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Figure 1

IGKV4-1 DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQPPKLLIYWASTR
 280.46.3.4 DIVMTQSPSSLAVSVGEKVTMSCKSSQSLLYSSNQKNCLAWYQQKPGQSPKLLIYWASSR
 *****.*****:**:*.**:*****:*****:*** *****.*****.*

IGKV4-1 ESGVPDRFSGSGSGTDFTLTITSSLQAEDVAVYYCQQYYSTP
 280.46.3.4 ESGVPDRFTGSGSGTDFTLTITSSVKTEDLAVYYCQQYFSYPFTFGSGTKLEIK
 *****:*****:***:*****:*** *

Figure 2

IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSNYSWVRQAPGKGLEWVSVIY-SGGSTYY
280.46.3.4 EVQLQQSGPELVRPGTSVKISCKASGYSLTADYMNWVKQSP~~EES~~LEWIGEINPSTGTTT
**** :** **:** *::** *****:***.***:* :.***. * * *.* *

IGHV3-66 ADSVKGRFTISRDNKNTLYLQMNSLRAEDTAVYYCAR---FDYWGQGLTVTVSS
280.46.3.4 NQKFEAKATLTVDQSSNTAYLQLTSLTSEDSAVYYCARFDAYFDYWGQGT~~TV~~TVSS
:.... *:** **:*** *****:***:***** ***** *

Figure 3

IGKV4-1 DIVMTQSPDSLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQPPKLLIYWASTR
280.VK4-1-C DIVMTQSPDSLAVSLGERATINCKSSQSLLYSSNQKNCLAWYQQKPGQPPKLLIYWASSR
*****:*****:***

IGKV4-1 ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYYSTP
280.VK4-1-C ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYFSYPFTFGQGTKVEIK
*****:***

Figure 4

280.VH3-66.1 EVQLVESGGGLVQPGGSLRLSCAASGYSLT**ADYMN**WVRQAPGKGLEWIG**EINPSTGTTTY**
IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSNYMSWVRQAPGKGLEWVSVIY-SGGSTYY
*****:::.*.*****.: * * *: * *

280.VH3-66.1 **NQFEA**RATLTVDQSKNTAYLQMNSLRaedTAVYYCAR**FDAYFDY**WGQGTlLVTVSS
IGHV3-66 ADSVKGRFTISRDNskNTLYLQMNSLRaedTAVYYCAR----FDYWGQGTlLVTVSS
:.:. * * :. * : ***** *****

Figure 5

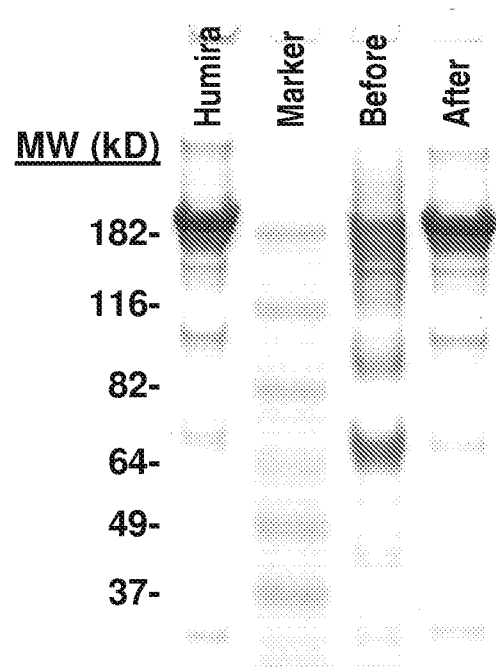
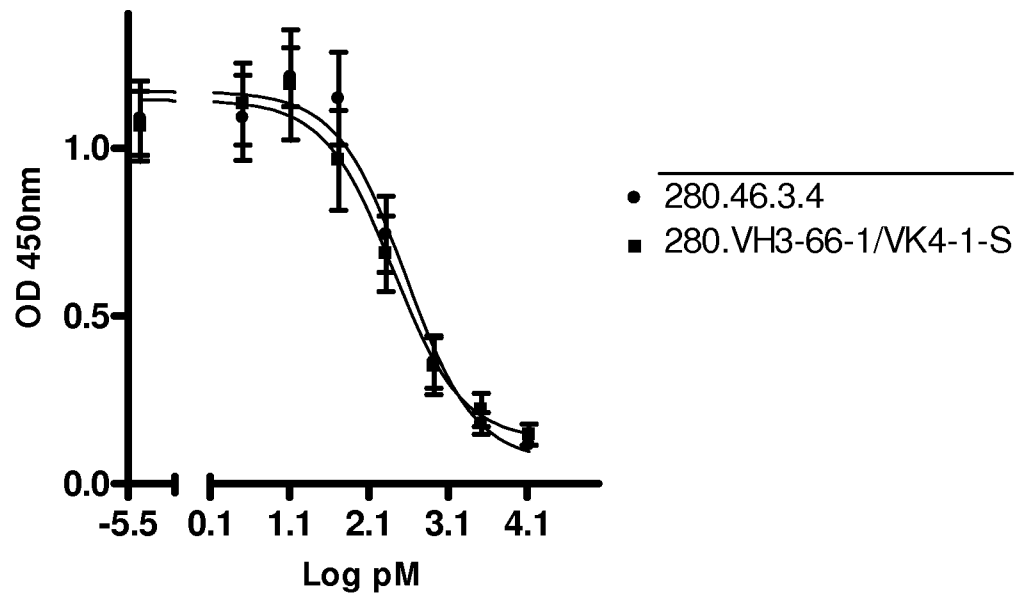


Figure 6



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Figure 7

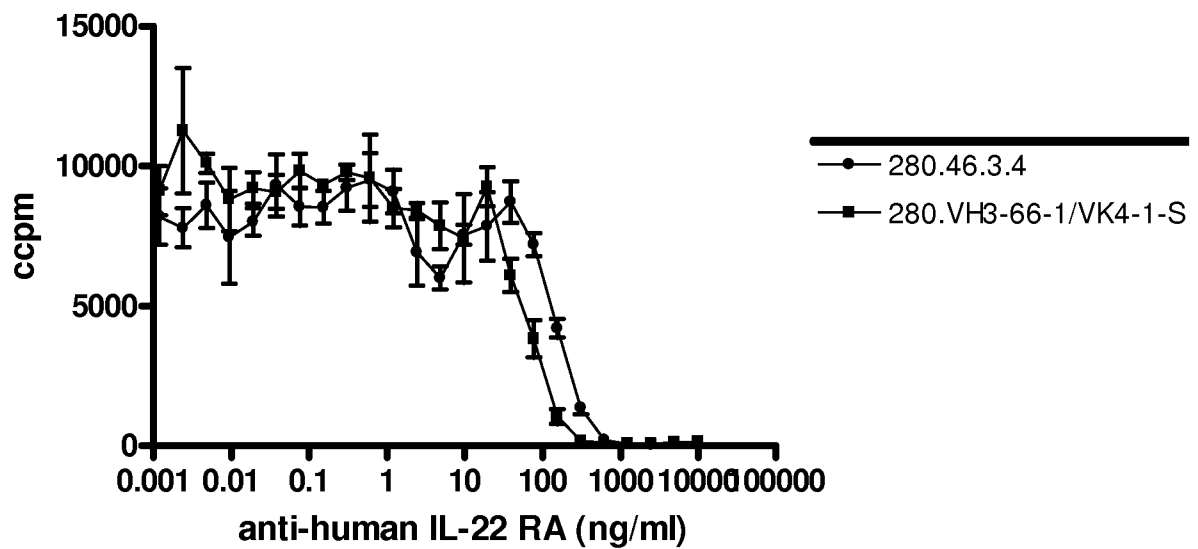


Figure 8

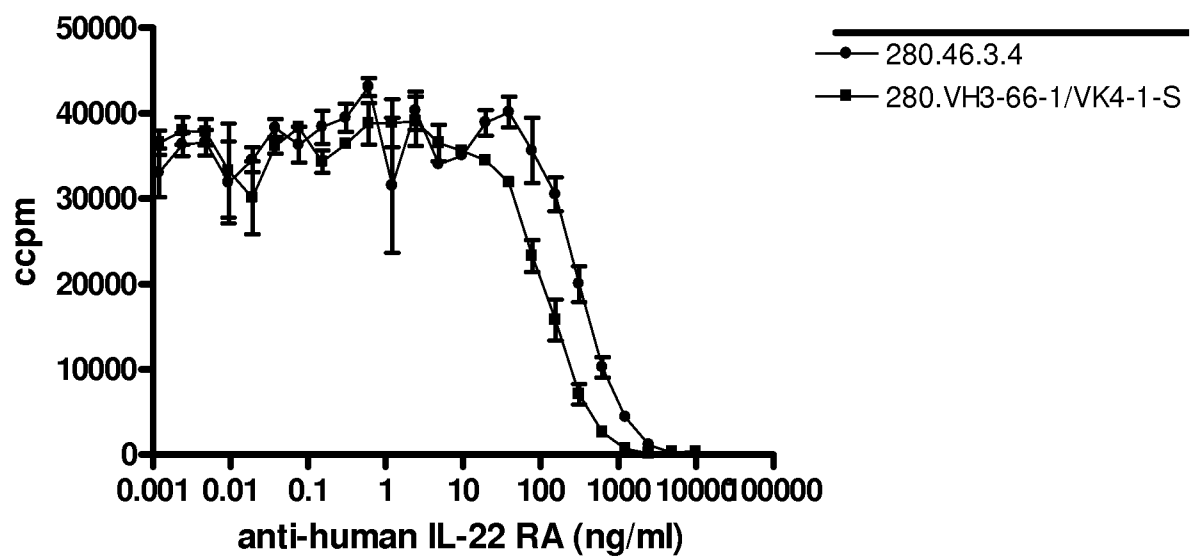


Figure 9

IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSSNYMSWVRQAPGKGLEWVSVIY-SGGSTYY
280.VH3-66-4 EVQLVESGGGLVQPGGSLRLSCAASGYSLTADYMNWVRQAPGKGLEWIGEINPSTGTTY
*****:::*.*****:.* ** *;* *

IGHV3-66 ADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR---FDYWGGQGLTVTVSS
280.VH3-66-4 NQFKGRATLSVDQSKNTAYLQMNSLRAEDTAVYYCARFDAYFDYWGQGLTVTVSS
:.* ** *;* *;* ***** *****

Figure 10

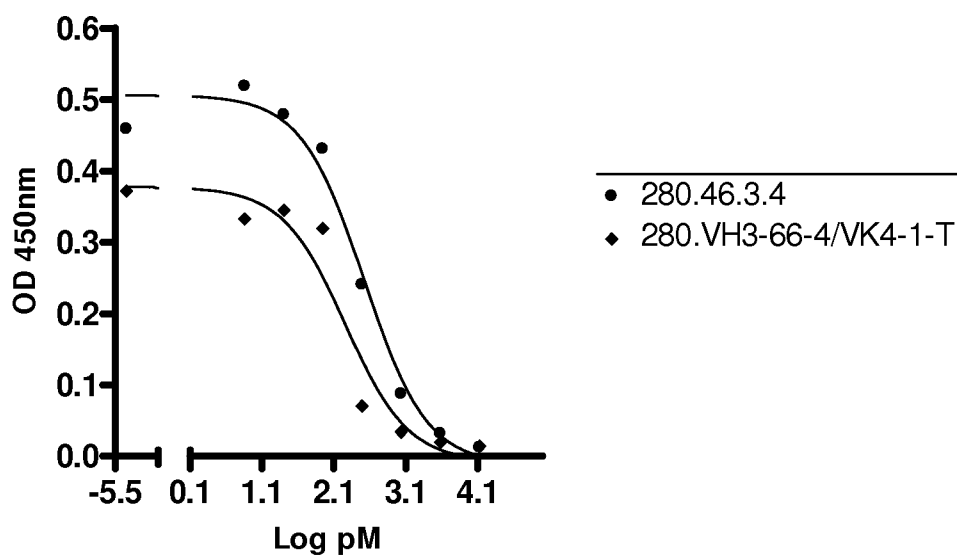
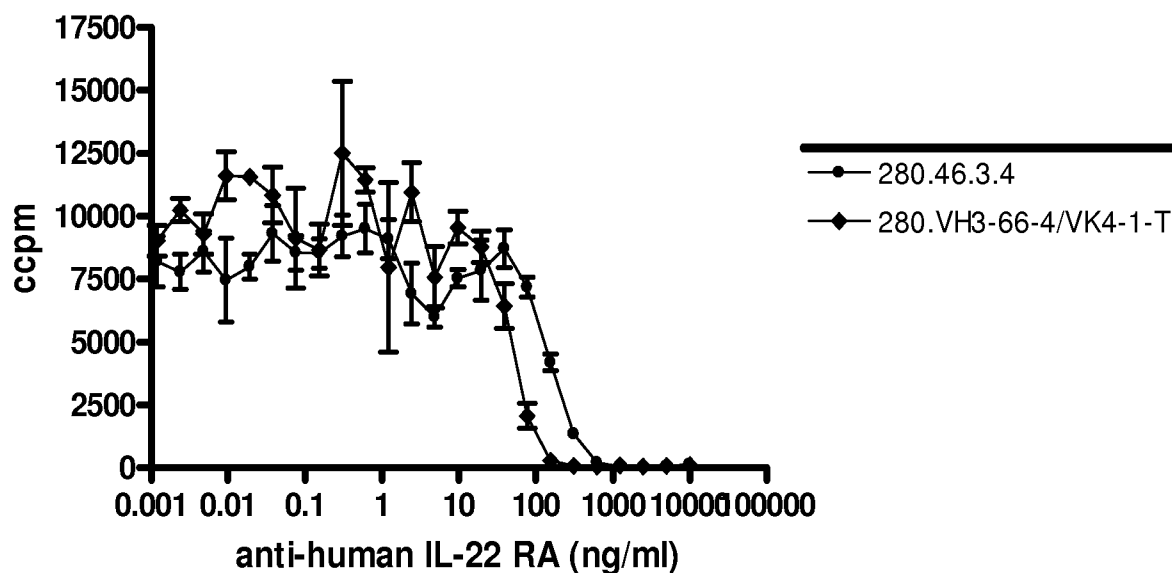


Figure 11



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Figure 12

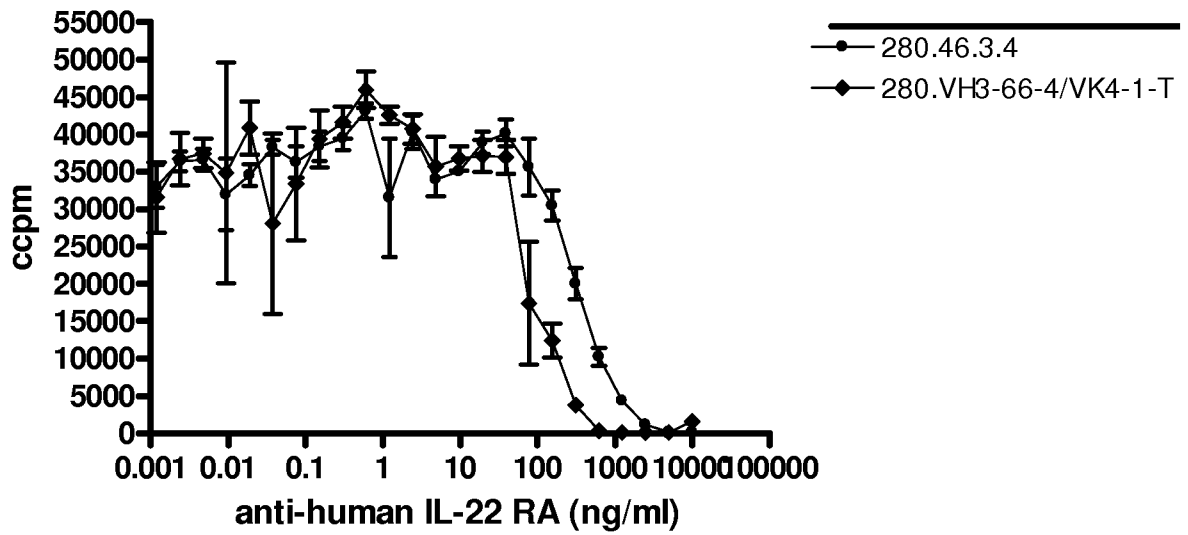
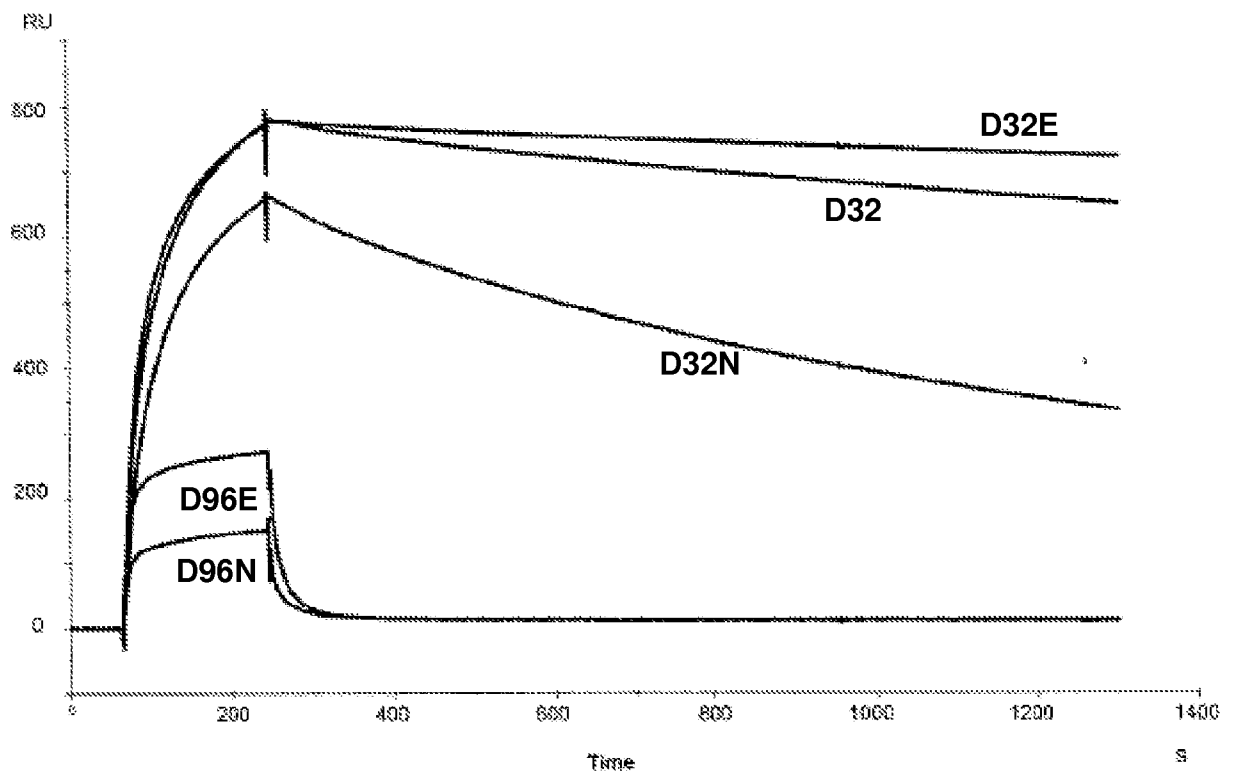


Figure 13



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Figure 14

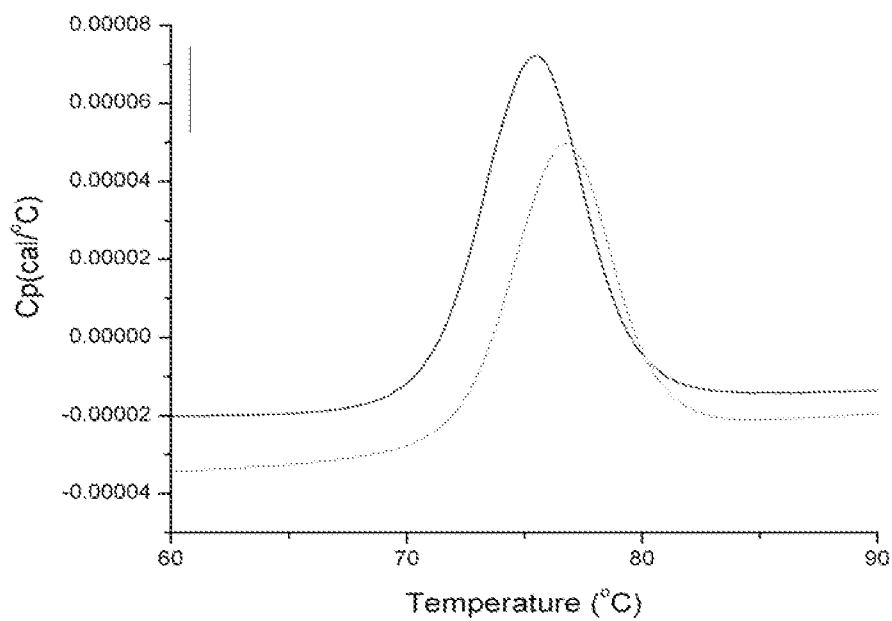


Figure 15

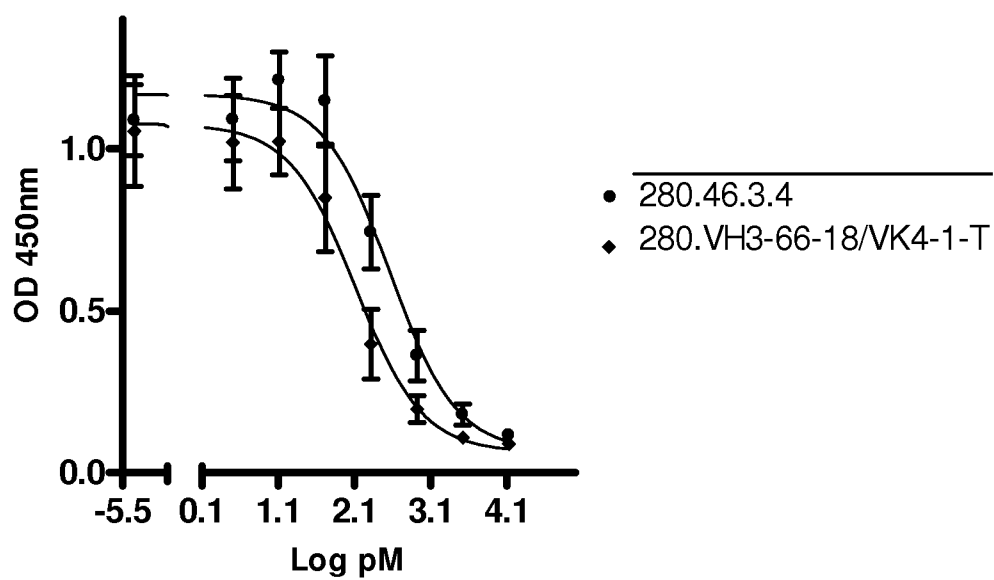


Figure 16

28-VH3-66.46 EVQLVESGGGLVQPGGSLRLSCAASGYSITAEYMNWVRQAPGKGLEWIG**EINPSTGTTTY**
IGHV3-66 EVQLVESGGGLVQPGGSLRLSCAASGFTVSSNYMSWVRQAPGKGLEWVSIY-
SGGSTYY
*****:::*.*****.:. * * *: * *

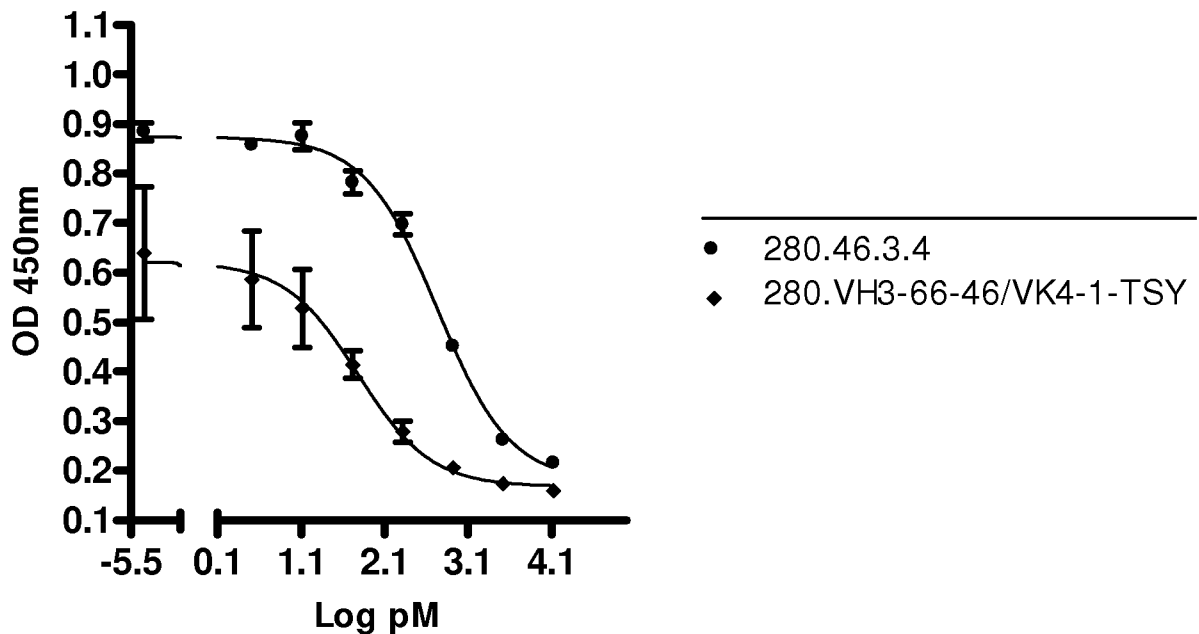
28-VH3-66.46 **NQKFKG**RFTISVDQSKNTAYLQMNSLRAEDTAVYYCAR**FDAYFDY**WGQGLVTVSS
IGHV3-66 ADSVKGRFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR----FDYWGQGLVTVSS
:..***** *:***** *****

Figure 17

IGKV4-1 DIVMTQSPDSDLAVSLGERATINCKSSQSVLYSSNNKNYLAWYQQKPGQPPKLLIYWASTR
280.VK4-1-TSY DIVMTQSPDSDLAVSLGERATINCKSSQSVLYSSNNKNCLAWYQQKPGQPPKLLIYWASSR
*****:*****:*** *****:*

IGKV4-1 ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYYSTP
280.VK4-1-TSY ESGVPDRFSGSGSGTDFTLTISSLQAEDVAVYYCQQYYSTPFTFGQGTKVEIK

Figure 18



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Figure 19

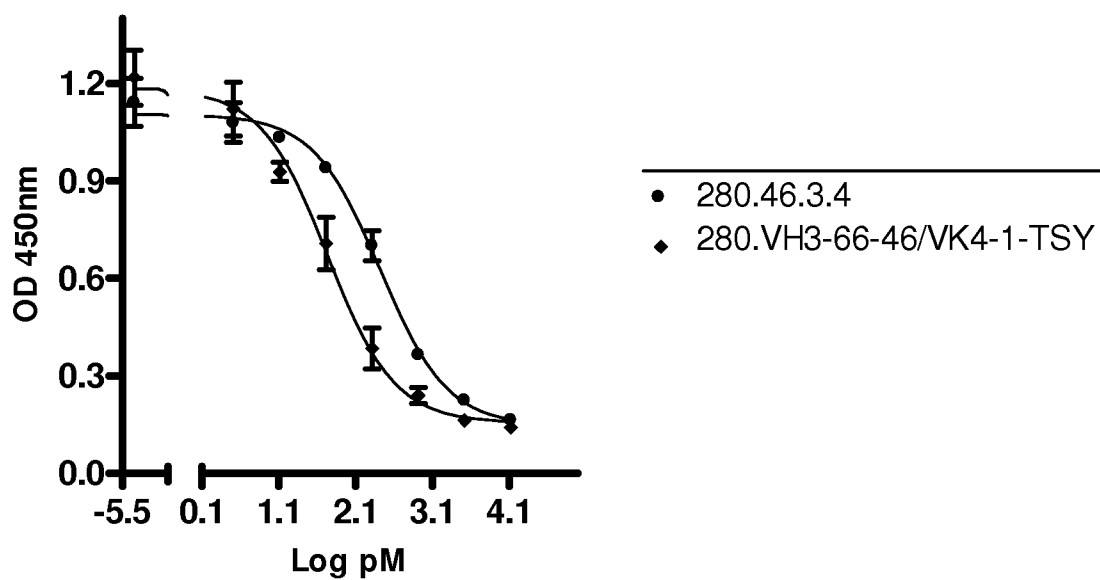
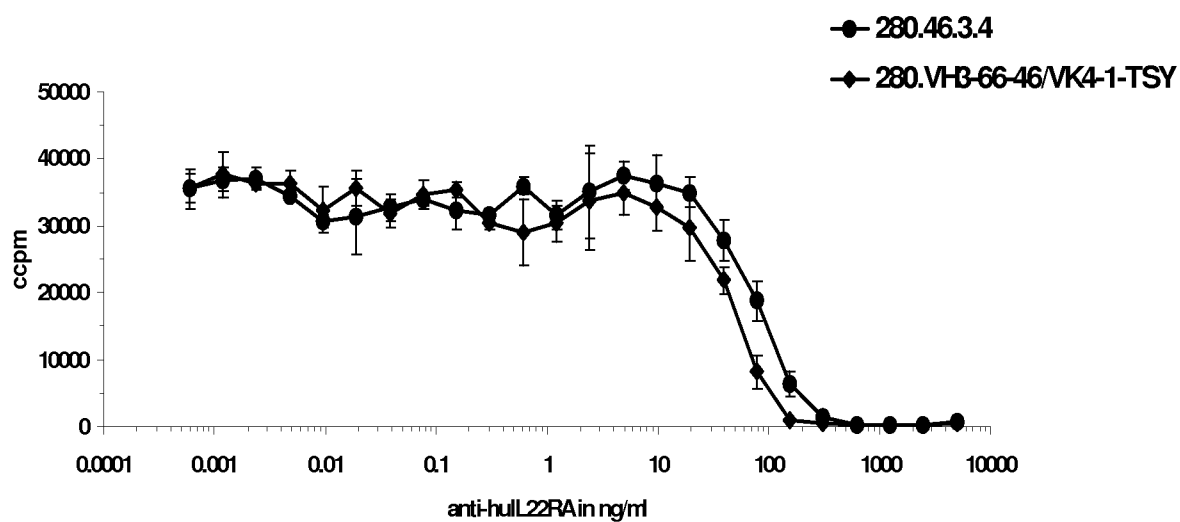


Figure 20



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Figure 21

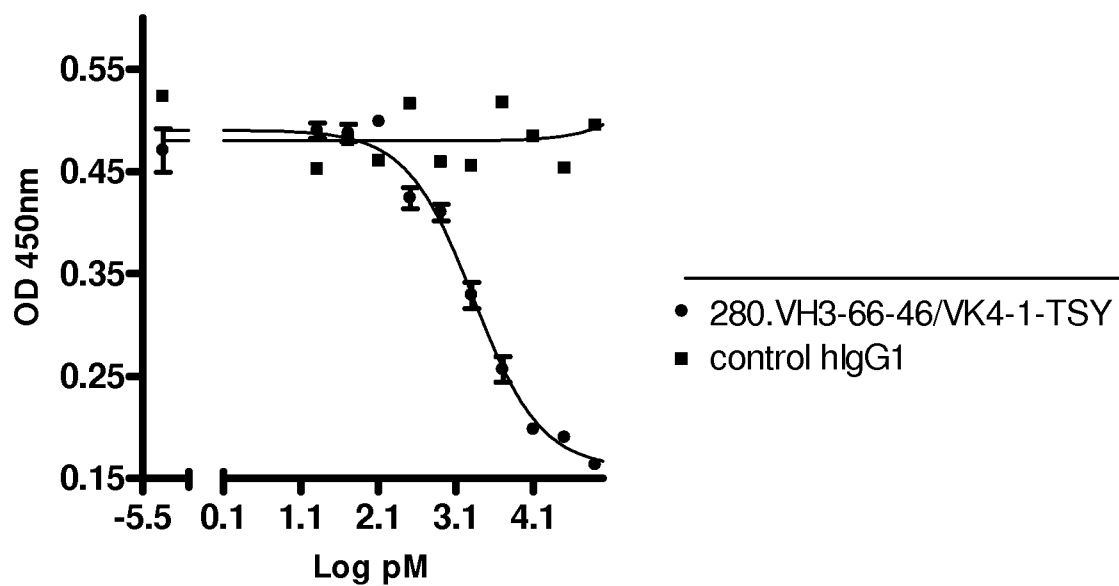


Figure 22

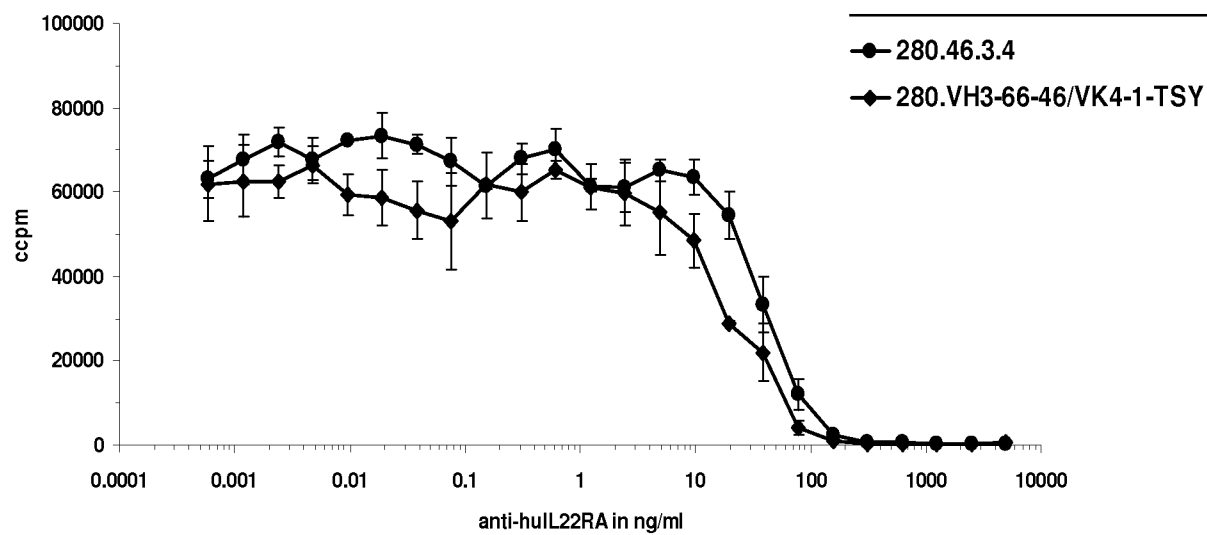


Figure 23

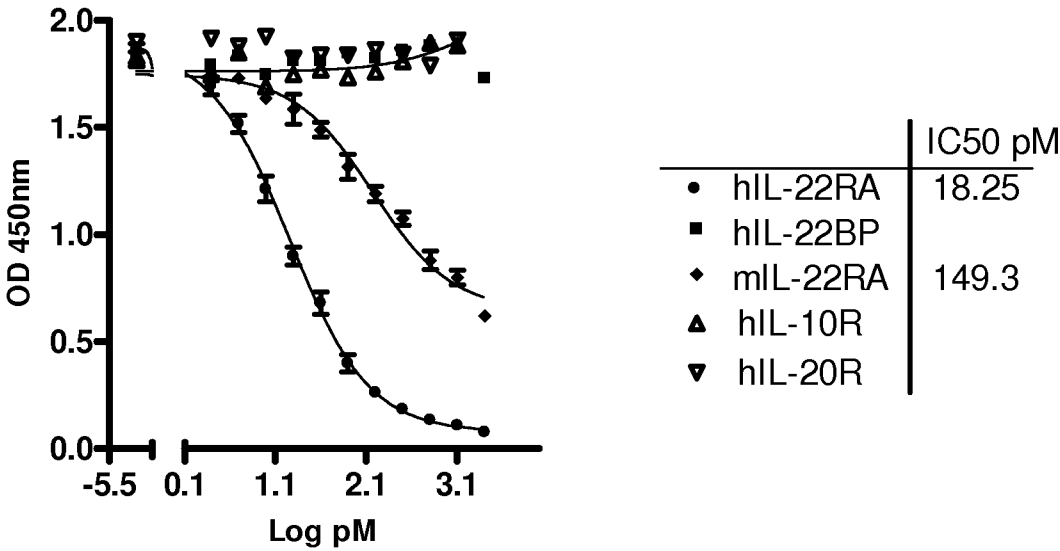
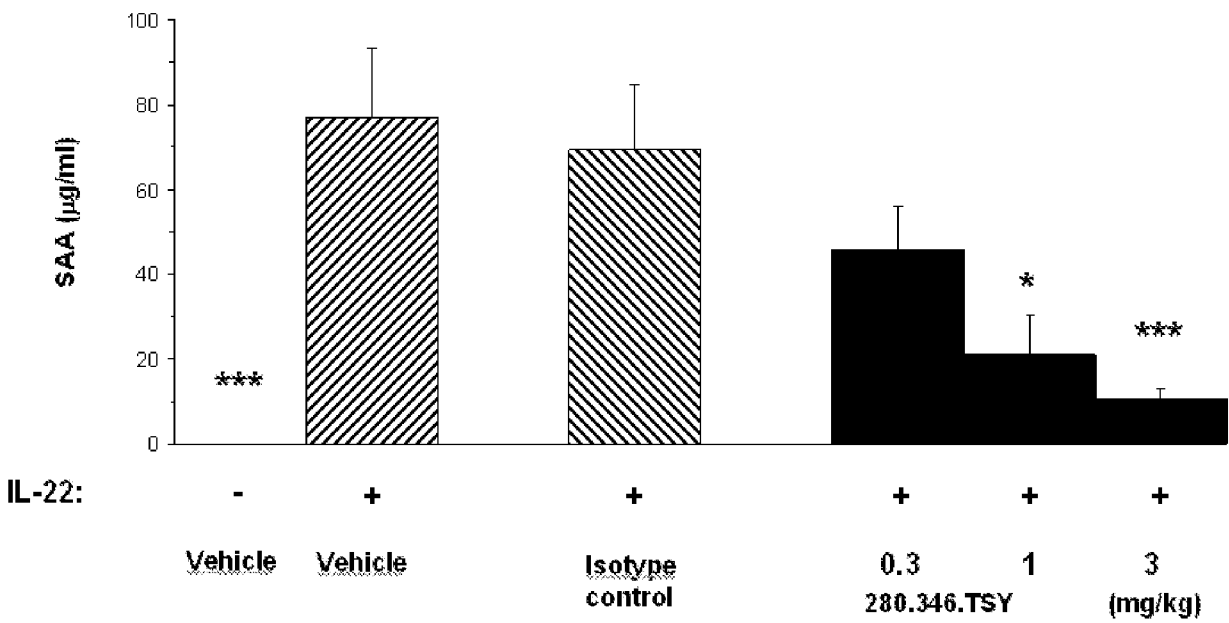


Figure 24



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Figure 25