

FIG. 1

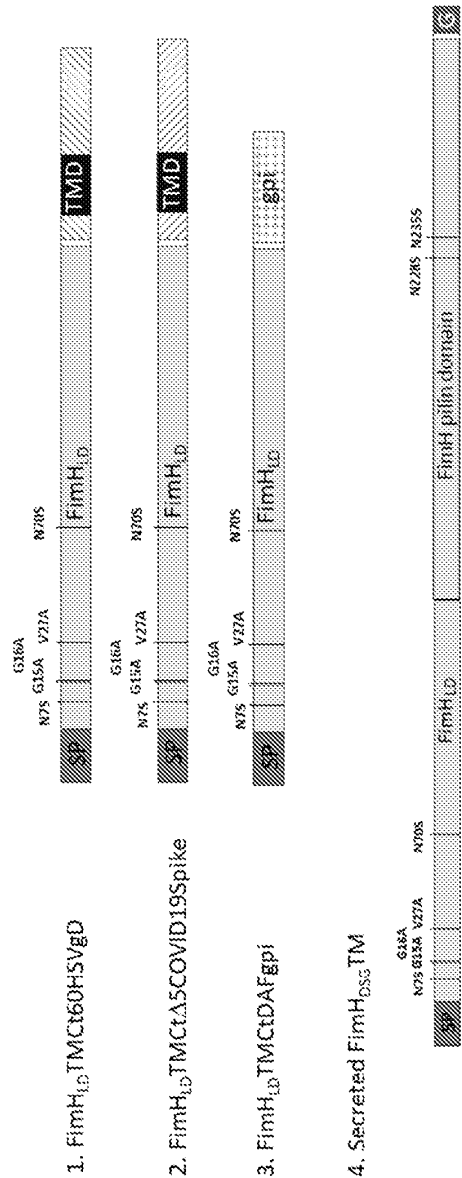


FIG. 2

> FimH_{Lb}TMCt60HSVgD

ATGGAGACCGACACACTGCTGCTGTGGGTGCTTTTGTGTGGGTACCAGGGTCCACGGGATTTGCCTGCA
AGACCGCCTCTGGAACGCGATACCCATAGGGGCTGCGAGTGCGAACGTCTATGTCAACCTCGCGCCAGC
CGTAAATGTAGGACAAAATCTCGTGGTTGACTTGAGTACGCAGATCTTCTGCCACAATGACTACCTGAG
ACTATAACGGATTATGTTACTCTGCAGCGGGGTTCTGCGTATGGGGGCGTTTTGTCTCTTTTTCCGGTA
CTGTGAAATACAGCGGTTCTCTTATCCATTCCCTACTACGAGCGAACTCCCAGGGTCGTTTATAATTC
CCGCACGGACAAGCCTTGCCCGGTTGCTCTTTACCTCACGCCTGTTAGCAGCGCGGGCGGTGTCGCTATC
AAGGCTGGTAGTCTCATCGCGGTCTTGATTTTGAGGCAGACTAACAACTACAATAGTGATGATTTCCAAT
TTGTGTGGAACATTTATGCGAATAATGACGTAGTGGTTCCAACGGGAGGATCATCAGGTGGTGGAGCCAC
ACCTAATAATATGGGCTTGATTGCAGGGGCGGTGGGTGGCAGTCTCTTGGCAGCGTTGGTAATTTGCGGG
ATTGTCTACTGGATGCGACGGCATACTCAAAAAGCGCCAAAGCGAATTAGGCTGCCTCATATACGGGAAG
ACGACCAGCCCTCTTCCCATCAACCGCTGTTCTACTAGTAA (SEQ ID NO: 66)

Translation:

METDTLLLWVLLWVPGSTGFACKTASGTAIPIGAASANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
TITDYVTLQRGSAYGGVLSSFSGTVKYSGSSYPFPTTSETPRVVYNSRTDKPWPVALYLTPVSSAGGVAI
KAGSLIAVLILRQTNNYNSDDFQFVWNIYANNDVVVPTGGSSGGGATPNNMGLIAGAVGGSLLAALVICG
IVYWMRRHTQKAPKRIRLPHIREDDQPSHQPLFY** (SEQ ID NO: 67)

> FimH_{Lb}TMCtΔ5Spike

ATGGAGACCGACACACTGCTGCTGTGGGTGCTTTTGTGTGGGTCCAGGGTCAACCGGGTTTGCCTGCA
AAACTGCGTCAGGAACGGCGATACCGATAGGCGCTGCATCTGCGAATGTCTACGTGAATCTGGCACCCGC
AGTGAACGTAGGACAGAACTTGGTCGTAGACTTGTCCACCCAGATATCTGTCAACGATTACCCAGAG
ACCATAACGGATTACGTTACCCTTCAGCGCGGCTCAGCGTACGGAGGAGTTCTTTCATCTTTTAGCGGAA
CGGTCAAGTATAGCGGCAGCTCCTACCCTTCCCACTACTAGTGAGACTCCAAGAGTGGTATATAACAG
TAGAACCGGATAAACCGTGGCCCGTTGCCCTCTACCTGACCCCGGTGAGTAGCGCTGGGGGCGTTGCAATA
AAAGCAGGGAGCCTTATTGCGGTTCTTATACTCCGCCAAACAACTATAACTCAGACGACTTTCAAT
TCGTTTGGAACTCTACGCCAACACGATGTCGTGGTGCCCACTGGAGGCTCCTCTGGCGGCGGTTACGA
GCAATATATCAAATGGCCGTGGTATATATGGCTCGGATTCATCGCGGGATTGATAGCGATCGTTATGGTG
ACCATCATGTTGTGTTGTATGACTTCCTGCTGTTTCATGCCTCAAGGGATGTTGCTCATGCGGATCATGCT
GCAAGTTTGACGAAGACGATTCCGAGCCTGTTCTTAAAGGGGTGTGATAG (SEQ ID NO: 68)

Translation:

METDTLLLWVLLWVPGSTGFACKTASGTAIPIGAASANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
TITDYVTLQRGSAYGGVLSSFSGTVKYSGSSYPFPTTSETPRVVYNSRTDKPWPVALYLTPVSSAGGVAI
KAGSLIAVLILRQTNNYNSDDFQFVWNIYANNDVVVPTGGSSGGGYEQYIKWPWYIWLGFIAGLIAIVMV
TIMLCCMTSCCSCLKGCCSCGSCCKFDEDDSEPVKGV** (SEQ ID NO: 69)

FIG. 2 (cont.)

>FimH_{LD}TMctDAFgpI

ATGGAGACCGACACACTGCTGCTGTGGGTGCTTTTGTGTGGGTGCCCGGTTCTACCGGATTTGCGTGTA
AGACCGCCTCTGGGACTGCGATACCCATCGGTGCTGCATCCGCTAACGTGTATGTGAATCTCGCCCCAGC
CGTCAACGTAGGTCAAACTTGGTTGTGACTTGTCTACGCAGATATTTGTCAATGATTACCCAGAA
ACGATTACCGACTATGTTACACTCCAACGGGGCAGCGCCTATGGCGGTGTAAGTCTCAGCAGTTTTCAGTGGTA
CAGTGAATATTTCTGGCAGCAGTTATCCATTTCCACAACTAGCGAAACCCCTAGAGTTGTATATAACTC
ACGAACGGACAAGCCTTGGCCGGTGGCGCTCTATCTGACCCCGGTTAGCTCAGCAGGGGGAGTGGCAATT
AAGGCGGGGAGTTTGATCGCCGTGCTTATACTGCGCCAAACCAACAATTACAATAGTGACGATTTTCAAT
TTGTCTGGAACATATACGCCAATAACGACGTCGTTGTGCCAACTGGAGGTAGTTCTGTTGGCGGTCCCAA
CAAAGGGAGTGGAACAACATCCGGGACTACGCGATTGCTTTCCGGCCATACTTGCTTTACACTGACTGGC
CTGTTGGGGACGCTCGTTACGATGGGTCTGCTCACCTGATGA (SEQ ID NO: 70)

Translation:

METDTLLLWVLLWVPGSTGFACKTASGTAIPIGAASANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
TITDYVTLQRGSAYGGVLSSFSGTVKYSGSSYPFPTTSETPRVVYNSRTDKPWPVALYLTPVSSAGGVAI
KAGSLIAVLILRQTNNYNSDDFQFVWNIYANNDVVVPTGGSSGGGPNKGSSTSGTTRLLSGHTCFTLTG
LLGTLVMTGLLT** (SEQ ID NO: 71)

>Secreted FimH-DSG-TM (N-deglycosylated):

ATGGAGACCGACACACTGCTGCTGTGGGTGCTGCTGCTGTGGGTGCCCGGCTCCACCGGCTTCGCTTGCA
AGACAGCCAGCGGAACCGCCATCCCTATCGGCGCAGCAAGCGCCAACTCTACGTGAATCTGGCTCCCGC
AGTGAACGTGGGACAGAATCTGGTGGTGGATCTGAGCAGCCAGATCTTCTGCCACAATGACTACCCCGAG
ACCATCACAGACTACGTGACACTGCAGAGAGGAAGCGCCTACGGCGGCGTGCTGAGCAGCTTCAGCGGAA
CCGTGAAATACAGCGGCTCCAGCTACCCCTTCCCCACAACCAGCGAGACCCCTAGAGTGGTCTATAACTC
TAGAACAGACAAGCCTTGGCCCGTGGCTCTGTATCTGACCCCGTGTCCAGCGCTGGAGGAGTGGCCATC
AAGGCCGGCAGCCTCATCGCCGTCTCTATTCTGAGGCAGACCAACAATAACAACAGCGACGACTTCCAGT
TCGTGTGGAACATCTACGCCAACAACGACGTGGTGGTCCCCACCGGCGGATGTGACGTGTCCGCCAGAGA
CGTGACCGTGACACTGCCCGATTACCCCGGAAGCGTCCCTATCCCTCTGACAGTGTACTGCGCCAAGAGC
CAAAATCTGGGCTACTATCTGTCCGGAACCAAGCCGACGCGCGGAACTCCATCTTCACCAACACCGCCA
GCTTTTCCCCCGCCCAAGGAGTGGGAGTCCAGCTGACAAGAAGCGGCACCATCATCCCCGCCAGCAACAC
AGTGTCTCTGGGCGCTGTGGGCACATCCGCTGTGTCTCTGGGACTGACAGCTAATTATGCCAGAACCGGA
GGCCAAGTGACCGCTGGAAATGTGCAGAGCATTATTGGGGTGACCTTCGTGTACCAGGGCGGAAGTAGCG
GAGGCGGTGCCGACGTGACCATCACCGTGAACGGCAAGGTGGTGGCCAAGTGATGA (SEQ ID NO:
72)

Translation:

METDTLLLWVLLWVPGSTGFACKTASGTAIPIGAASANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
TITDYVTLQRGSAYGGVLSSFSGTVKYSGSSYPFPTTSETPRVVYNSRTDKPWPVALYLTPVSSAGGVAI
KAGSLIAVLILRQTNNYNSDDFQFVWNIYANNDVVVPTGGCDVSARDVTVTLPDYPGSPVPIPLTVYCAKS
QNLGYLSTTADAGNSIFTNTASFSPAQGVGVQLTRSGTIIIPASNTVSLGAVGTSVAVSLGLTANYARTG
GQVTAGNVQSIIGVTFVYQGGSSGGGADVITIVNGKVVAK** (SEQ ID NO: 73)

FIG. 3

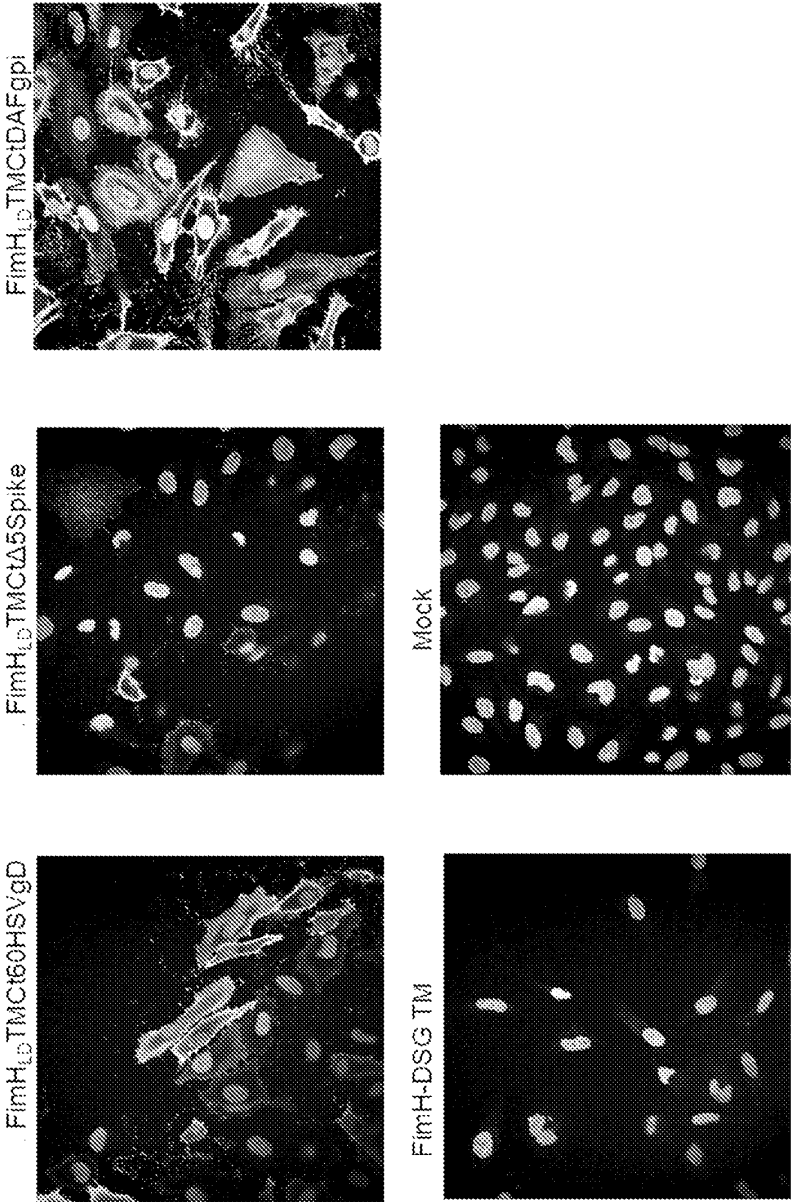


FIG. 4A

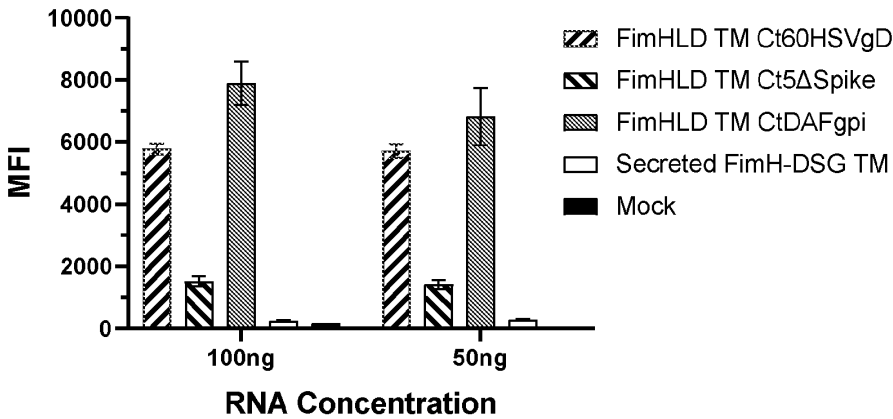


FIG. 4B

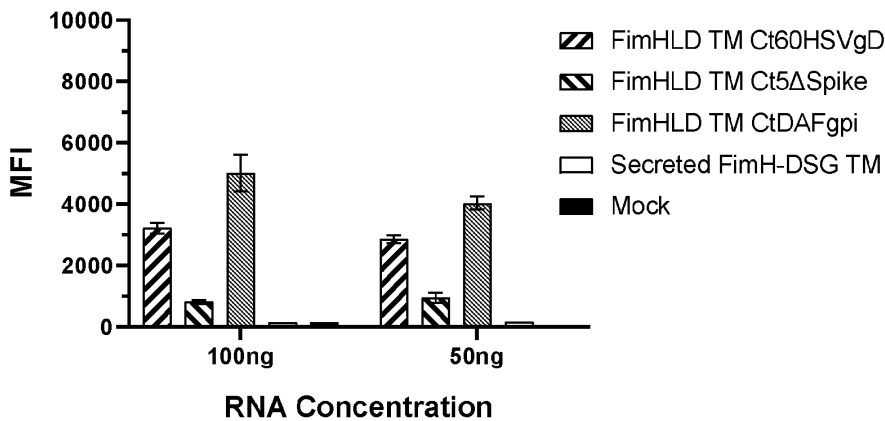


FIG. 5A

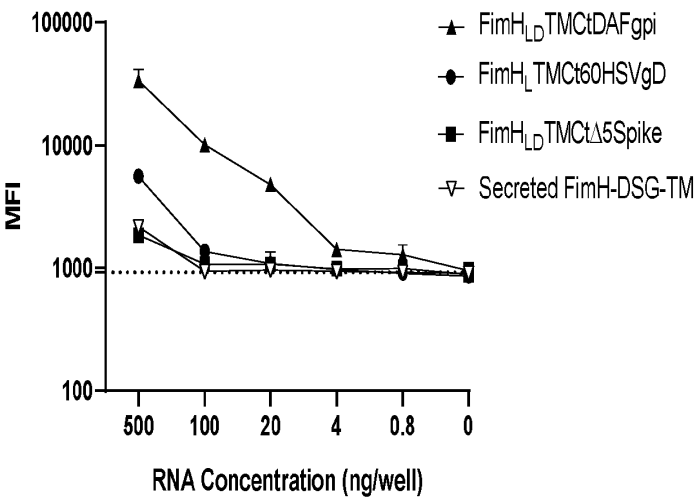


FIG. 5B

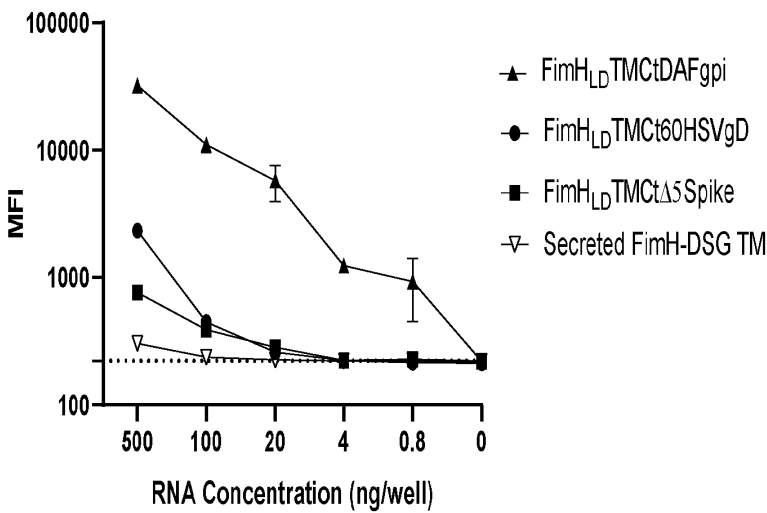


FIG. 6

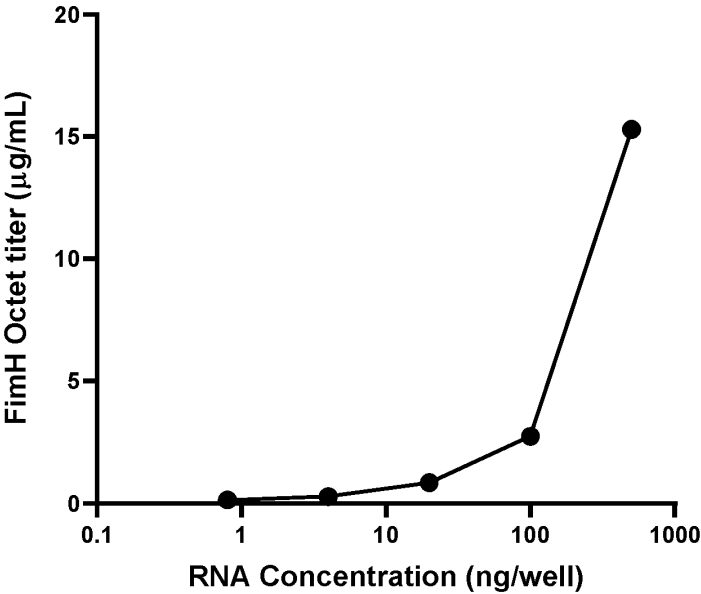


FIG. 7

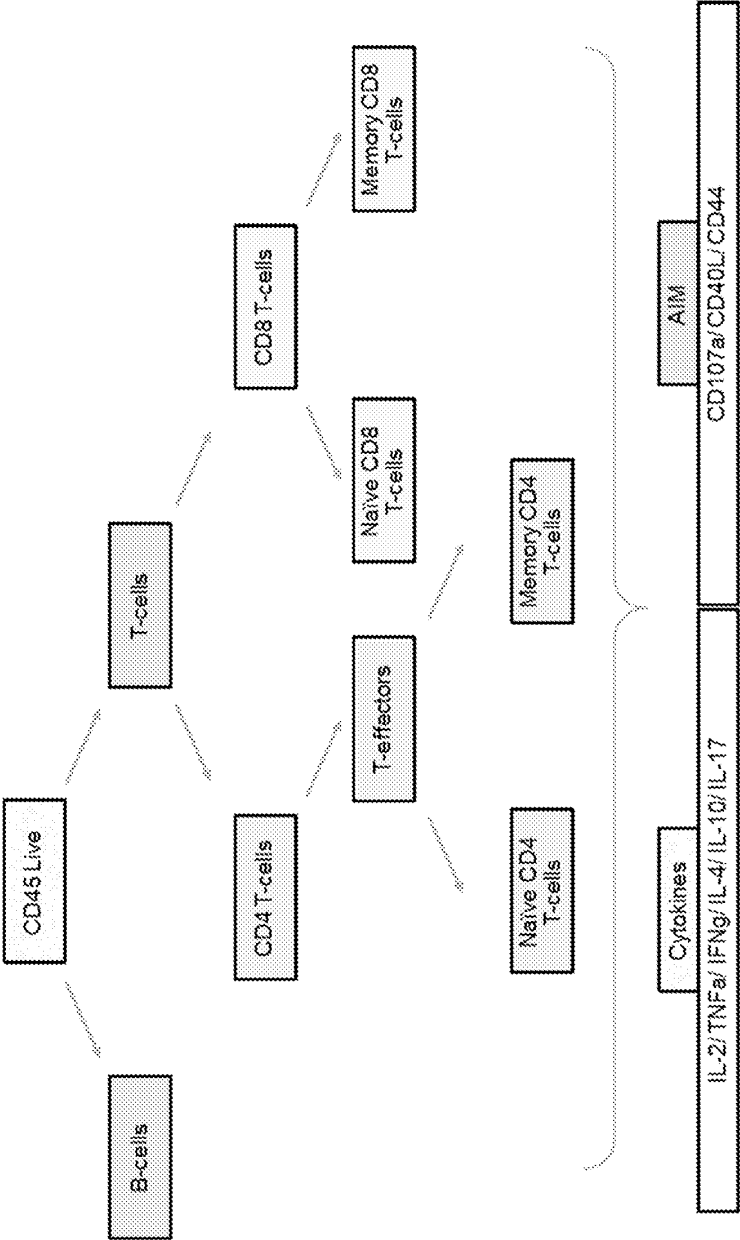


FIG. 8A

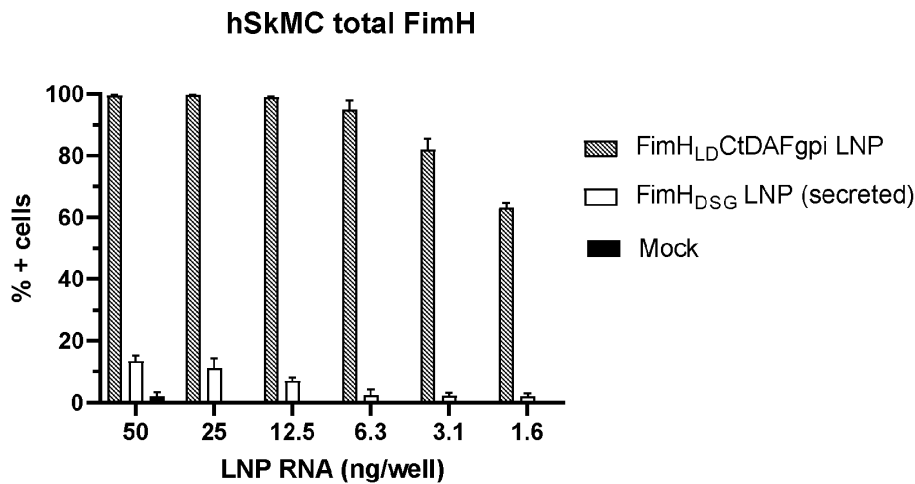
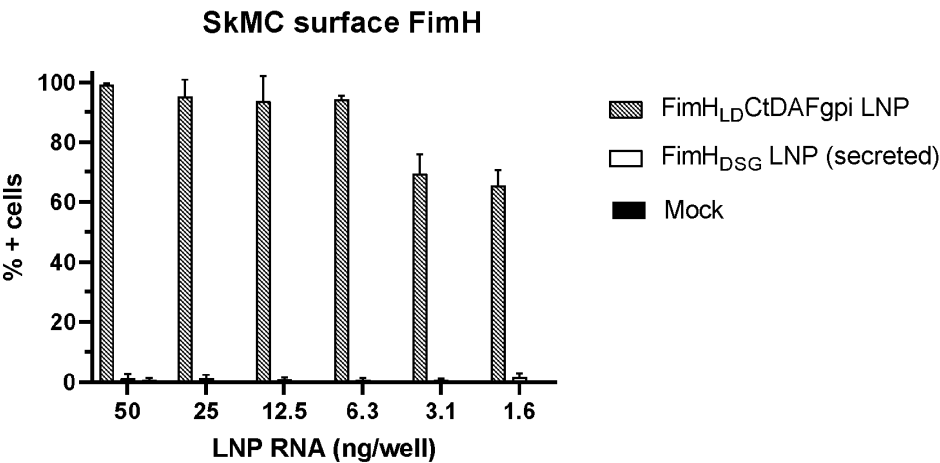


FIG. 8B



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FIG. 9A

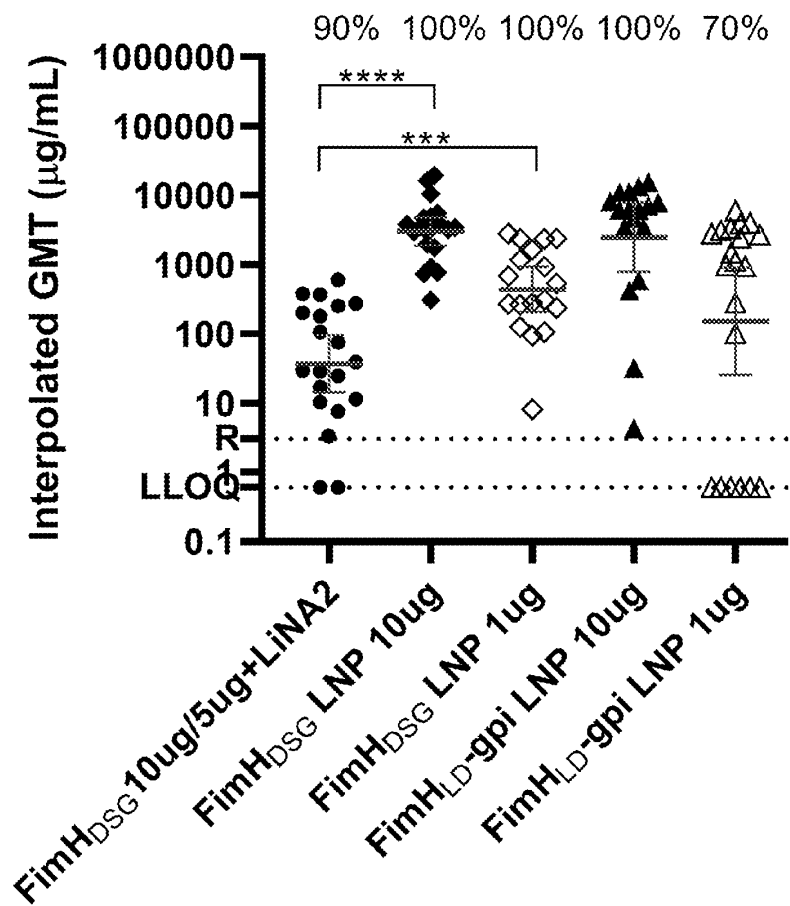


FIG. 9B

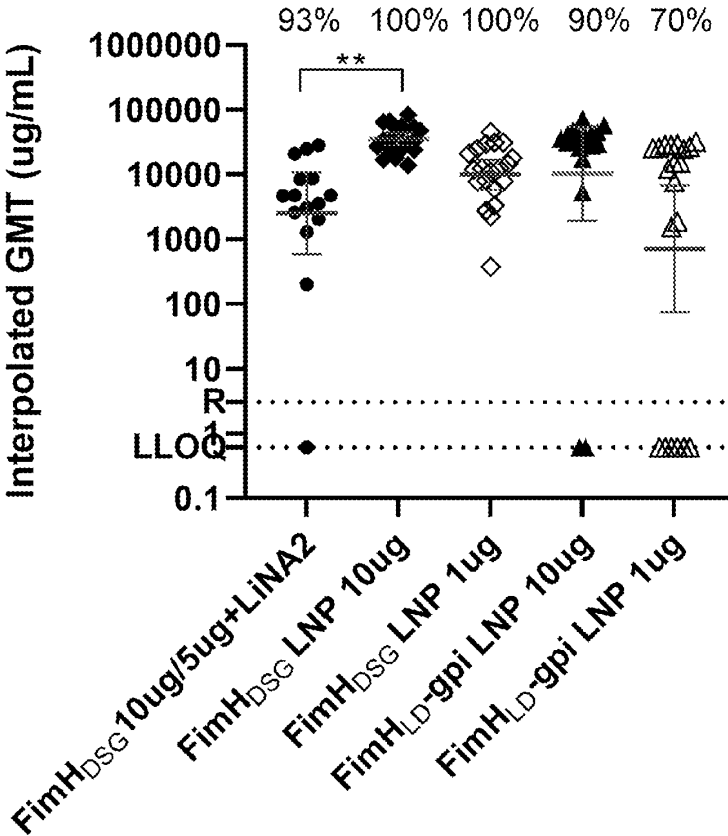


FIG. 10

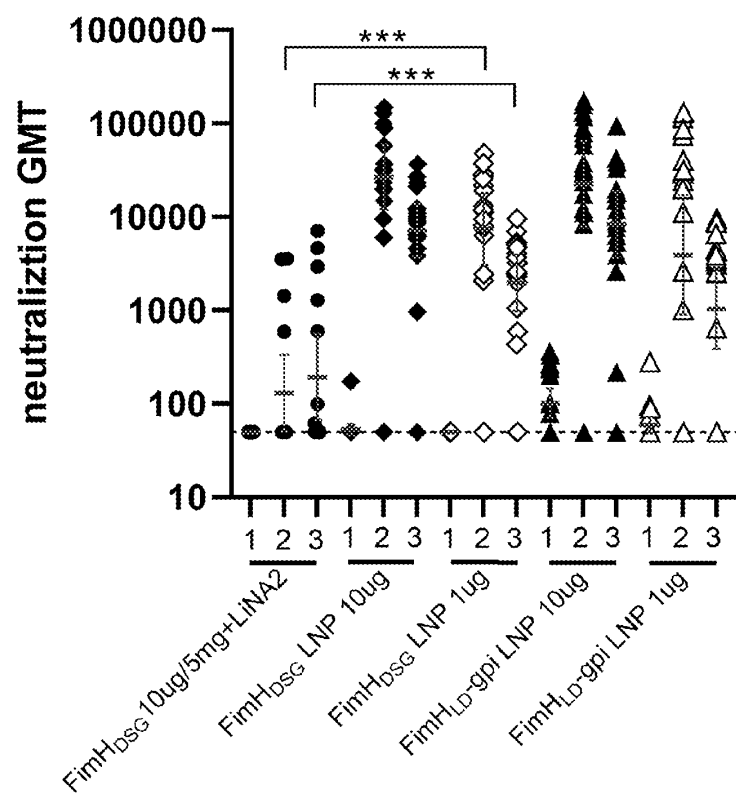


FIG. 11

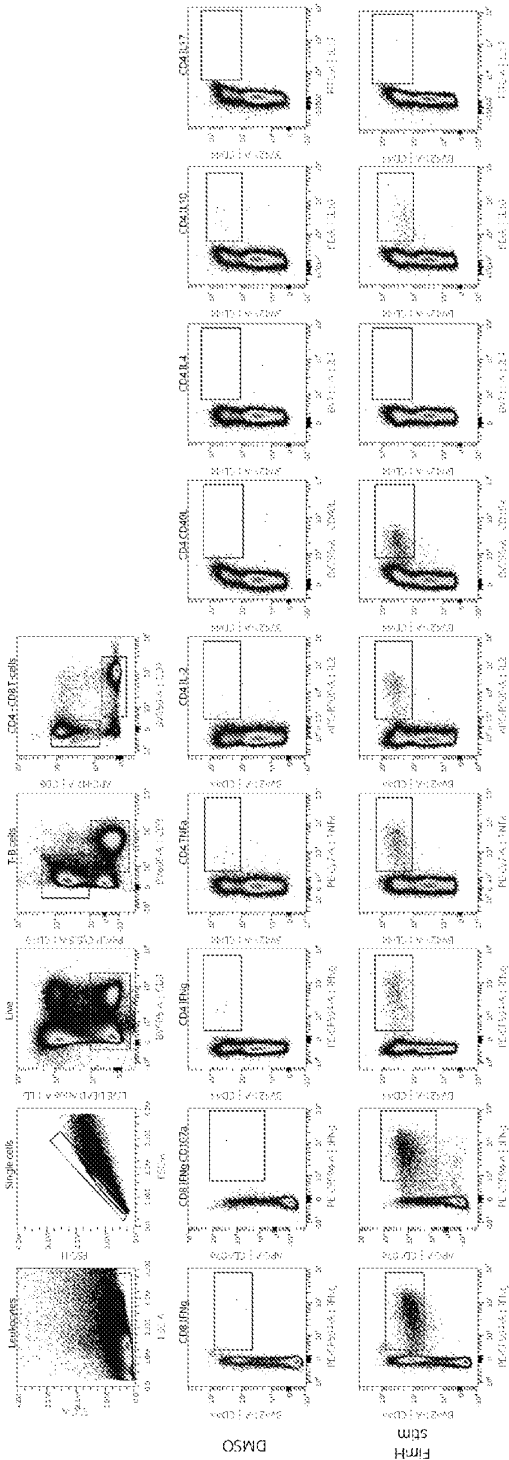


FIG. 12

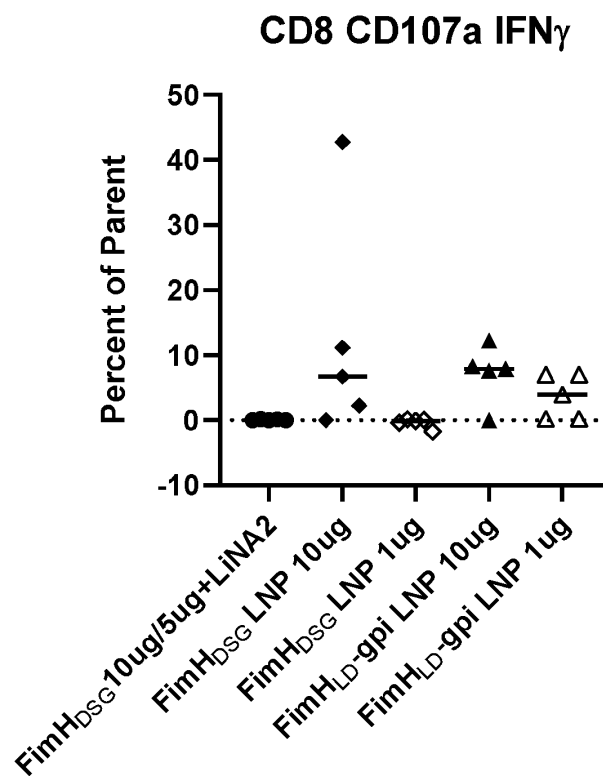


FIG. 13A

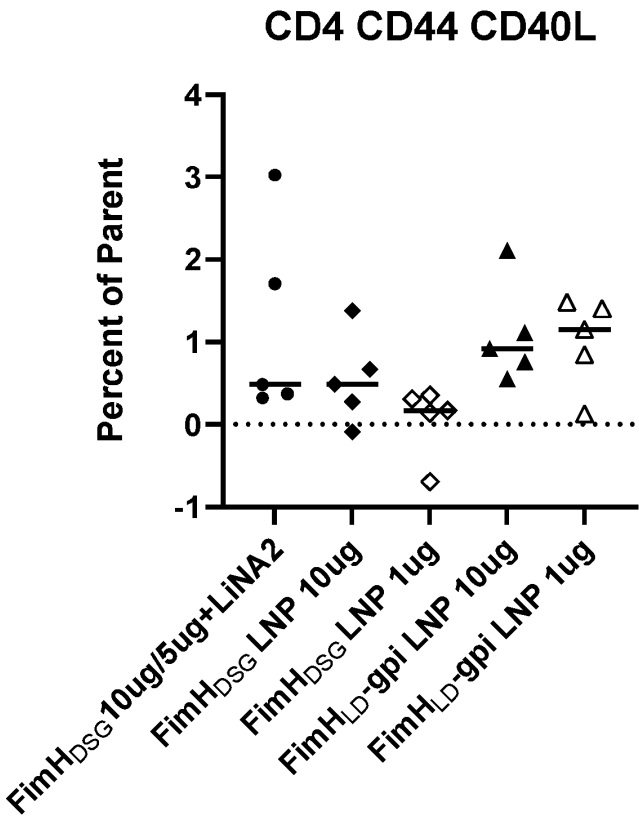


FIG. 13B

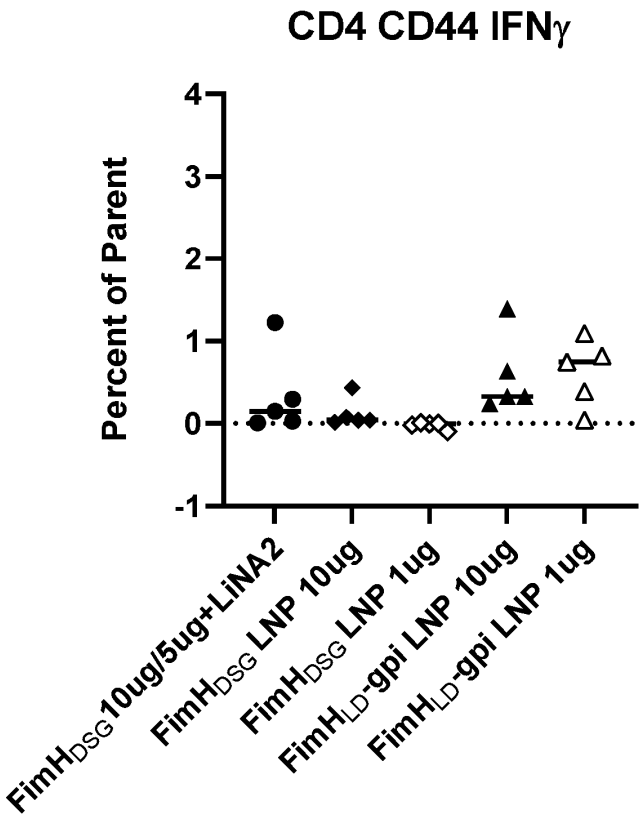


FIG. 13C

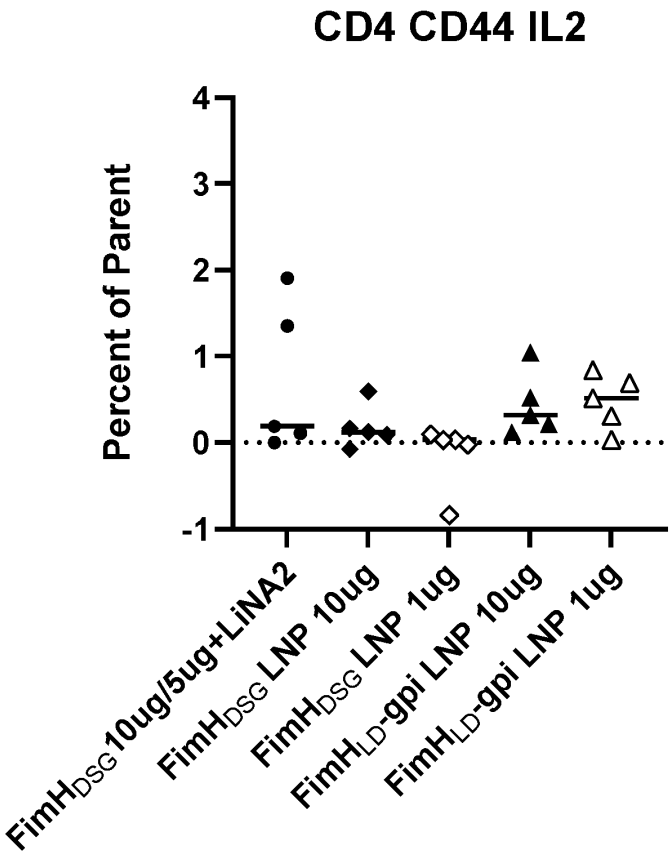


FIG. 13D

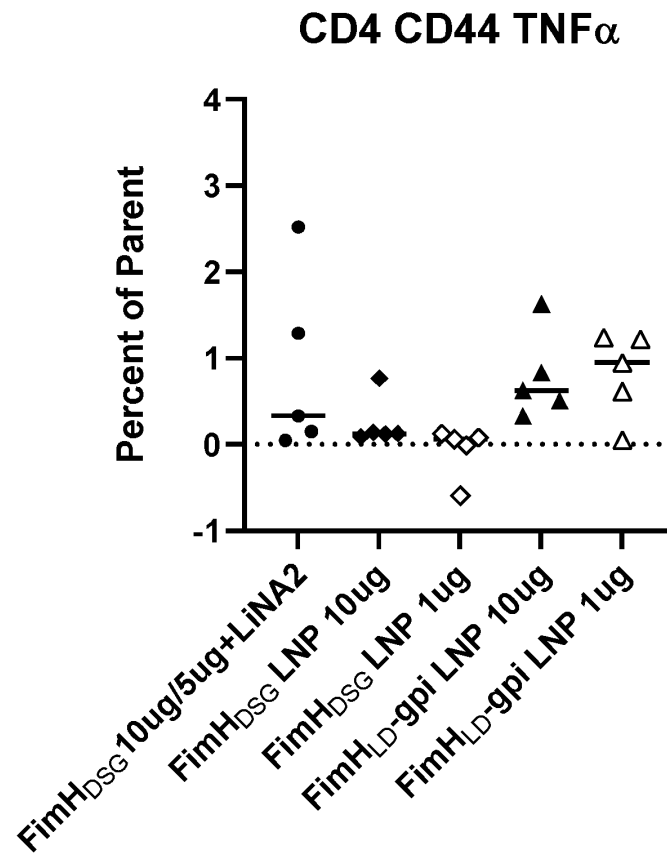


FIG. 14A

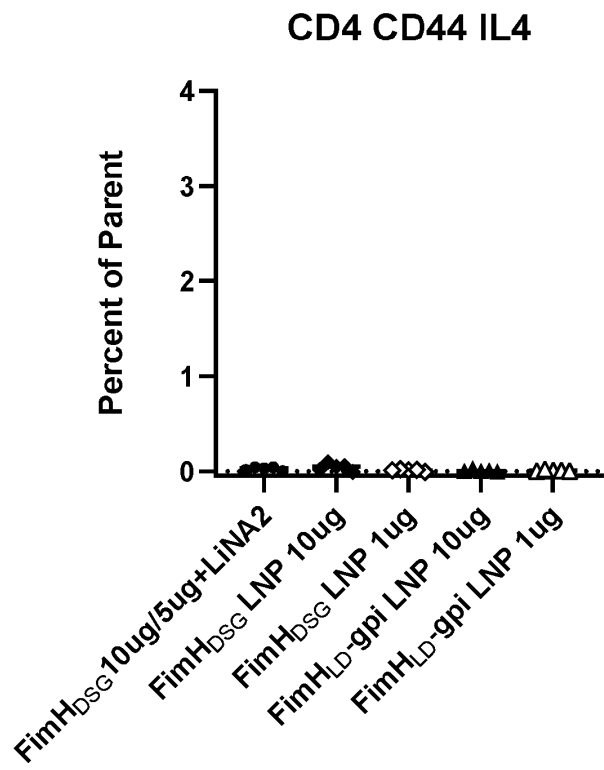


FIG. 14B

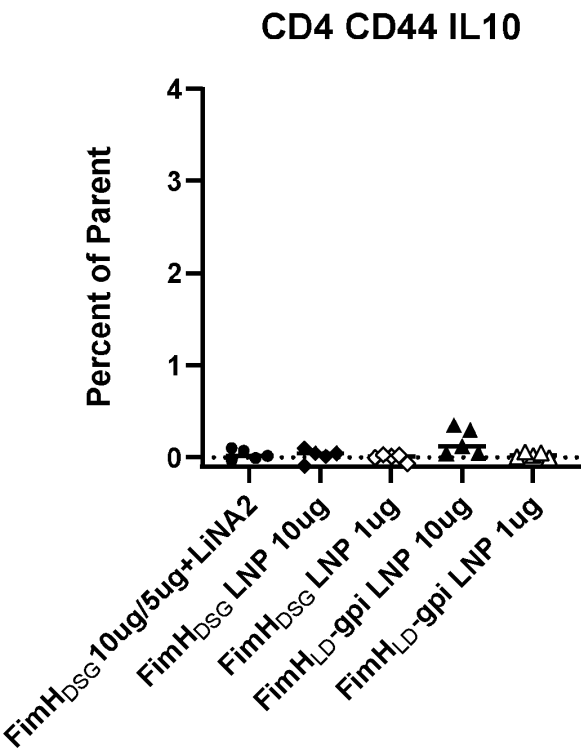


FIG. 14C

