

**Figure S1. DNA sequence of mAb donor construct and location of features.**

|                                   |            |
|-----------------------------------|------------|
| OVA 5' homology region:           | 1–2791     |
| Lysozyme signal:                  | 2792–2845  |
| Heavy chain of the anti-HER2 mAb: | 2846–4194  |
| Furin 2A peptide:                 | 4195–4278  |
| Lysozyme signal:                  | 4279–4332  |
| Light chain of the anti-HER2 mAb: | 4333–4977  |
| bGH polyadenylation signal:       | 4982–5199  |
| Neomycin resistance gene unit:    | 5206–6896  |
| OVA 3' homology region:           | 6908–10102 |

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1  GTCGACCTTA AGTCCTCAGA CTTGGCAAGG AGAATGTAGA TTTCTACAGT ATATATGTTT
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121 TAGGAAAGTA ATTCTGCTTA ACAGAGATTG CAGTGATCTC TATGTATGTC CTGAAGAATT
181 ATGTTGACT TTTTCCCTC ATTTTAAAT CAAACAGTGC TTTACAGAGG TCAGAATGGT
241 TTCTTTACTG TTTGTCAATT CTATTATTC AATACAGAAC AATAGCTTCT ATAACTGAAA
301 TATATTTGCT ATTGTATATT ATGATTGTCC CTCGAACCAT GAACACTCCT CCAGCTGAAT
361 TTCACAATTC CTCTGTCATC TGCCAGGCCA TTAAGTTATT CATGGAAGAT CTTTGAGGAA
421 CACTGCAAGT TCATATCATA AACACATTTG AAATTGAGTA TTGTTTTGCA TTGTATGGAG
481 CTATGTTTTG CTGTATCCTC AGAAAAAAG TTTGTTATAA AGCATTACACA CCCATAAAAA
541 GATAGATTTA AATATTCCAG CTATAGGAAA GAAAGTGCCT CTGCTCTTCA CTCTAGTCTC
601 AGTTGGCTCC TTCACATGCA CGCTTCTTTA TTTCTCTAT TTTGTCAAGA AAATAATAGG
661 TCACGTCTTG TTCTCACTTA TGTCTGCCT AGCATGGCTC AGATGCACGT TGTACATACA
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781 AACTAATAAT TGCTAATTAT GTTTTCCATC TCCAAGGTTT CCACATTTTT CTGTTTTCTT
841 AAAGATCCCA TTATCTGGTT GTAACCTGAAG CTCATGGAA CATGAGCAAT ATTTCCCAGT
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961 CCAGAATTTA AAATAATAT TTGCTCTCCA TTCAATCCA AATGGACCTA TTGAAACTAA
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