

FIGURE 1

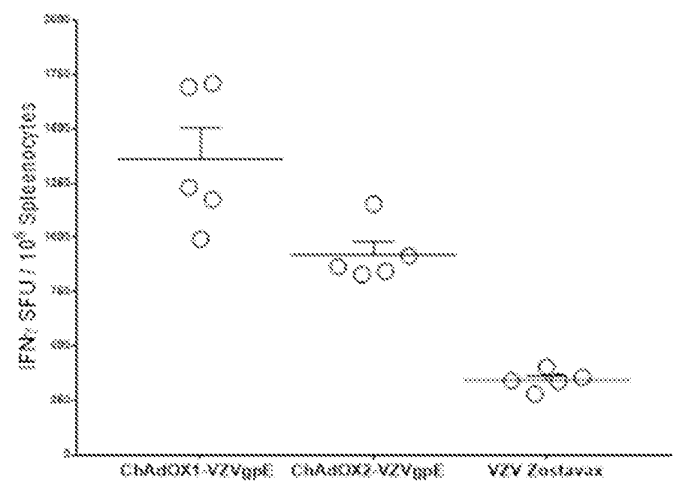


FIGURE 2

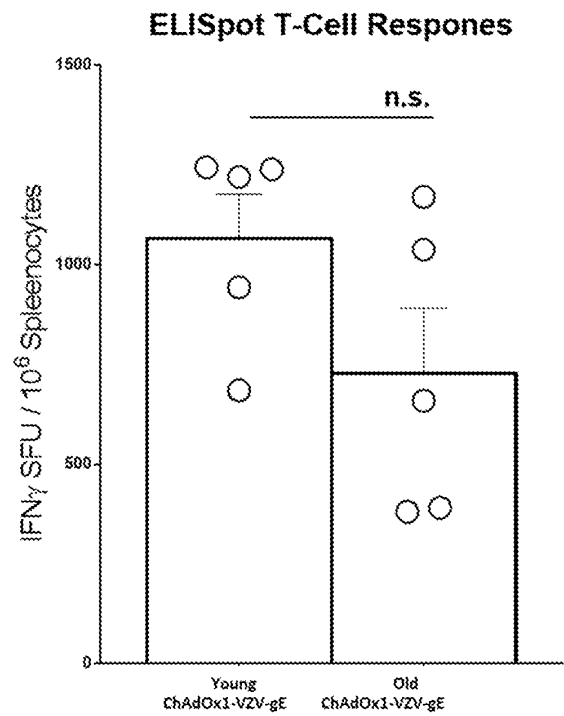


FIGURE 3

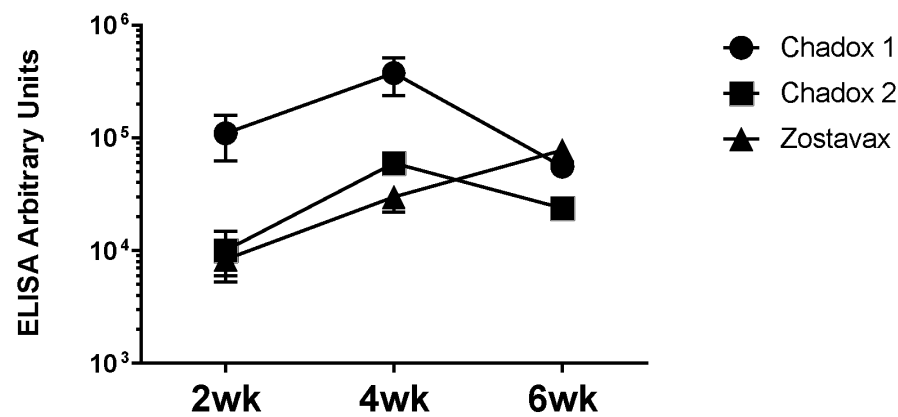


FIGURE 4

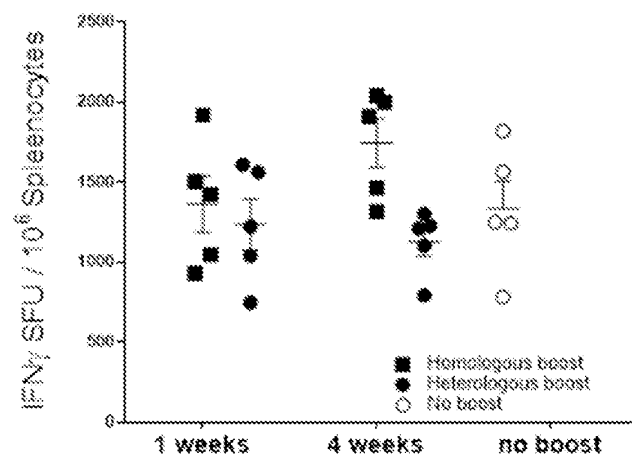


FIGURE 5

Insert
AY253715.1
ATGGGCACCGTGAACAAGCCCGTCGTGGCGGTGCTGATGGGCTTCGGCATCATCACCGGC 60
ATGGGACACAGTTAATAAACCTGTGTGGGGTATTGATGGGGTTCGGAATTATCACGGGA 60
***** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** * * * * *
Insert
AY253715.1
ACCTGCGGATCACCAATCCTGTGCGGGCCAGCGTGCTGAGATACGACGACTTCCACATC 120
ACGTTGCGTATAACGAATCCGGTCAGAGCATCCGCTCTTGGGATACGATGATTTTCACATC 120
** **** ** ** * ** *** ** ***** ** ** *****
Insert
AY253715.1
GACGAGGACAAGCTGGACACCAACAGCGGTACGAGCCCTACTACCACGCGACCCAGCC 180
GATGAAGACAAACTGGATACAAACTCCGTATATGAGCCTTACTACCATTCAGATCATGCG 180
** ** ***** ** *** ** ***** ***** ** ** **
Insert
AY253715.1
GAGAGCAGCTGGGTCAACAGAGGCGAGTCCAGCCGGAAGGCCCTACGACCACACAGCCCC 240
GAGTCTTCATGGGTAAATCGGGGAGAGTCTTCGGGAAAAGCGTACGATCATAACTCACCT 240
*** ***** ** * ** ***** ** ** ** ***** ** **
Insert
AY253715.1
TACATCTGGCCCCCGGAACGACTACGACGGCTTCCTGGAATAATGCCACGAGCACCCAGGC 300
TATATATGGCCACGTAATGATTATGATGGATTTTAGAGAAACGCACACGAACACCATGGG 300
** ** ***** ** ** ** ** ** ** ** ** ** * ** ** ***** ***** **
Insert
AY253715.1
GTGTACAACACGAGGGCAGAGGCATCGACAGCGGGCGAGAGACTGATGCAGCCCCACCCAGATG 360
GTGTATAATCAGGGCCGTGGTATCGATAGCGGGGAACGGTTAATGCAACCCACACAAATG 360
***** ** ***** * ** ***** ***** ** * ***** ***** **
Insert
AY253715.1
AGCGCCAGGAAGATCTGGGCGACGACACCGGCATCCACGTGATCCCTACCCCTGAACGGC 420
TCTGCACAGGAGGATCTTGGGGACGATACGGGCATCCACGTTATCCCTACGTTAAACGGC 420
** ***** ***** ** ***** ** ***** ***** * *****

FIGURE 5 CONTINUED

Insert
AY253715.1
GACACCGGCACAAGATCGTGAACGTGGACCAGCGCAGTACGGCGACGTGTTCAAGGGC 480
GATGACAGACATAAAATTGTAAATGTGGACCACTCAATACGGTGACGTGTTTAAAGGA 480
** *** * **
GACCTGAACCCCAAGCCCCAGGGACAGCGGCTGATTGAGGTGCCGTGAAGAAGAACAC 540
GATCTTAATCCAACCAACCCCAAGGCCAAGACTCATTTGAGGTGTGAGTGAAGAAAATCAC 540
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ***** ** ***** ** *****
CCCTTCACCCCTGAGAGCCCCCATCCAGAGAAATCTACGGCGTGGCTATACCGAGACTTGG 600
CCGTTTACTTTACGGCACCCGATTACAGCGGATTTATGGAGTCCGGTACACCGAGACTTGG 600
** ** ** * ** ** ** ** ** ** ** ** ** *****
AGCTTCCTGCCCAGCCTGACCTGTACTGGCGACGCCGCTCCTGCCATCCAGCACATCTGC 660
AGCTTTTTGCCGTCATTAAACCTGTACGGGAGACGCAGCGCCCCGCCATCCAGCATATATGT 660
***** **** * ***** ** ***** ** *****
CTGAAGCACACCACTGTTTCCAGGACGTGGTGGTGGACGTGGACTGCGCCGAGAACACC 720
TTAAAAACATAACAATGCTTTCAAGACGTGGTGGTGGATGTGGATTGCGCGGAAAATACT 720
* ** ** ** ** ** ** ** *****
AAAGAGGACCACTGGCCGAGATCAGTACCGTTCCAGGGCAAGAAAGAGCGCACCAG 780
AAAGAGGATCAGTTGCCCGAAATCAGTTACCGTTTCAAGGTAAGAAGGACGGACCAA 780
***** ** *****
CCCTGGATCGTGTGAACACCAGCACCCCTGTTCCAGCAGCTGGAACCTGGACCCCGGAG 840
CCGTGGATTGTTGTAACACAGGACACACTGTTTATGAACCTCGAATTAGACCCCCCGGAG 840
** ***** ** *****

FIGURE 5 CONTINUED

Insert	ATTGAACCCCGGGTGCTGAAGTGCTGCGGACCGAGAAGCAGTACCTGGGAGTGTACATC 900
AY253715.1	ATTGAACCCCGGGTGCTTTGAAAAGTACTTCGGACAGAAAAACAATACTTGGGTGTGTACATT 900 ***** ** ** **** ** ** **** ** ** **** ** **** *****
Insert	TGGAACATGCGGGGCAGCGACGGCACCTCTACCTACGCCACCTTCCTCGTGACCTGGAAG 960
AY253715.1	TGGAACATGCGGGGCTCCGATGGTACGTCTACCTACGCCACGTTTTTGGTCACCTGGAAA 960 ***** ** ** **** ** ** **** ***** ** * ** *****
Insert	GGCGACGAGAAAAACCCGGAACCCCTACCCCTGCCGTGACCCCTCAGCCTAGAGGGCCGAG 1020
AY253715.1	GGGATGAAAAAACAAGAAACCCCTACGCCCGCAGTAACTCCTCAACCAAGAGGGGCTGAG 1020 ** ** ** **** * **** ** ** ** ** ** ** **** ** **** ** **** ** ****
Insert	TTTCACATGTGGAATTACCACAGCCACGTGTTACGGTGGGCGACACCTTCTCCCTGGCC 1080
AY253715.1	TTTCATATGTGGAATTACCACCTCGCATGTATTTTCAGTTGGTGATACGTTTAGCTTGGCA 1080 ***** ***** ** ** ** ** ** **** ** ** ** * ****
Insert	ATGCATCTGCAGTACAAGATCCACGAGGCCCTTCGACCTGCTGCTGGAATGGCTGTAC 1140
AY253715.1	ATGCATCTTCAGTATAAGATACATGAAGCGCCATTGATTGCTGTTAGAGTGGTTGTAT 1140 ***** ***** ** ** ** ** **** ** **** * ** ****
Insert	GTGCCCATCGACCCCTACCTGCCAGCCCATGGGGTGCTACTCCACCTGTCTGTACCACCCC 1200
AY253715.1	GTCCCCATCGATCCTACATGTCAACCAATGCGGTTATATTCTACGTGTTTGTATCATCCC 1200 ** ***** ***** ** ** **** * ** ** **** ***** ** ****
Insert	AACGCCCCCAGTGCCTGAGCCACATGAATAGGGGTGCACCTTCACCAGCCCCACCTG 1260
AY253715.1	AACGCACCCCAATGCCTCTCTCATATGAATTCGGTTGTACATTTACCTCGCCACATTTA 1260 ***** ***** ** ***** **** ** ** **** ** **** ** *

FIGURE 5 CONTINUED

Insert	GCTCAGAGGGTGGCCAGCACCGTGTACAGAAATTGGAGACGCGGACAACTACACCGCC	1320
AY253715.1	GCCCAGCGTGTGCAAGCACAGTGTATCAAAATTGTGAACATGCAGATAACTACACCGCA	1320
	** *** * ** ** ***** ** ***** ** ** ** *****	
Insert	TACTGCCTGGGCATCAGCCACATGGAACCTAGCTTCGGCCTGATCCTGCACGACGGCGGC	1380
AY253715.1	TATTGTCTGGGAATATCTCATATGGAGCCTAGCTTTGGTCTAATCTTACACGACGGGGGC	1380
	** ** ***** ** ** ***** ***** ** ** *** * *****	
Insert	ACCACCCCTGAAGTTCGTGGATACCCAGAGAGCCTGAGCGGCCCTGTACGTGTTCGTGGTG	1440
AY253715.1	ACCACGTTAAAGTTTGTAGATACACCCGAGAGTTTGTCTGGGATTATACGTTTTTGTGGTG	1440
	***** * ***** ** ***** ** ***** ** * *****	
Insert	TACTTCAACGGCCACGTGGAAGCCGTGGCCTACACCGTGGTGTCCACCGTGGACCACTTC	1500
AY253715.1	TATTTTAAACGGGCATGTTGAAGCCGTAGCATACACTGTTGTATCCACAGTAGATCATT	1500
	** ** ***** ** ** ***** ** ***** ** ** *****	
Insert	GTGAACGCCATCGAGGAACGGGGCTTCCCTCCAACCTGCTGGACAGCCTCCTGCCACCA	1560
AY253715.1	GTAAACGCAATTGAAGAGCGTGGATTTCGGCCAAACGGCCGGTCAGCCACCGCGGACTACT	1560
	** ***** ** ** ** ** ** ** ** ** ** ** ** ** ***** ** ** *****	
Insert	AAGCCCAAAGAAATCACCCCCCGTGAACCCCGGCACCAAGCCCTCTGCTGCGCTATGCTGCT	1620
AY253715.1	AAACCCAGGAAATTACCCCCCGTAAACCCCGGAACGTCACCACTTCTACGATATGCCGCA	1620
	** ***** ***** ***** ** ** ** ** ** *****	
Insert	TGGACAGGCGGACTGGCTGCTGTGGTGTGCTGTGCTGCCTCGTGATTTTCTGATCTGCACC	1680
AY253715.1	TGGACCGGAGGGCTTGCAGCAGTAGTACTTTTATGTCTCGTAATAATTTTAAATCTGTACG	1680
	***** ** ** ** ** ** ** ** ** ** ** ***** ** ** *****	

FIGURE 5 CONTINUED

Insert GCGAAGCGGATGAGAGTGAAGGCCTATCGGGTGGACAAGTCCCCCTACAACCAGAGCATG 1740
AY253715.1 GCTAAACGAATGAGGGTTAAAGCCTATAGGGTAGACAAGTCCCCGTATAAACCAGCATG 1740
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
Insert TACTACCGCGGCCTGCCCGTGGACGATTTTCGAGGATAGCGAGAGCACCGACACCGAGGAA 1800
AY253715.1 TATTACGCTGGCCTTCCAGTGGACGATTTTCGAGGACTCGGAATCTACGGATACGGAAGAA 1800
** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
Insert GAGTTCGGCAACGCCATTGGCGGCTCTACGGCGGACAGACTATACCGTGTACATCGAC 1860
AY253715.1 GAGTTTGGTAACGCGATTGGAGGGAGTCACGGGGGTTTCGAGTTACACGGTGTATATAGAT 1860
**** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
Insert AAGACCCGCTGA 1872
AY253715.1 AAGACCCGCTGA 1872
***** **

FIGURE 6

vaccine MGTVNKPVVGVLMGFGIITGTLRITNPVRASVLRYYDDFHIDEDKLDTNSVYEPYHSDHA 60
AY253715.1 MGTVNKPVVGVLMGFGIITGTLRITNPVRASVLRYYDDFHIDEDKLDTNSVYEPYHSDHA 60

vaccine ESSWVNRGESSRKAYDHNSPYIWPRNDYDGFLENAHEHHGVYNQGRGIDSGERLMQPTQM 120
AY253715.1 ESSWVNRGESSRKAYDHNSPYIWPRNDYDGFLENAHEHHGVYNQGRGIDSGERLMQPTQM 120

FIGURE 6 CONTINUED

vaccine	SAQEDLGDDTGIHV	180
AY253715.1	SAQEDLGDDTGIHV	180

vaccine	PFTLRAPIQRIYGVRYTETWSFLPSLTCTGDAAPAIQHICLKHTTCFQDQDVVVDVDC	240
AY253715.1	PFTLRAPIQRIYGVRYTETWSFLPSLTCTGDAAPAIQHICLKHTTCFQDQDVVVDVDC	240

vaccine	KEDQLAEISYRFQGGKEADQPWIVVNTSTLFDELELDPPPEIEPGVLKVLRT	300
AY253715.1	KEDQLAEISYRFQGGKEADQPWIVVNTSTLFDELELDPPPEIEPGVLKVLRT	300

vaccine	WNMRGSDGTSTYATFLVTWKGDEKTRNPTPAVTPQPRGAEFHMWNYHSHVFSV	360
AY253715.1	WNMRGSDGTSTYATFLVTWKGDEKTRNPTPAVTPQPRGAEFHMWNYHSHVFSV	360

vaccine	MHLQYKIHEAPFDLLEWLYVPIDPTCQPMRLYSTCLYHPNAPQCLSHMNSGCTFT	420
AY253715.1	MHLQYKIHEAPFDLLEWLYVPIDPTCQPMRLYSTCLYHPNAPQCLSHMNSGCTFT	420

vaccine	AQRVASTVYQNC	480
AY253715.1	AQRVASTVYQNC	480

vaccine	YFNGHVEAVAYTVVSTVDHFVNAIEERGFPPTAGPPATTKPKEITPVNPGTSP	540
AY253715.1	YFNGHVEAVAYTVVSTVDHFVNAIEERGFPPTAGPPATTKPKEITPVNPGTSP	540

FIGURE 6 CONTINUED

vaccine	WTGGLAAVVLICLVIFLICAKMRVKAYRVDKSPYNQSMYYAGLPVDDFEDSESTDTEE	600
AY253715.1	WTGGLAAVVLICLVIFLICAKMRVKAYRVDKSPYNQSMYYAGLPVDDFEDSESTDTEE	600

vaccine	EFGNAIGGSHGGSSYTVYIDKTR	623
AY253715.1	EFGNAIGGSHGGSSYTVYIDKTR	623

FIGURE 7

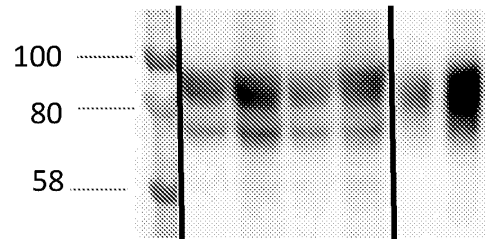


FIGURE 8

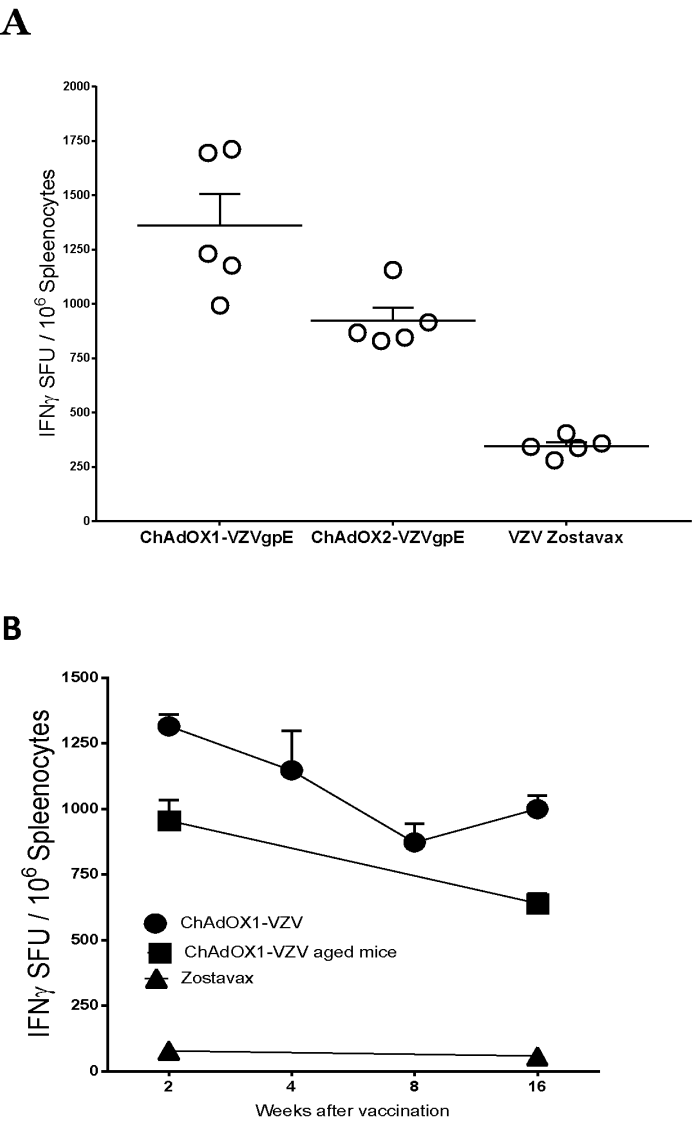


FIGURE 9

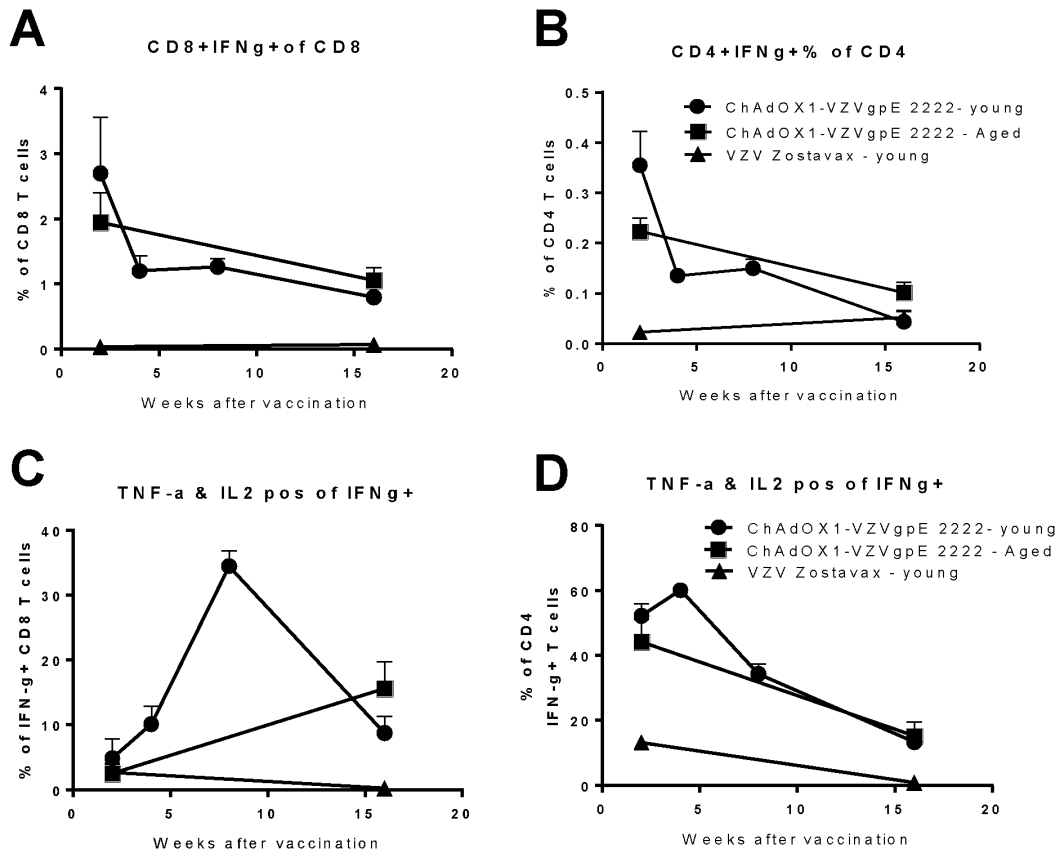


FIGURE 10

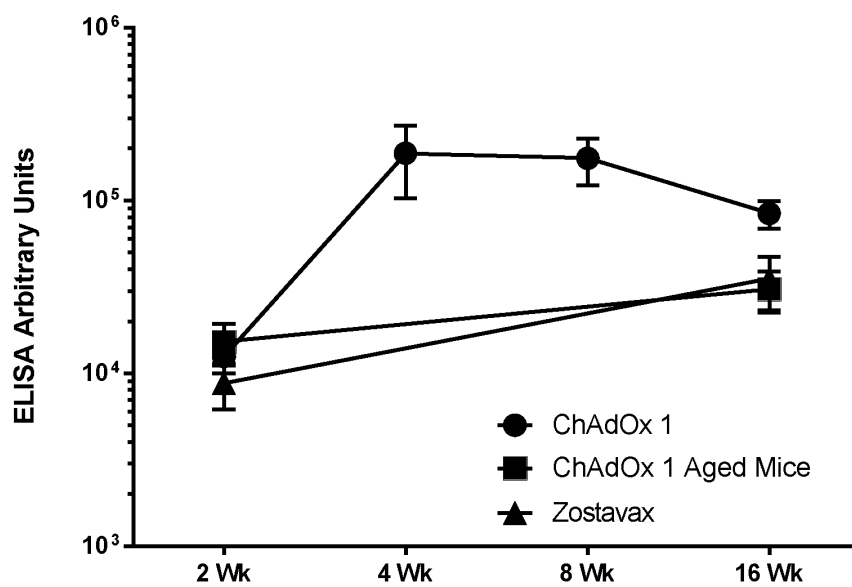
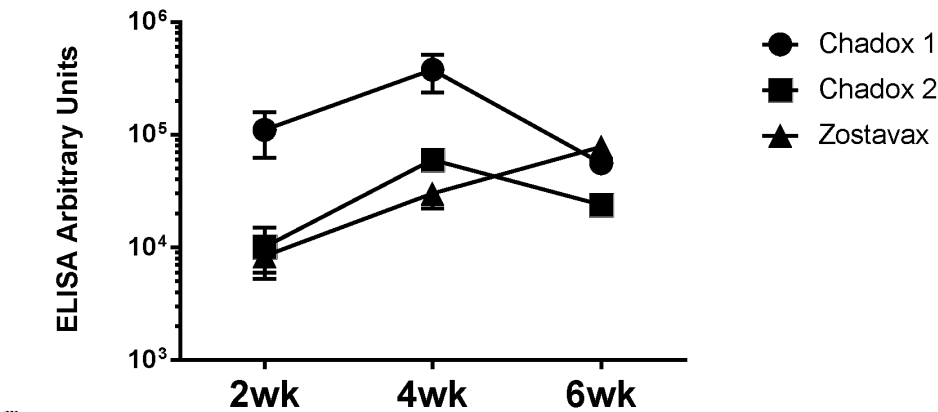
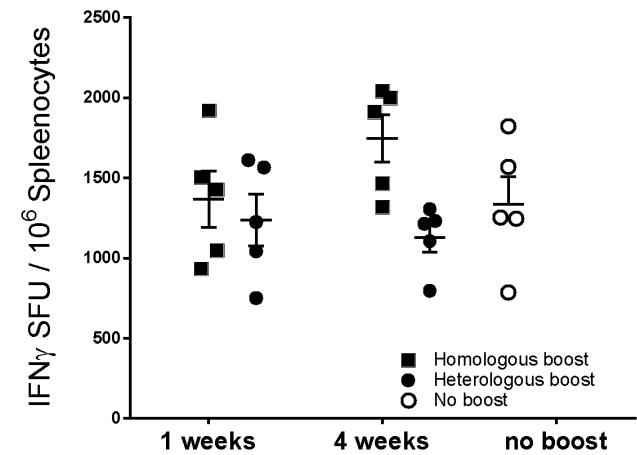


FIGURE 11

A



B



C

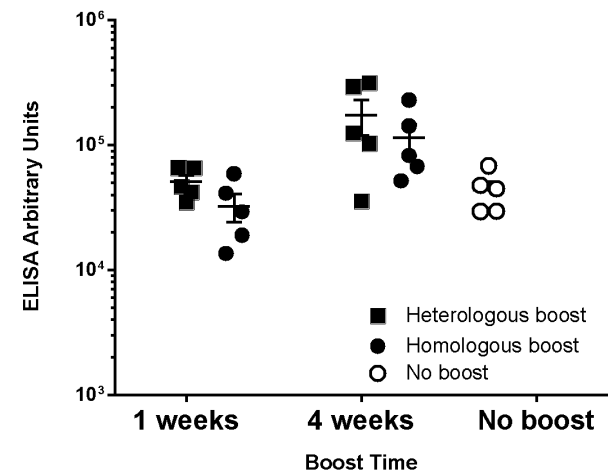


FIGURE 12

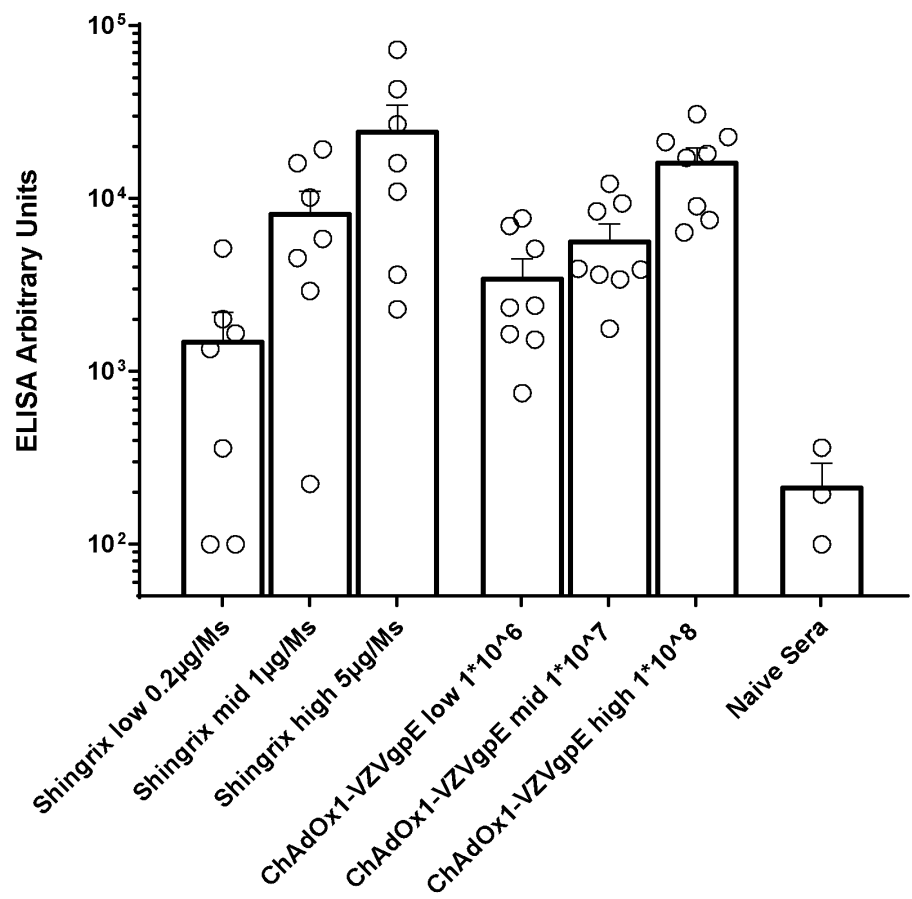


FIGURE 13

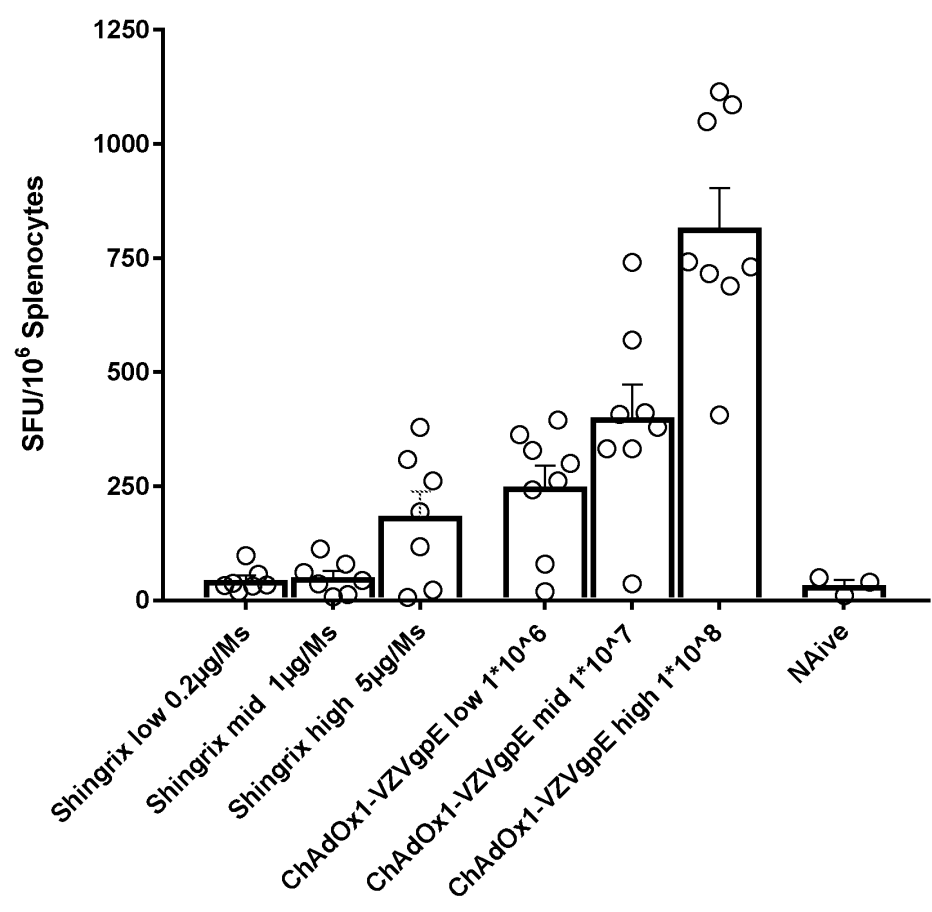


FIGURE 14

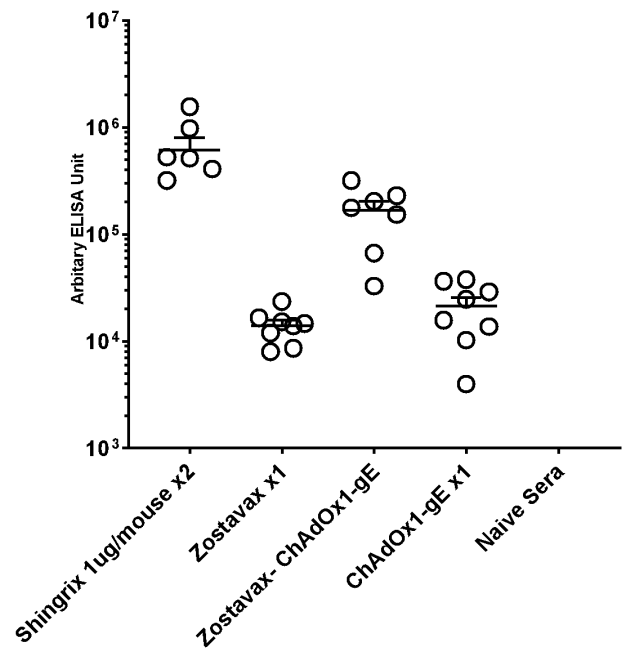


FIGURE 15

