

GEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLTYIF
SNMDMKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTA
LIFGKGTTLSVSSN (SEQ ID NO.1)

Fig. 1a

ggagaggatgtggagcagagtctttcctgagtgtccgagagggagacagctccgttataaactgcacttacaca
gacagctcctccacactactatactggataagcaagaacctggagcaggtctccagttgctgacgtatatttttca
aatatggacatgaaacaagaccaaagactcactgttctattgaataaaaaggataaacatctgtctctgcgcattgc
agacaccagactggggactcagctatctactctgtgcagaacctaacccagcaggaactgctctgatctttggg
aagggaaccaccttatcagtgagttccaat (SEQ ID NO.2)

Fig. 1b

GEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLTYIF
SNMDMKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTA
LIFGKGTTLSVSSNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSK
DSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTF
FPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLKLVAGFNLLMTLRL
WSS (SEQ ID NO.3)

Fig. 1c

ggagaggatgtggagcagagtcttttctgagtgtccgagagggagacagctccgttataaactgcacttacaca
gacagctcctccacctacttatactggtataagcaagaacctggagcaggtctccagttgctgacgtatatttttca
aatatggacatgaaacaagaccaaagactcactgttctattgaataaaaaggataaacatctgtctctgcgcattgc
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tcctgtgatgtcaagctggctcgagaaaagctttgaaacagatacgaacctaactttcaaaacctgtcagtattgg
gttccgaatcctcctcctgaaagtggccgggtttaatctgctcatgacgtgcggctgtgggtccagc (SEQ ID
NO.4)

Fig. 1d

MKTFAGFSFLFLWLQLDCMSRGEDVEQSLFLSVREGDSSVINCTYTDSSS
TYLYWYKQEPGAGLQLLTYIFSNMDMKQDQRLTVLLNKKDKHLSLRIA
DTQTGDSAIYFCAEPNQAGTALIFGKGTTLSVSSNIQNPDPVYQLRDSK
SSDKSVCLFTDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAW
SNKSDFACANAFNNSIIPEDTFFPSPSSCDVKLVEKSFETDTNLFQNLS
VIGFRILLKLVAGFNLLMTLRLWSS (SEQ ID NO.22)

Fig. 1e

atgaagacatttgctggattttcgttcctgttttgtggctgcagctggactgtatgagtagaggagaggatgtggag
cagagtcttttctgagtgtccgagaggagacagctccgttataaactgcacttacacagacagctcctccacct
acttatactggtataagcaagaacctggagcaggtctccagttgctgacgtatatttttcaaatatggacatgaaac
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ggactcagctatctacttctgtgcagaacctaccaggcaggaactgctctgatctttgggaagggaaccacctta
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gtctgcctattcaccgattttgattctcaaacaaatgtgtcacaaagtaaggattctgatgtgtatatcacagacaaaa
ctgtgctagacatgaggtctatggacttcaagagcaacagtgtgtggcctggagcaacaaatctgactttgcatg
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ctggctgagaaaaagctttgaaacagatacgaacctaaactttcaaaacctgtcagtgattgggtccgaatcctcct
cctgaaagtggccgggttaatctgctcatgacgctgcggctgtgtgtccagc

(SEQ ID NO.23)

Fig. 1f

NAGVTQTPKFRVLKTGQSM TLLCAQDMNHEMYWYRQDPGMGLRLIH
YSVGEGTTAKGEVPDGYNVSRLLKKQNFLGLESAAPSQTSVYFCASSSLE
DPYEQYFGPGTRLTVT (SEQ ID NO.5)

Fig. 2a

aatgctggtgtcactcagaccccaaaattccgggtcctgaagacaggacagagcatgacactgctgtgtgccca
ggatatgaacctgaatacatgtactggtatcgacaagaccaggcatggggctgaggctgattcattactcagtt
ggtgagggtacaactgccaaaggagaggtccctgatggctacaatgtctccagattaaaaaacagaatttctg
ctgggggttgagtcggctgctccctcccaaacatctgtgtacttctgtgccagcagttccctggaggaccctacg
agcagtacttcgggcccgggcaccaggctcacggtcaca (SEQ ID NO.6)

Fig. 2b

NAGVTQTPKFRVLKTGQSM TLLCAQDMNHEYMYWYRQDPGMGLRLIH
YSVGEGTTAKGEVPDGYNVSR LKKQNFLLGLESAAPSQTSVYFCASSSL
EDPYEQYFGPGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLA
TGFYPDHVELSWWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRV
SATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRAD
CGFTSESYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDSRG
(SEQ ID NO.7)

Fig. 2c

aatgctggtgtcactcagaccccaaaattccgggtcctgaagacaggacagagcatgacactgctgtgtgccca
ggatatgaaccatgaatacatgtactggtatcgacaagaccaggcatggggctgaggctgattcattactcagtt
ggtgagggtacaactgccaaaggagaggtccctgatggctacaatgtctccagattaaaaaacagaatttcctg
ctgggggttgagtcggctgctccctcccaaacatctgtgtacttctgtgccagcagttccctggaggaccctacg
agcagtacttcggggccgggcaccagggtcacggtcacaGaggacctgaaaaacgtgttcccaccgaggctcg
ctgtgtttgagccatcagaagcagagatctccacaccccaaaaggccacactggtgtgcctggccacaggcttct
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tccgagtcttaccagcaaggggtcctgtctgccaccatcctctatgagatcttgctaggggaaggccaccttgatgc
cgtgctggtcagtgccctcgtgctgatggccatggtcaagagaaaggattccagaggc
(SEQ ID NO.8)

Fig. 2d

MSLGLGCCGAFSLLWAGPVNAGVTQTPKFRVLKTGQSMTLLCAQDMNH
EYMYWYRQDPGMGLRLIHYSVGEGTTAKGEVPDGYNVSRLLKKQNFL
GLESAAPSQTSVYFCASSSLEDPYEQYFGPGTRLTVTEDLKNVFPPEVAV
FEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVSTDPQP
LKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQ
DRAKPVTQIVSAEAWGRADCGFTSESYQQGVLSATILYEILLGKATLYA
VLVSALVLMAMVKKDSRG

(SEQ ID NO.24)

Fig. 2e

atgagcctcgggctcctgtgctgtggggcctttctctcctgtgggcaggtccagtgaatgctgggtgctactcagac
cccaaaattccgggtcctgaagacaggacagagcatgacactgctgtgtgccaggatatgaacctgaatacat
gtactgggtatcgacaagaccaggtcatggggctgaggctgattcattactcagttgggtgaggggtacaactgccaa
aggagaggtccctgatgggtacaatgtctccagattaaaaaacagaatttctgctgggggttgagtcgggtgct
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agagatctcccacacccaaaaggccacactgggtgtgcctggccacaggcttctaccccgaccacgtggagctga
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gccctcaatgactccagatactgcctgagcagccgcctgaggggtctcgccaccttctggcagaacccccgcaa
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caccagatcgtcagegccgaggcctggggtagagcagactgtggcttcacctccagcttaccagaagggt
gtcctgtctgccaccatcctctatgagatcttctaggaaggccacctgtatgccgtgctgggtcagtgccctcgt
gctgatggccatgggtcaagagaaaggattccagaggc (SEQ ID NO.25)

Fig. 2f

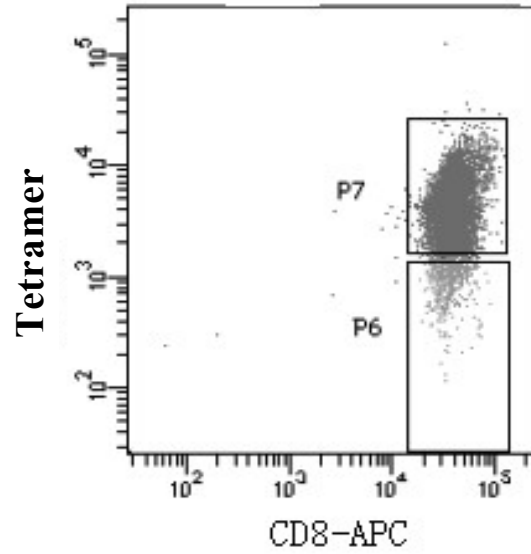


Fig. 3

GEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLYIF
 SNMDMKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAEPNQAGTA
 LIFGKGTTLSVSSNIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSK
 DSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTF
 FPSPESS (SEQ ID NO.26)

Fig. 4a

GGTGAAGATGTTGAACAGAGTCTTTTCCTGAGTGTCCGAGAGGGAGA
CAGCTCCGTTATAAACTGCACTTACACAGACAGCTCCTCCACCTACTT
ATACTGGTATAAGCAAGAACCTGGAGCAGGTCTCCAGTTGCTGACGT
ATATTTTTTTCAAATATGGACATGAAACAAGACCAAAGACTCACTGTTC
TATTGAATAAAAAGGATAAACATCTGTCTCTGCGCATTGCAGACACC
CAGACTGGGGACTCAGCTATCTACTTCTGTGCAGAACCTAACCAGGC
AGGAACTGCTCTGATCTTTGGGAAGGGAACCACTTATCAGTGAGTTC
CAATATCCAGAACCCTGACCCTGCCGTGTACCAGCTGAGAGACTCTA
AGTCGAGTGACAAGTCTGTCTGCCTATTCACCGATTTTGATTCTCAAA
CAAATGTGTACAAAGTAAGGATTCTGATGTGTATATCACAGACAAA
TGTGTGCTAGACATGAGGTCTATGGACTTCAAGAGCAACAGTGCTGT
GGCCTGGAGCAACAAATCTGACTTTGCATGTGCAAACGCCTTCAACA
ACAGCATTATTCCAGAAGACACCTTCTTCCCCAGCCCAGAAAGTTCC

(SEQ ID NO.27)

Fig. 4b

NAGVTQTPKFRVLKTGQSMTELLCAQDMNHEYMYWYRQDPGMGLRLIH
YSVGEGTTAKGEVPDGYNVSRLLKKNFLLGLESAAPSQTSVYFCASSSL
EDPYEQYFGPGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQKATLVCLA
TGFYPDHVELSWVNGKEVHSGVCTDPQPLKEQPALNDSRYALSSRLR
VSATFWQDPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRA
D (SEQ ID NO.28)

Fig. 5a

AACGCGGGCGTGACCCAGACCCCAAAATTCCGGGGTCCTGAAGACAGG
ACAGAGCATGACACTGCTGTGTGCCCAGGATATGAACCATGAATACA
TGTACTGGTATCGACAAGACCCAGGCATGGGGCTGAGGCTGATTCAT
TACTCAGTTGGTGAGGGTACAACCTGCCAAAGGAGAGGTCCCTGATGG
CTACAATGTCTCCAGATTAAAAAAACAGAATTTTCCTGCTGGGGTTGG
AGTCGGCTGCTCCCTCCCAAACATCTGTGTACTTCTGTGCCAGCAGTT
CCCTGGAGGACCCCTACGAGCAGTACTTCGGGGCCGGGCACCAGGCTC
ACGGTCACAGAGGACCTGAAAAACGTGTTCCCACCCGAGGTGCTGT
GTTTGAGCCATCAGAAGCAGAGATCTCCCACACCCAAAAGGCCACAC
TGGTGTGCCTGGCCACCGGTTTCTACCCCGACCACGTGGAGCTGAGCT
GGTGGGTGAATGGGAAGGAGGTGCACAGTGGGGTCTGCACAGACCC
GCAGCCCCTCAAGGAGCAGCCCGCCCTCAATGACTCCAGATACGCTC
TGAGCAGCCGCCTGAGGGTCTCGGCCACCTTCTGGCAGGACCCCCGC
AACCCTTCCGCTGTCAAGTCCAGTTCTACGGGGCTCTCGGAGAATGAC
GAGTGGACCCAGGATAGGGCCAAACCCGTCACCCAGATCGTCAGCGC
CGAGGCCTGGGGTAGAGCAGAC (SEQ ID NO.29)

Fig. 5b

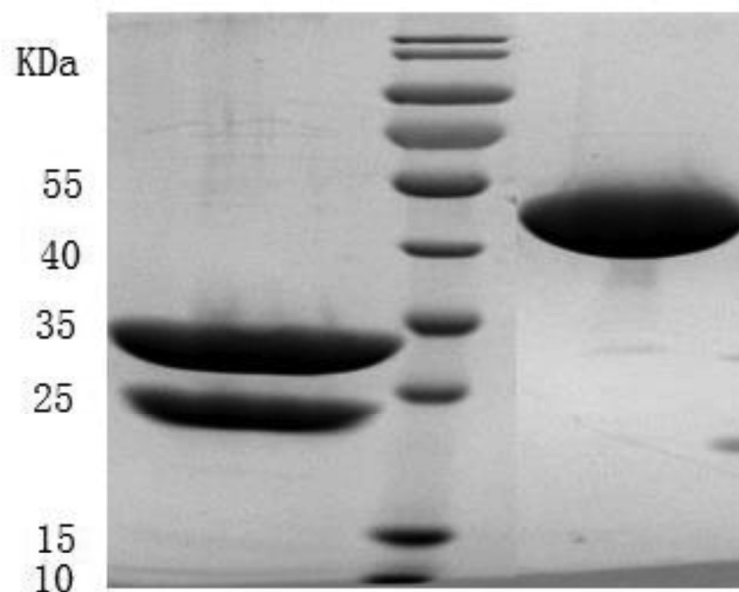


Fig. 6

MGEDVEQSLSLSVREGDSVSINCTYTDSSSTYLYWYKQEPGAGLQLLTYI
FSNMDMKQDQRLTVSLNKKDKHLSLRIEDVQPGDSAIYFCAEPNQAGTA
LIFGKGTTLSVSSGGGSEGGGSEGGGSEGGGSEGGTGNAGVTQTPKYLS
VKTGQSVTLQCAQDMNHEYMYWYRQDPGQGLRLIHYSVGEGTTAKGE
VPDRYNVSRLLKKQNFLLGIESVTPSDTSVYFCASSLEDPYEQYFGPGTR
LTVT (SEQ ID NO.30)

Fig. 7a

ATGGGTGAGGACGTGGAACAGAGCCTGAGCCTGAGCGTGCGTGAGG
GCGACAGCGTTAGCATCAACTGCACCTACACCGATAGCAGCAGCACC
TACCTGTATTGGTACAAGCAGGAACCGGGTGCGGGCCTGCAACTGCT
GACCTATATTTTCAGCAACATGGACATGAAGCAGGATCAACGTCTGA
CCGTGAGCCTGAACAAGAAAGATAAACACCTGAGCCTGCGTATCGAG
GACGTTTCAGCCGGGTGATAGCGCGATTTACTTCTGCGCGGAACCGAA
CCAAGCGGGTACCGCGCTGATCTTTGGTAAAGGTACCACCCTGAGCG
TGAGCAGCGGTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCGG
TAGCGAGGGCGGTGGCAGCGAAGGTGGCACCGGTAACGCGGGCGTT
ACCCAGACCCCGAAGTATCTGAGCGTGAAAACCGGTCAAAGCGTTAC
CCTGCAGTGCGCGCAAGACATGAACCACGAGTATATGTACTGGTATC
GTCAGGATCCGGGTCAAGGCCTGCGTCTGATCCACTATAGCGTGGGC
GAGGGTACCACCGCGAAGGGTGAAGTGCCGGACCGTTATAACGTTAG
CCGTCTGAAGAAACAGAACTTTCTGCTGGGTATTGAAAGCGTGACCC
CGAGCGACACCAGCGTTTACTTCTGCGCGAGCAGCAGCCTGGAGGAT
CCGTACGAACAATATTTTGGTCCGGGCACCCGTCTGACCGTTACC
(SEQ ID NO.31)

Fig. 7b

MGEDVEQSLSLSVREGDSVSINCTYTDSSSTYLYWYKQEPGAGLQLLTYI
FSNMDMKQDQRLTVSLNKKDKHLSLRIEDVQPGDSAIYFCAEPNQAGTA
LIFGKGTTLSVSS (SEQ ID NO.32)

Fig. 8a

ATGGGTGAGGACGTGGAACAGAGCCTGAGCCTGAGCGTGCGTGAGG
GCGACAGCGTTAGCATCAACTGCACCTACACCGATAGCAGCAGCACC
TACCTGTATTGGTACAAGCAGGAACCGGGTGCGGGCCTGCAACTGCT
GACCTATATTTTCAGCAACATGGACATGAAGCAGGATCAACGTCTGA
CCGTGAGCCTGAACAAGAAAGATAAACACCTGAGCCTGCGTATCGAG
GACGTTTCAGCCGGGTGATAGCGCGATTTACTTCTGCGCGGAACCGAA
CCAAGCGGGTACCGCGCTGATCTTTGGTAAAGGTACCACCCTGAGCG
TGAGCAGC (SEQ ID NO.33)

Fig. 8b

NAGVTQTPKYLSVKTGQSVTLQCAQDMNHEYMYWYRQDPGQGLRLIH
YSVGEGTTAKGEVPDRYNVSRLKKQNFLLGIESVTPSDTSVYFCASSLE
DPYEQYFGPGTRLTVT (SEQ ID NO.34)

Fig. 9a

AACGCGGGCGTTACCCAGACCCCGAAGTATCTGAGCGTGAAAACCGG
TCAAAGCGTTACCCTGCAGTGCGCGCAAGACATGAACCACGAGTATA
TGTA CTGGTATCGTCAGGATCCGGGTCAAGGCCTGCGTCTGATCCACT
ATAGCGTGGGCGAGGGTACCACCGCGAAGGGTGAAGTGCCGGACCGT
TATAACGTTAGCCGTCTGAAGAAACAGAACTTTCTGCTGGGTATTGAA
AGCGTGACCCCGAGCGACACCAGCGTTTACTTCTGCGCGAGCAGCAG
CCTGGAGGATCCGTACGAACAATATTTTGGTCCGGGCACCCGTCTGAC
CGTTACC (SEQ ID NO.35)

Fig. 9b

GGGSEGGGSEGGGSEGGGSEGGTG (SEQ ID NO.36)

Fig. 10a

GGTGGCGGTAGCGAGGGCGGTGGCAGCGAAGGTGGCGGTAGCGAGG
GCGGTGGCAGCGAAGGTGGCACCGGT (SEQ ID NO.37)

Fig. 10b

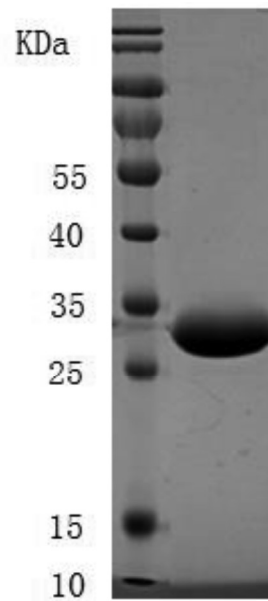


Fig. 11

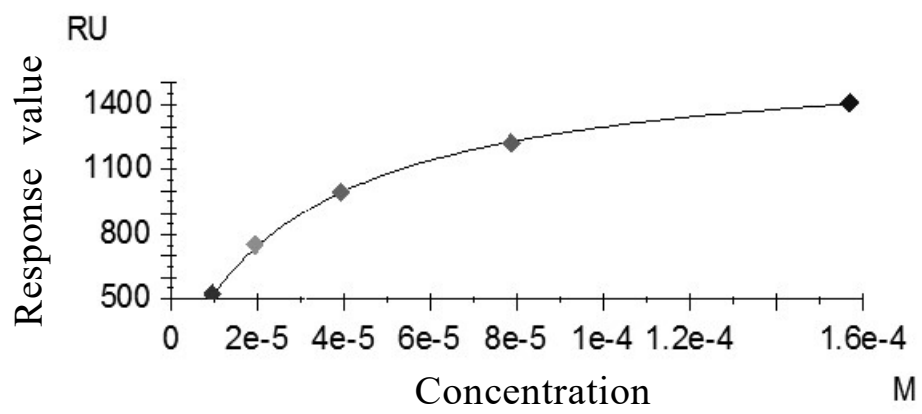


Fig. 12

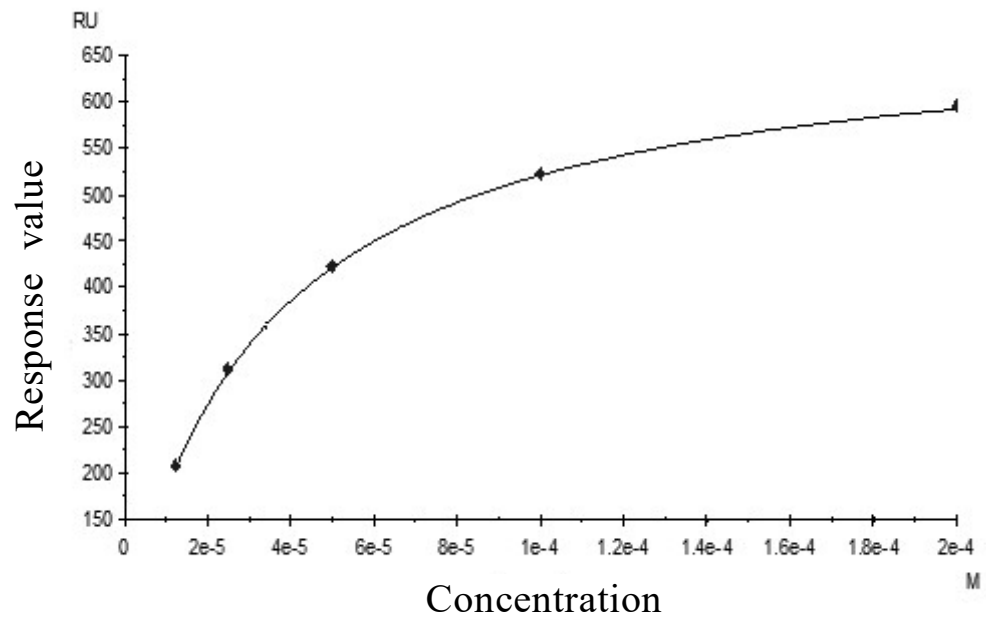


Fig. 13

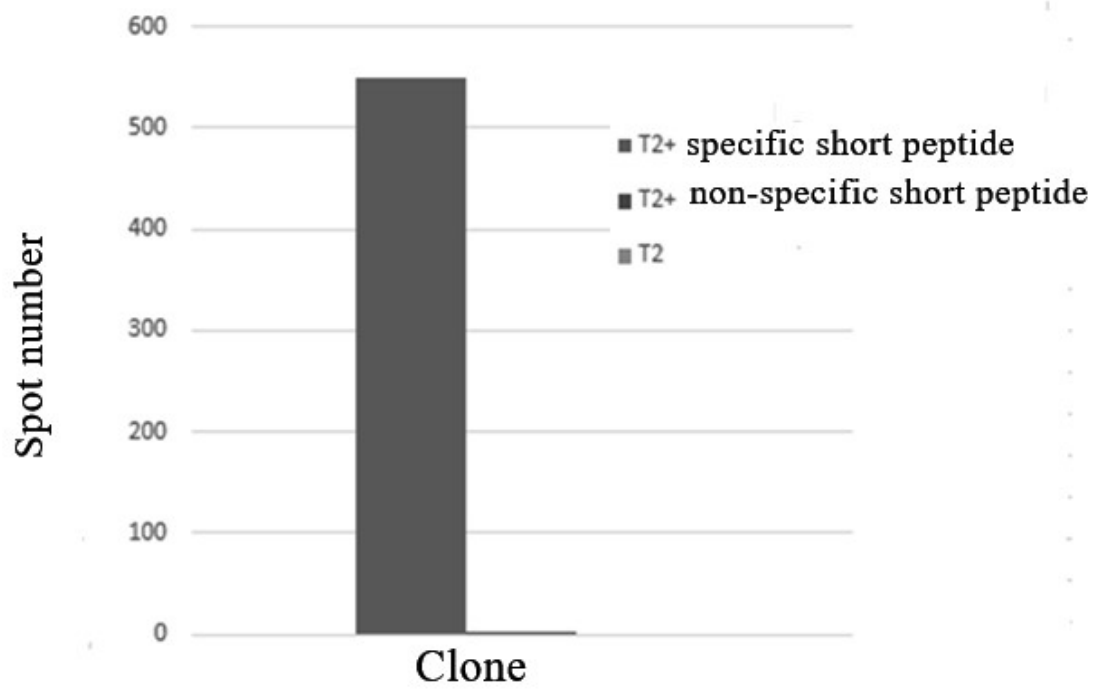


FIG. 14

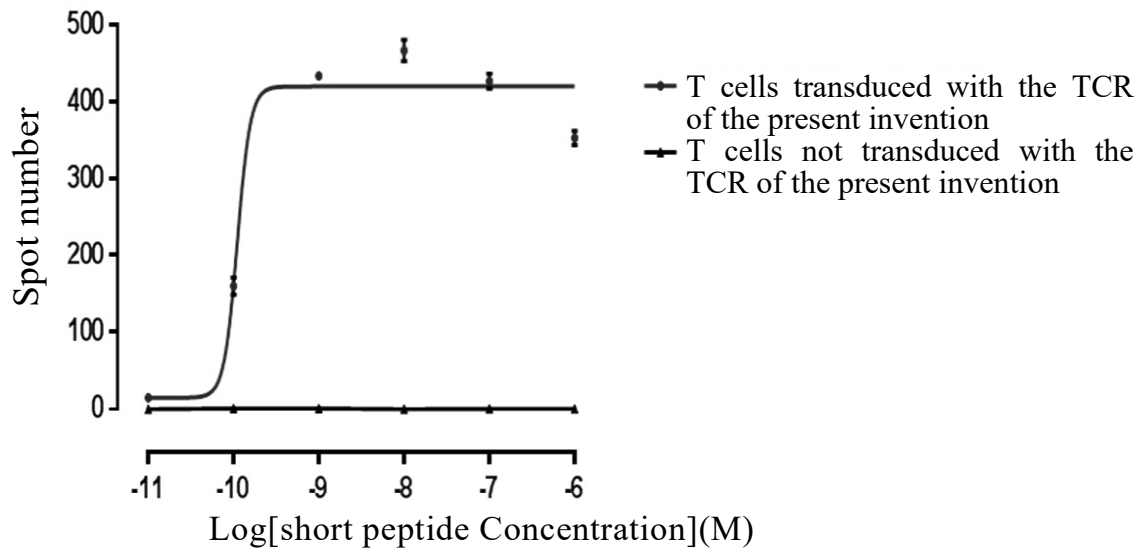


FIG. 15

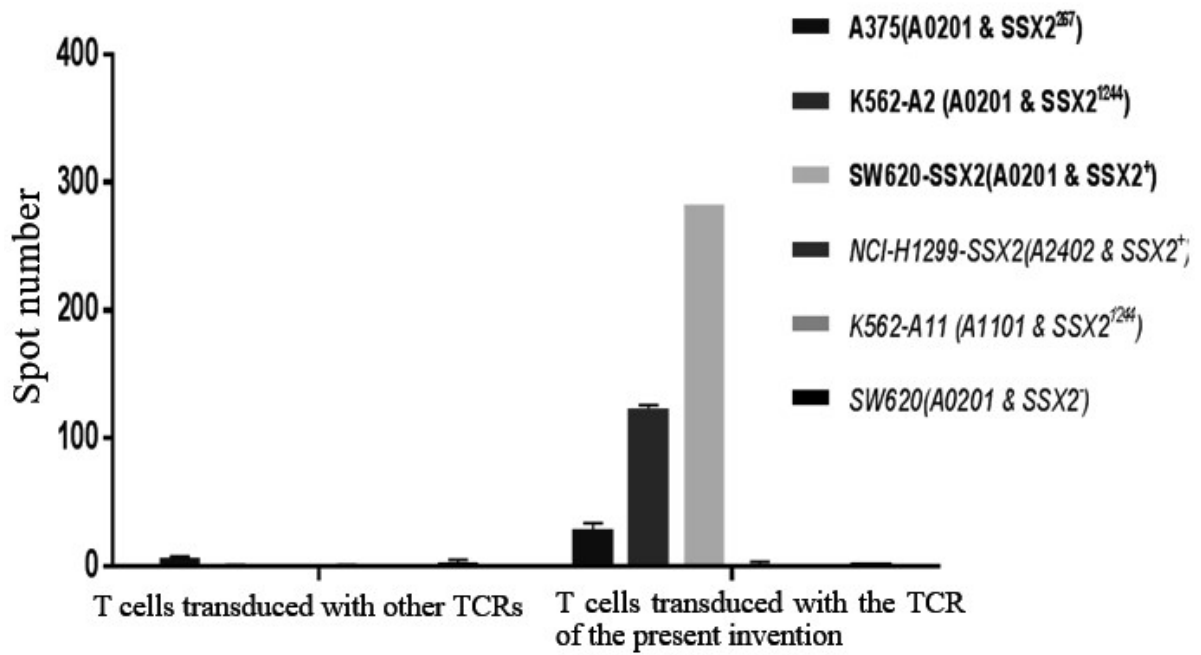


FIG. 16