

(A)

1 MKALLPTAAAGLLLLAAQPAMAEVQLVESGGGLVQPGGSLRLSCADSGYAFNSSWMNWVR 60
PeIB leader **VH1**

61 QAPGKGLEWVGRIPYDGDSDSNYNGKFEGRRAISADKSSSTAYLQMNSLRAEDTAVYYCAR 120

121 SGLLRYAMDYWGQGLTVTVSSASFKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPTV 180
CH1

181 SWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSLGTQTYICNVNHKPSNTKVDKKVE 240

241 PKSCSAADYKDDDDKAG^{*} 257
FLAG tag

1 MKLTHHLRRTGAALLLAGILLAGCDQSSSEAQPADIQMTQTPSSLSASVGDRVTVTCRAS 60
NlpA leader **6 aa** **VL**

61 QGIRNYLNWYQQKPGKAPKFLIYYTSRLLPGVPSRFSGSGSGTDYTLTINSLEQEDIATY 120

121 YCQQGNTPPWTFGGGTKVEIKRTTAAAPSVFIPPSDEQLKSGTASVWCLLNNFYPREAK 180
Ck

181 VQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPV 240

241 TKSFNRGECVDHHHHHHHGAAEQKLISEEDLNGRAA^{*} 275
His tag

(B)

| | PeIB | FR1 | CDR H1 | FR2 | CDR H2 |
|-----------|------------------------|------------------------------|-------------|------------------|---------------|
| ML8.1 hum | MKALLPTAAAGLLLLAAQPAMA | [EVQLVESGGGLVQPGGSLRLSCADSG] | YAFNSSWMN | [WVRQAPGKGLEWVG] | RIYPGDGDSNYNG |
| Clone #3 |V..... | [.....] |D..... | [.....] | |
| Clone #28 | | [.....R.....] | | [.....] | |

| | FR3 | CDR H3 | FR4 | CH1 |
|-----------|---------------------------------------|-------------|---------------|----------------|
| ML8.1 hum | KFEG[RAISADKSSSTAYLQMNSLRAEDTAVYYCAR] | SGLLRYAMDY | [WGQGLTVTVSS] | ASFKGPSVF..... |
| Clone #3 |[.....] | | [.....] | |
| Clone #28 |[.....] |F..... | [.....] | |