccaaaacgacacccccatctgtctatcca
ctggcccctggatctgctgcccactaactcctatggtgaccctgggatgctggcaagggctattccctgagccagtgcagctgacctggactctggatccctgtccagcg
gtgtgcacacctcccagctgtcctgagctgacctctactctgagcagctcagtgactgtcccctccagcactggcccagcgagaccgtcactgcaacggtgcccacc
ggccagcagcaccagggtggacaagaaaattgtgccagggattgtggtgtaagccttgcatatgtacagtcccagaagatcatctgttctatctcccccaagcccag
gatgtgctcaccattactctgactcctaaggctcagctgtgtgtgtagacatcagaaggatgatcccagggtccagctcagctggtttgtagatgattggaggtgcacacag
ctcagagcgaacccgggaggagcagttcaacagcactttcgtcagctcagtgaaactcccatcatgcaccaggactggctcaatggcaaggagttcaaatgagggtcaac
agtgcagctttccctgccccatcgagaaaaccatcctcaaaaccaaaggcagaccgaaggctccacaggtgtacacattccacctccaaggagcagatggccaaggata
aagtcagctgacctgcatgataacagacttctcctgaagacattactgtggagtgagcagtggaatgggcagccagcggagaactacaagaacactcagcccattatggac
acagatggtcttactctgctacagcaagctcaatgtgcagaagagcaactgggaggcaggaatacttccactgctctgtgttacatgagggcctgcacaaccaccatactg
agaagagcctctcccactctctgtaaatgatcccagtgctcctggagccctctggtcctacagactctgacacctacctccaccctcctgtataataaagcaccagcact
gccttgggaccctgcaataaaaaaaaaaaaaaaaa
```

VDB-100 Monoclonal Antibody Sequencing Services would provide you the following information:

### >DNA level

```
atggaatggagttggatatttctcttctcctgtcaggaactgcaggtgtccactctgaggtccagctgcagcagctggacctgagctgataaagcctggggcctcagtgaaaga
tgcctgcaaggcttctggatacattcactagctatgttatgcactgggtgaagcagaagcctgggcagggccttgagtgattggatataatccttacaatgatgtact
aagtaaatgagaagttcaaaggccaaggccactgacttcagacaaatcctccagcacagcctacatggagctcagcagcctgacctctgaggactctgcggtcttactgt
cgaagagggacttattactcggtagtagggatttgactactggggccaaggcaccactctcagctcctca
```

### >Amino acid level

```
MEWSWIFLFLLSGTAGVHS EVQLQQSGPELIKPGASVKMSCKASGYFTSYVMHWWKQKPGQGLEWIGYINPYNDGTKYNEKFKGK
ATLTSKSSSTAYMELSSLTSEDSAVYYCARGTYYYGSRVFDYWGQGTTLVSS
```

1-19: leader sequence (signal peptide)

20-140: variable domain

**For a known sample from Mus musculus mRNA for anti-human CD19 monoclonal antibody 4G7 immunoglobulin kappa light chain (IGK gene)**

**The whole sequence from NCBI:**

```
cttttgatcaagttctcagaatgaggtgcctagctgagttcctggggctgcttgctgctggatccctggagccattggggatattgtgatgactcaggctgcaccctctacct
gtcactcctggagagtcagatccatctcctgcaggtctagtaagagtcctctgaatagtaatggcaacacttactgtattggttctgcagaggccaggccagtctcctcagctc
ctgatatacggatgtccaacctgcctcaggagctccagacaggttcagtgccagtgaggcaggaactgcttcacactgagaatcagtagagtgaggctgaggatgtgg
gtgtttactgtatgcaacatctagaatacctggtcaggttcggtgctgggaccaagctggagctgaaacgggctgatgctgcaccaactgtatccatctcccaccatcagtg
agcagttaacatctggaggtgcctcagtcgtgcttctgaacaactctaccccaaagacatcaatgtcaagtggagattgatggcagtgaaacgacaaaatggcgtcctgaa
cagttggactgatcaggacgaaaagacagcacctacagcatgagcagcacctcagcttgaccaaggacgagatgaacgacataacagctatacctgtgaggccactcac
aagacatcaactcaccattgtcaagagcttcaacaggaatgagtgtagagacaaaggtcctgagacgccaccagctcccagctccatcctatctccttcttaaggctt
ggaggcttccccacaagcagcactcactgtgctggtgctccaaacctcctccacctcctcctcctccttcttggtttatcatgctaataattgcagaaaatattcaat
aaagtgagctttgactgaaaaaaa
```

VDB-100 Monoclonal Antibody Sequencing Services would provide you the following information:

**>DNA level**

```
cttttgatcaagttctcagaatgaggtgcctagctgagttcctggggctgcttgctgctggatccctggagccattggggatattgtgatgactcaggctgcaccctctacct
gtcactcctggagagtcagatccatctcctgcaggtctagtaagagtcctctgaatagtaatggcaacacttactgtattggttctgcagaggccaggccagtctcctcagctc
ctgatatacggatgtccaacctgcctcaggagctccagacaggttcagtgccagtgaggcaggaactgcttcacactgagaatcagtagagtgaggctgaggatgtgg
gtgtttactgtatgcaacatctagaatacctggtcaggttcggtgctgggaccaagctggagctgaaa
```

**>Amino acid level**

```
MRCLAEFLGLLVLWIPGAIGDIVMTQAAPSIPVTPGESVSI SCRSSKLLNSNGNTLYWFLQRPQSPQLLIYRMSNLASGVPDRFSGS
GSGTAFTLRISRVEAEDVGVVYCMQHLEYPFTFGAGTKLELK
```

1-20: leader sequence (signal peptide)

21-132: variable domain