CD8 α-chain sequences

NM_001768 & M27161
Homo sapiens (Human)
Complete CD8 alpha mRNA

Predicted polypeptide sequence

MALPVTALLLPLALLLHAARPSQFRVSPLDRTWNLGETVELKCQ

VLLSNPTSGCSWLFQPRGAAASPTFLLYLSQNKPKAAEGLDTQRFSGKRLGDTFVLTL

SDFRRENEGYYFCSALSNSIMYFSHFVPVFLPAKPTTTPAPRPPTPAPTIASQPLSLR

PEACRPAAGGAVHTRGLDFACDIYIWAPLAGTCGVLLLSLVITLYCNHRNRRRVCKCP

RPVVKSGDKPSLSARYV

mRNA

1 gaaatcaggc tccgggccgg ccgaagggcg caactttccc ccctcggcgc cccaccggct
61 cccgcgcgcc tcccctcgcg cccgagcttc gagccaagca gcgtcctggg gagcgcgtca
121 tggccttacc agtgaccgcc ttgctcctgc cgctggcctt gctgctccac gccgccaggc
181 cgagccagtt ccgggtgtcg ccgctggatc ggacctggaa cctgggcgag acagtggagc
241 tgaagtgcca ggtgctgctg tccaacccga cgtcgggctg ctcgtggctc ttccagccgc
301 gcggcgcccgc cgccagtccc acctlcctcc tatacctctc ccaaaacaag cccaaggcgg
361 ccgaggggct ggacacccag cggttctcgg gcaagaggtt gggggacacc ttcgtcctca
421 ccctgagcga cttccgccga gagaacgagg gctactattt ctgctcggcc ctgagcaact
481 ccatcatgta cttcagccac ttcgtgccgg tcttcctgcc agcgaagccc accacgacgc
541 cagcgccgcg accaccaaca ccggcgccca ccatcgcgtc gcagcccctg tccctgcgcc
601 cagaggcgtg ccggccagcg gcgggggggcg cagtgcacac gaggggggctg gacttcgcct
661 gtgatatcta catctgggcg ccctggccg ggacttgtgg ggtccttctc ctgtcactgg
721 ttatcaccct ttactgcaac cacaggaacc gaagacgtgt ttgcaaatgt ccccggcctg
781 tggtcaaatc gggagacaag cccagccttt cggcgagata cgtctaaccc tgtgcaacag
841 ccactacatt acttcaaact gagatccttc cttttgaggg agcaagtcct tccctttcat
901 tttttccagt cttcctccct gtgtattcat tctcatgatt attattttag tgggggcggg
961 gtgggaaaga ttacttttte tttatgtgtt tgacgggaaa caaaactagg taaaatctac
1021 agtacaccac aagggtcaca atactgttgt gcgcacatcg cggtagggcg tggaaagggg
1081 caggccagag ctacccgcag agttctcaga atcatgctga gagagctgga ggcacccatg
1141 ccatctcaac ctcttccccg cccgttttac aaaggggggag gctaaagccc agagacagct
1201 tgatcaaagg cacacagcaa gtcagggttg gagcagtagc tggagggacc ttgtctccca
1261 gctcagggct ctttcctcca caccattcag gtctttcttt ccgaggcccc tgtctcaggg

1321 tgaggtgctt gagtctccaa cggcaaggga acaagtactt cttgatacct gggatactgt
1381 gcccagagcc tcgaggaggt aatgaattaa agaagagaac tgcctttggc agagttctat
1441 aatgtaaaca atatcagact tttttttttt ataatcaagc ctaaaattgt atagacctaa
1501 aataaaatga agtggtgagc ttaaccctgg aaaatgaatc cctctatctc taaagaaaat
1561 ctctgtgaaa cccctatgtg gaggcggaat tgctctccca gcccttgcat tgcagagggg
1621 cccatgaaag aggacaggct acccctttac aaatagaatt tgagcatcag tgaggttaaa
1681 ctaaggccct cttgaatctc tgaatttgag atacaaacat gttcctggga tcactgatga
1741 cttttatac tttgtaaaga caattgttgg agagcccctc acacagccct ggcctctgct
1801 caactagcag atacagggat gaggcagacc tgactctctt aaggaggctg agagcccaaa
1861 ctgctgtccc aaacatgcac ttccttgctt aaggtatggt acaagcaatg cctgcccatt
1921 ggagagaaaa aacttaagta gataaggaaa taagaaccac tcataattct tcaccttagg
1981 aataatctcc tgttaatatg gtgtacattc ttcctgatta ttttctacac atacatgtaa
2041 aatatgtctt tctttttaa atagggttgt actatgctgt tatgagtggc tttaatgaat
2101 aaacatttgt agcatcctct ttaatgggta aacagcaaaa aaaaaaaaaa aaaaaaaaaa
2161 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa
2221 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a

NM_171827

Homo sapiens secreted protein derived from alternate transcript

Predicted polypeptide

MALPVTALLLPLALLLHAARPSQFRVSPLDRTWNLGETVELKCQVLLSNPTSGCSWLFQPRGAAASPTFL
LYLSQNKPKAAEGLDTQRFSGKRLGDTFVLTLSDFRRENEGYYFCSALSNSIMYFSHFVPVFLPAKPTTT
PAPRPPTPAPTIASQPLSLRPEACRPAAGGAGNRRRVCKCPRPVVKSGDKPSLSARYV

mRNA

1 gaaatcaggc tccgggccgg ccgaagggcg caactttccc ccctcggcgc cccaccggct
61 cccgcgcgcc tcccctcgcg cccgagcttc gagccaagca gcgtcctggg gagcgcgtca
121 tggccttacc agtgaccgcc ttgctcctgc cgctggcctt gctgctccac gccgccaggc
181 cgagccagtt ccgggtgtcg ccgctggatc ggacctggaa cctgggcgag acagtggagc
241 tgaagtgcca ggtgctgctg tccaacccga cgtcgggctg ctcgtggctc ttccagccgc
301 gcggcgccgc cgccagtccc accttcctcc tatacctctc ccaaaacaag cccaaggcgg
361 ccgaggggct ggacacccag cggttctcgg gcaagaggtt ggggacacc ttcgtcctca
421 ccctgagcga cttccgccga gagaacgagg gctactattt ctgctcggcc ctgagcaact
481 ccatcatgta cttcagccac ttcgtgccgg tcttcctgcc agcgaagccc accacgacgc
541 cagcgccgcg accaccaaca ccggcgccca ccatcgcgtc gcagcccctg tccctgcgcc
601 cagaggcgtg ccggccagcg gcgggggcgc cagggaaccg aagacgtgtt tgcaaatgtc
661 cccggcctgt ggtcaaatcg ggagacaagc ccagcctttc ggcgagatac gtctaaccct
721 gtgcaacagc cactacatta cttcaaactg agatccttcc ttttgaggga gcaagtcctt
781 ccctttcatt ttttccagtc ttcctccctg tgtattcatt ctcatgatta ttatttttagt
841 gggggcgggg tgggaaagat tacttttttct ttatgtgttt gacgggaaac aaaactaggt
901 aaaatctaca gtacaccaca agggtcacaa tactgttgtg cgcacatcgc ggtagggcgt
961 ggaaaggggc aggccagagc tacccgcaga gttctcagaa tcatgctgag agagctggag
1021 gcacccatgc catctcaacc tcttccccgc ccgttttaca aaggggggagg ctaaagccca
1081 gagacagctt gatcaaaggc acacagcaag tcagggttgg agcagtagct ggagggacct
1141 tgtctcccag ctcagggctc tttcctccac accattcagg tctttctttc cgaggccccct
1201 gtctcagggt gaggtgcttg agtctccaac ggcaagggaa caagtacttc ttgatacctg
1261 ggatactgtg cccagagcct cgaggaggta atgaattaaa gaagagaact gcctttggca
1321 gagttctata atgtaaacaa tatcagactt ttttttttta taatcaagcc taaaattgta
1381 tagacctaaa ataaaatgaa gtggtgagct taaccctgga aaatgaatcc ctctatctct
1441 aaagaaaatc tctgtgaaac ccctatgtgg aggcggaatt gctctcccag cccttgcatt
1501 gcagaggggc ccatgaaaga ggacaggcta ccccttaca aatagaattt gagcatcagt
1561 gaggttaaac taaggccctc ttgaatctct gaatttgaga tacaaacatg ttcctgggat
1621 cactgatgac tttttatact ttgtaaagac aattgttgga gagcccctca cacagccctg
1681 gcctctgctc aactagcaga tacagggatg aggcagacct gactctctta aggaggctga

1741 gagcccaaac tgctgtccca aacatgcact tccttgctta aggtatggta caagcaatgc

1801 ctgcccattg gagagaaaaa acttaagtag ataaggaaat aagaaccact cataattctt

1861 caccttagga ataatctcct gttaatatgg tgtacattct tcctgattat tttctacaca

1921 tacatgtaaa atatgtcttt ctttttaaa tagggttgta ctatgctgtt atgagtggct

1981 ttaatgaata aacatttgta gcatcctctt taatgggtaa acagcaaaaa aaaaaaaaaa

2041 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

2101 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

FIGURE 1

X60223
Pongo pygmaeus (Orangutan)
Complete CD8 alpha mRNA

Predicted polypeptide

MALPVTALLLPLALLLHAARPSQFRVSPLDRTWNLGETVELKCQ

VLLSNPTSGCSWLFQPRGAAASPTFLLYLSQNKPKAAEGLDTQRFSGKRLGDTFVLTL

SDFRRENEGYYFCSALSNSIMYFSHFVPVFLPVHTRGLDFACDIYIWAPLAGTCGVLL

LSLVITLYCNHRNRRRVCKCPRPVVKSGGKPSLSERYV

mRNA

1 atggccttac ccgtgaccgc cttgctcctg ccgctggcct tgctgctcca cgccgccagg
61 ccgagccagt tccgggtgtc gccgctggat cggacctgga acctgggcga gacggtggag
121 ctgaagtgcc aggtgctgct gtccaacccg acgtctggct gctcctggct cttccagccg
181 cgtggcgccg ccgccagtcc caccttcctc ctatacctct cccaaaacaa gcccaaggcg
241 gccgaggggc tggacaccca gcggttctcg ggcaagaggt tgggggacac cttcgtcctc
301 accctgagcg acttccgccg ggagaacgaa ggctactatt tctgctcggc cctgagcaac
361 tccatcatgt acttcagcca cttcgtgccg gtcttcctgc cagtgcacac gagggggctg
421 gacttcgcct gtgatatcta catctgggcg ccattggccg ggacctgtgg ggtccttctc
481 ctgtcactgg ttatcaccct ttactgcaac cacaggaacc gaagacgtgt ttgcaaatgt
541 ccccggcctg tggtcaaatc tggaggcaag cccagccttt cggagagata tgtctaa

FIGURE 1

XM_132621 & BC030679 & U34881
Mus musculus (Mouse)
Complete CD8 alpha mRNA

Predicted polypeptide

MASPLTRFLSLNLLLLGESIILGSGEAKPQAPELRIFPKKMDAE

LGQKVDLVCEVLGSVSQGCSWLFQNSSSKLPQPTFVVYMASSHNKITWDEKLNSSKLF

SAMRDTNNKYVLTLNKFSKENEGYYFCSVISNSVMYFSSVVPVLQKVNSTTTKPVLRT

PSPVHPTGTSQPQRPEDCRPRGSVKGTGLDFACDIYIWAPLAGICVALLLSLIITLIC

YHRSRKRVCKCPSIACLCLKLQGSKWYESVICSALAVSIRCNKSKSGELPLAVHLDIR

APCKNWEIAGSLVERYGKSGKHSPLSLKAVVESN

mRNA

1 atggcctcac cgttgacccg ctttctgtcg ctgaacctgc tgctgctggg tgagtcgatt
61 atcctgggga gtggagaagc taagccacag gcacccgaac tccgaatctt tccaaagaaa
121 atggacgccg aacttggtca gaaggtggac ctggtatgtg aagtgttggg gtccgtttcg
181 caaggatgct cttggctctt ccagaactcc agctccaaac tcccccagcc caccttcgtt
241 gtctatatgg cttcatccca caacaagata acgtgggacg agaagctgaa ttcgtcgaaa
301 ctgttttctg ccatgaggga cacgaataat aagtacgttc tcaccctgaa caagttcagc
361 aaggaaaacg aaggctacta tttctgctca gtcatcagca actcggtgat gtacttcagt
421 tctgtcgtgc cagtccttca gaaagtgaac tctactacta ccaagccagt gctgcgaact
481 ccctcacctg tgcaccctac cgggacatct cagccccaga gaccagaaga ttgtcggccc
541 cgtggctcag tgaaggggac cggattggac ttcgcctgtg atatttacat ctgggcaccc
601 ttggccggaa tctgcgtggc ccttctgctg tccttgatca tcactctcat ctgctaccac
661 aggagccgaa agcgtgtttg caaatgtccc agtatagcat gcttgtgcct caaactgcaa
721 ggaagcaagt ggtatgaatc tgtgatctgc tcagctctgg ctgtgagcat cagatgtaac
781 aaatcaaagt caggagaact gcctttagcg gtgcacctgg acatcagagc ccttgtaag
841 aactgggaaa ttgctggcag tctagtggag cggtacggta aatctggaaa acactccct
901 ctgtcactga aggctgtagt agaatccaat taa

Predcited polypeptide

MDAELGQKVDLVCEVLGSVSQGCSWLFQNSSSKLPQPTFVVYMA

SSHNKITWDEKLNSSKLFSAMRDTNNKYVLTLNKFSKENEGYYFCSVISNSVMYFSSV

VPVLQKVNSTTTKPVLRTPSPVHPTGTSQPQRPEDCRPRGSVKGTGLDFACDIYIWAP

LAGICVALLLSLIITLICYHRSRKRVCKCPRPLVRQEGKPRPSEKIV

FIGURE 1

mRNA

1 cgttgacccg ctttctgtcg ctgaacctgc tgctgctggg tgagtcgatt atcctgggga
61 gtggagaagc taagccacag gcacccgaac tccgaatctt tccaaagaaa atggacgccg
121 aacttggtca gaaggtggac ctggtatgtg aagtgttggg gtccgtttcg caaggatgct
181 cttggctctt ccagaactcc agctccaaac tcccccagcc caccttcgtt gtctatatgg
241 cttcatccca caacaagata acgtgggacg agaagctgaa ttcgtcgaaa ctgttttctg
301 ccatgaggga cacgaataat aagtacgttc tcaccctgaa caagttcagc aaggaaaacg
361 aaggctacta tttctgctca gtcatcagca actcggtgat gtacttcagt tctgtcgtgc
421 cagtccttca gaaagtgaac tctactacta ccaagccagt gctgcgaact ccctcacctg
481 tgcaccctac cgggacatct cagccccaga gaccagaaga ttgtcggccc cgtggctcag
541 tgaaggggac cggattggac ttcgcctgtg atatttacat ctgggcaccc ttggccggaa
601 tctgcgtggc cttctgctg tccttgatca tcactctcat ctgctaccac aggagccgaa
661 agcgtgtttg caaatgtccc aggccgctag tcagacagga aggcaagccc agaccttcag
721 agaaaattgt gtaaaatggc accgccagga agctacaact actacatgac ttcagatctc
781 ttcttgcaag aggccaggcc ctccttttc aagtttcctg ctgtcttatg tattgccctc
841 tgtattgttt tagtaggggt gtgatgggga cagttccttt ttctttatga attctctttg
901 acacaaagca tacttgtatg catacaatgg gagtaatgag cagactgtaa caccagagct
961 agttccagtt tcggggtcca tgtcgctggt ggcctcagca cccacttgat ataaatctcc
1021 tgtctgccca tcatatagaa gaagctgaag atcagaggtg gaaacagcag gatctgtaga
1081 cccggagaga acccaagcta gaggaaccct cactgactgg tgcagggatc tcacccccat
1141 cccctgagct ctctgtttag gtatgtgtct ttagtatagc atgcttgtgc ctcaaactgc
1201 aaggaagcaa gtggtatgaa tctgtgatct gctcagctct ggctgtgagc atcagatgta
1261 acaaatcaaa gtcaggagaa ctgcctttag cggtgcacct ggacatcaga gcccttgta
1321 agaactggga aattgctggc agtctagtgg agcggtacgg taaatctgga aaacactccc
1381 ctctgtcact gaaggctgta gtagaatcca attaaagcta ttcaaaccac aaaaaaaaaa
1441 aaaaaaaaaa aa

Predicted polypeptide

MASPLTRFLSLNLLLMGESIILGSGEAKPQAPELRIFPKKMDAE

LGQKVDLVCEVLGSVSQGCSWLFQNSSSKLPQPTFVVYMASSHNKITWDEKLNSSKLF

SAVRDTNNKYVLTLNKFSKENEGYYFCSVISNSVMYFSSVVPVLQKVNSTTTKPVLRT

PSPVHPTGTSQPQRPEDCRPRGSVKGTGLDFACDIYIWAPLAGICVAPLLSLIITLIC

YHRSRKRVCKCPRPLVRQEGKPRPSEKIV

mRNA

FIGURE 1

1 atggcctcac cgttgacccg ctttctgtcg ctgaacctgc tgctgatggg tgagtcgatt
61 atcctgggga gtggagaagc taagccacag gcacccgaac tccgaatctt tccaaagaaa
121 atggacgccg aacttggcca gaaggtggac ctggtatgtg aagtgttggg gtccgtttcg
181 caaggatgct cttggctctt ccagaactcc agctccaaac tcccccagcc caccttcgtt
241 gtctatatgg cttcatccca caacaagata acgtgggacg agaagctgaa ttcgtcgaaa
301 ctgtttttctg ccgtgaggga cacgaataat aagtacgttc tcaccctgaa caagttcagc
361 aaggaaaacg aaggctacta tttctgctca gtcatcagca actcggtgat gtacttcagt
421 tctgtcgtgc cagtccttca gaaagtgaac tctactacta ccaagccagt gctgcgaact
481 ccctcacctg tgcaccctac cgggacatct cagccccaga gaccagaaga ttgtcggccc
541 cgtggctcag tgaaggggac cggattggac ttcgcctgtg atatttacat ctgggcaccc
601 ttggccggaa tctgcgtggc ccctctgctg tccttgatca tcactctcat ctgctaccac
661 aggagccgaa agcgtgtttg caaatgtccc aggccgctag tcagacagga aggcaagccc
721 agaccttcag agaaaattgt gtaa

NM_031638
Rattus norvegicus (Rat)
Complete CD8 alpha mRNA

Predicted polypeptide

MASRVICFLSLNLLLLDVITRLQVSGQLQLSPKKVDAEIGQEVK

LTCEVLRDTSQGCSWLFRNSSSELLQPTFIIYVSSSRSKLNDILDPNLFSARKENNKY

ILTLSKFSTKNQGYYFCSITSNSVMYFSPLVPVFQKVNSIITKPVTRAPTPVPPPTGT

PRPLRPEACRPGASGSVEGMGLGFACDIYIWAPLAGICAVLLLSLVITLICCHRNRRR

VCKCPRPLVKPRPSEKFV

mRNA

1 ccctagagcc ctagcttgac ctaaggtgct ggtgggacgc acaccatggc ctcacgggtg
61 atctgctttc tgtcgctgaa cctgctactg ctggatgtta tcactaggct ccaggtttcc
121 ggacagttac agttgtcacc aaagaaagtg gacgctgaaa ttggccagga ggtgaagcta
181 acatgcgaag tgctgcggga cacttcgcaa ggatgctctt ggctcttccg gaactccagc
241 tccgaactcc tccagcccac cttcatcatc tatgtatctt catcccggag caagctgaac
301 gatatactgg atccgaatct gttctctgcc cggaaggaaa acaacaaata catcctcacc
361 ctgagcaagt tcagcactaa aaaccaaggc tactatttct gctcaatcac cagcaactcg
421 gtgatgtact tcagtcctct ggtgccggtg tttcagaaag tgaactctat tatcaccaag
481 ccggtgacgc gagctcccac accagtgcct cctcctacag ggacaccccg gcccctacga
541 ccagaagctt gccgacccgg ggcgagtggc tcagtggagg gaatgggatt gggcttcgcc
601 tgcgatattt acatctgggc accttggcc ggaatctgcg cggttcttct gctgtcctg
661 gtcatcactc tcatctgctg ccacaggaac cgaaggcgtg tttgcaaatg tcccaggccc
721 cttgtcaagc ccagaccttc agagaaattc gtgtaaaatg gcgccactag gaagccacaa
781 ctactacatg acttcagaga tttctcacaa gagaccgggc cctcctttt cagagtttcc
841 tgctggctta tatattgtcc tctgtattgt tttaggggta ggatggggac agttcctttt
901 tctttatgaa ttctctttga tacaaaacat acttgtatgc acacaatggg gtaaagatca
961 gactgtaaca ccagagatag tcccagtttc agggtcagcg tagctggtgg

AY303773
Cavia porcellus (Guinea Pig)
Complete CD8 alpha mRNA
Predicted polypeptide

MAPRGSAWLLLLPVALLLDAATAQGASQFRMSPRELVAQVGTKV

TLRCEVLVPNAPAGCSWLFQPRHDAKGPTFLLYHSASGTKLAPGLEQKRFSPSKSSNT

YTLTVNSFQKRDEGYYFCSVSGNMMLYFSPFVPVFLPAPRTTTPPPPPTTPTPSVQPT

SVRPETCVVSKGAAGARWLDLSCDVYIWAPLASTCAALLLALVITIICHRRNRQRVCK

CPRPQARSGGKPSPSGKLV

mRNA

1 gcaacttccc cactgcgcat cccctggctc ctggtggctc ctgggcggct cccttcacgc
61 ctggactcca ggctctgccc tgcgccgagg agcgcgcgcc atggccccgc gaggaagcgc
121 ctggctgctg ctgctgccgg tggccctgct gctcgacgcc gccacggccc aaggtgccag
181 tcagttccga atgtcacccc gtgaactggt cgcgcaagtc ggcaccaaag tgaccctgcg
241 ctgtgaggtg ctggtgccta acgcgccggc gggatgctcg tggctcttcc agccccgcca
301 cgacgccaaa ggtcccacct tcctcctgta ccattcggcg tccgggacca agttggcccc
361 agggctggaa cagaagcgat tcagcccctc gaagagcagt aacacctaca ccctcacggt
421 gaacagcttc cagaagcgag acgaaggcta ctacttctgc tcggtctccg gcaacatgat
481 gctctacttc agcccgttcg ttcccgtctt cctgccagct cctcgcacca cgacgccccc
541 tcccccctcc accacgccga ccccagcgt gcagcccacg tcggtgcgcc ccgagacgtg
601 tgtggtctct aagggcgcag caggtgcgag gtggctggat ctctcctgtg atgtctacat
661 ctgggcgccc ctggccagca catgcgcggc ccttctgctg gcactggtca tcacgatcat
721 ctgccaccgc aggaacagac aacgcgtttg caaatgtcct aggccccaag ccaggtctgg
781 aggcaaaccc agcccttcag ggaagttagt ctaacaacat ggcgcccagc ctgtgcgaag
841 ccactacatg actttatact gagatcattc cttggacagc aagtgctcct cttttgggtt
901 tcccagtctt ccttcctatg tatttgttct cattactatt ttagtgggca tggggtggga
961 agagttgctt tttcgttaga caaaaaataa aaccatgtag catctgcagc tcacaagggt
1021 cacagggctg ttacctcaca caggggttag ggtagcaagc agggctctca ggtactggaa
1081 ttcactccct tccactcact tgagggtggg cagcacccac gggtcattta tccctcatca
1141 tgctcctcca cccacttgag ctcagatgcc acccaaagag cagtctatct aaacccaggc
1201 caaacacatg caactgcttt ttgaacccga gagcctaatt tatctgcaga gaatgcaagt
1261 gctcctttgt cacttatatc ttgtccatga cctttaataa atgtgctgct tttcctcaa
1321 aaaaaaaaaa

NM_174015
Bos taurus (Cow)
Complete CD8 alpha mRNA

Predicted polypeptide

MASLLTALILPLALLLLDAAKVLGSLSFRMSPTQKETRLGEKVE

LQCELLQSGMATGCSWLRHIPGDDPRPTFLMYLSAQRVKLAEGLDPRHISGAKVSGTK

FQLTLSSFLQEDQGYYFCSVVSNSILYFSNFVPVFLPAKPATTPAMRPSSAAPTSAPQ

TRSVSPRSEVCRTSAGSAVDTSRLDFACNIYIWAPLVGTCGVLLLSLVITGICYRRNR

RRVCKCPRPVVRQGGKPNLSEKYV

mRNA

1 gaattcggat ccaccatggc ctcactcttg accgccctga tcctgccgct ggccctgctg
61 ctgctcgatg ccgccaaggt cctcgggtcg ctctcgttcc ggatgtcgcc gacgcagaag
121 gagaccagac tgggcgagaa ggtggagctg caatgcgagt tgctgcagtc cggcatggcg
181 acagggtgct cctggctccg ccacataccc ggggacgacc ccagacccac cttcctaatg
241 tacctctccg cccaacgggt caagctagcc gagggactgg accccagaca catttccggc
301 gccaaggtct ccggcaccaa attccagctc accctgagca gcttcctcca ggaggaccaa
361 ggctactatt tttgctcggt cgtgagcaac tcgatactgt acttcagtaa cttcgtgcct
421 gtcttcttgc cagcgaagcc ggccaccacg ccggcgatgc ggccatccag cgcggcgccc
481 accagcgcgc cgcagactag gtcggtctct ccgcgatcag aggtgtgccg gacctcggcg
541 ggcagccgcag tggacacgag ccggctggac ttcgcctgca atatctacat ctgggctccc
601 ttggtcggga cctgcggcgt ccttctcctg tcattggtca tcacaggcat ctgctaccgc
661 cggaaccgaa gacgtgtctg caaatgtccc aggcctgtgg tccgacaagg aggcaagccc
721 aacctttcag agaaatatgt ctaacatggc gatgggcccc gtgtgacagc cactacaaga
781 cttcgcactg agaactctcc tgagatcctt ccctttgat ttctccctgc ttccttcctt
841 ctcgttatta ttatttttca tgggggtggg gtgggaagag ttactttttc tttattattt
901 actttgatac aaaacaagac actcgtgtct aaggcatacc acaagggtta tcatgctgtt
961 gtgctcccat actcgggtag agggcgggcg ggccagagct accgcaagct ctattctcag
1021 aacctggctg tgagaactgg tgggggcctc ggcacccact cagccccaac ttctcctcca
1081 cccattttac aaaagaggac gctgaggccc agagatgggg aacagctgga tcagagtccc
1141 agcagggctc cacacaactg agatctttct tctggaggcc tctgtctcag cgtggggagc
1201 tggatctcaa gcctcagaga actagttatt tctgaagcat ctgtgataga cccatgactg
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1321 actgctgaac aggatcagat tatttttttt ataatcaagc atgaaatgat acagataata
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1501 agaaggaccc tcaaagagga gaggccaccc tctgcaagca tgatttgagc gttaggaaag
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1681 ctggcacccc aggctagcag ctgagggaat gtgcagacac tggtgaggag gctacgagcc
1741 cagctgcagc cctacaaggc atttccttcc ttactgtgtt ctgcaaaaaa tgcatgctca
1801 ctgggagaaa aaatgtagct aaggtagtaa gaatcatccg taattcttta cctcagggat
1861 aatccattgt taatattatg ggctacattc ttcctgatta ttttctgtgc cctacatata
1921 aaatatataa tttttaaaaa tgggattgca ctatgctttt ataaatggct ttaataaaca
1981 aacatttatg gcttacttct t

AY517855
Sus scrofa (Domestic pig)
Complete CD8 alpha mRNA

Predicted polypeptide

VELQCELMHSNTLTSCSWLYQKPGAASKPIFLMYLSKTRNKTAE

GLDTRYISGYKANDNFYLILHRFREEDQGYYFCSFLSNSVLYFSNFMSVFLPAKPTKT

PTTPPPKRTPTKASHAVSVAPEVCRPSGNADPRKLDLACDLYNWAPLVGTSGILLLSL

VITIICHRRNRRRVCKCPRPVVRQGGKASPSERFI

mRNA

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61 cagaagccgg gggctgcctc caagcccatc ttcctcatgt acctctccaa aacccggaat
121 aagacagccg aggggctgga cacccgttac atctctggtt acaaggccaa tgacaacttc
181 tacctcatcc tgcaccgctt ccgcgaggag gaccaaggct actatttctg ctcgttcctg
241 agcaactcgg ttttgtattt cagcaacttc atgtccgtct tcttgccagc aaagcccacc
301 aagacgccga ctacgccacc acccaagcgg actcccacca aagcgtcgca cgccgtgtct
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421 tgtgatctgt acaactgggc gccctggtt gggacctccg gcatccttct cctgtcactg
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721 ttatttccat gggggtgggg tgggaagggt gacttttttct ttgggtgttt actttaattg
781 acacaaaaacg agactctatc acgtctttgg tacgccgcag gggttcgaac accgttgtgc
841 tcacacacac aacggtgaag ggtgggcggg ccagagctac cgcaagctgt gttctcagaa
901 ccaggctgtg agagctggtg gggggtgggg aggccctcgg cacccacaca ggccaaacct
961 ctccccctgc ccccccatttt acaaaggaat gaggctgagg cccagagatg gggggtggct
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1141 gggcacctgt gatagactct gcactgtgcc cagagccccg gggaggcaat gcagtaagtc
1201 aaggggacgt gacagaggtc tacggtgcag ttgaacagga tcagatatat ttttttaat
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1321 tgaatcctgg aaagtgaaca acacgacctc taaaggaaat ccaatgcaaa aaatctctaa
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1561 gaccgagtag ctggcctccc ctggaccagc agctgtggat atggggcaga ctctgatgag

1621 gaggctagga gcccagactg ctgccctcta cgcgcatttc ctctcttaac catgttgtac

1681 aagaaatgcg tgctcgctgg aagaaaaaac taaataataa gagtcaccca taattcttta

1741 cttctggtat aactcattgt taatattatg gtgtacattc ttcctgatta ttttctatgc

1801 acgtatataa aatgtatact ttttaaaaat ggaattgtac tatgctttta gaagtggttt

1861 taataaacat ttctgctatg aaaaaaaaaa a

D16536
Felis catus (cat)
Complete CD8 alpha mRNA
Predicted polypeptide

MASPVTAQLLPLALLLHAAAAAGPSPFRLSPVRVEGRLGQRVEL

QCEVLLSSAAPGCTWLFQKNEPAARPIFLAYLSRSRTKLAEELDPKQISGQRIQDTLY

SLTLHRFRKEEEGYYFCSVVSNSVLYFSAFVPVFLPVKPTTTPAPRPPTQAPITTSQR

VSLRPGTCQPSAGSTVEASGLDLSCDIYIWAPLAGTCAFLLLSLVITVICNHRNRRRV

CKCPRPVVRAGGKPSPSERYV

mRNA

1 atggcctctc cggtgactgc ccagctcctg ccgctggcct tgctgcttca tgccgccgca
61 gccgccgggc cgagcccgtt ccgcttatcg cccgtgaggg tggagggcag gctcggccag
121 cgggtggagc tgcagtgcga ggtgctgctg tccagcgcgg cgccgggctg cacctggctc
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241 accaagttgg ccgaggagct ggaccccaaa cagatctcgg gccagaggat tcaggacacc
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421 cccaccacta cgcccgcgcc gcgaccgccc acgcaggcgc ccatcaccac gtcgcagcgg
481 gtgtctctgc gcccggggac ctgccagcct tcagcgggca gcacagtgga agcaagtggg
541 ctggatttgt cctgtgacat ctacatctgg gcaccccctgg ctgggacctg cgccttcctt
601 ctcctgtcgc tggtcatcac cgtcatctgc aaccacagga accgaagacg tgtttgcaaa
661 tgtccgaggc ccgtggtcag agcaggaggc aagcctagcc cgtcagagag atacgtctaa
721 catggagatg ggccccatgc accagccact acaagaccaa ataaaactct ctttatgagg
781 acagt

FIGURE 1

AY065643
Sigmodon hispidus (Hispid cotton rat)
Complete CD8 alpha mRNA
Predicted polypeptide

MAPRVTRFLCLTLLLEFIAELGGSKDFEMSPKKVVAHLGKEVRL

TCEVWVSTSQGCSWLFLEHGSGVKPTFLIYLSGSRNERNNKIPSTKLSGKKEDKKYTL

TLNNFAKEDEGYYFCSVTSNSVVYFSPLVSVFLPEKPTTPVPKPPTSVPTTAISRSLR

PEACRPGAGTSVEKKGWDFDCDIIILAPLAGLCGVLLLSLVTTLICCHRNRKRVCKCP

RPVVRQGGKPSPSGKLV

mRNA

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61 tctgtgcctg accctgctgc tggaatttat cgctgagctc ggaggctcga aagatttcga
121 aatgtctcct aagaaggtgg tcgcccacct tggcaaggag gtgaggctaa catgcgaagt
181 gtgggtgtct acttcgcaag gatgctcttg gctcttcctg gagcatggct ccggagttaa
241 acccacttic ctcatctatc tctctgggag ccgcaacgaa cggaataaca aaatacctic
301 aactaagcta tctgggaaga aggaagacaa aaagtacacc ctcaccctga ataattttgc
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421 tcctctcgtg tcggtctttc tgccagagaa acctaccaca ccagtgccga aaccacccac
481 atcagtgccc actacggcga tatctcggtc cctgcgacca gaagcttgcc gacctggagc
541 cggcacctca gtggagaaga agggatggga cttcgactgt gatatcatca ttttggcacc
601 cttagctgga ctctgtgggg tccttctgct gtctctggtc accacactca tctgctgcca
661 caggaacaga aaacgagtct gcaaatgtcc caggcccgtg gtcagacaag gaggcaagcc
721 cagcccttca gggaaactcg tgtaagatgg cgccaagaaa ctacaactac tacttcagag
781 acctcttcat ctagagctcc agctctcctt cttcaatttt tctcaccttc ctatatattg
841 ttctttgtat tattttagtg ggggtaggac agggttggaa ccatttcctt tctttatgaa
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961 gttgctgcgt acatagcatg tgggggaagt acagaacagc tgtctgggtt ctcaggatca
1021 gtggatgatc agcacccact tgatgatcta aatgccctgt ctgcccatta tatagaagag
1081 gttgaaggtc agaaatgggg tgggcaggat ctgtgcacca ggagagaacc caagctgacg
1141 aaatcctcac tggatggctc agggaacttg cctctatatc ctgagttctc tttattcagg
1201 cctgtgcctg gtagtgtgta ggctgagta

AJ130818
Saimiri sciureus (Common Squirrel Monkey)
Complete CD8 alpha mRNA

Predicted polypeptide

MASPVTALLLPLALLLHAARPSRFRVSPLDRTWNLGDKVELKCE

VLLSNPSSGCSWLFQKRGAAASPTFLLYISQTKPKVADGLDAQRFSGKKMGDSFILTL

RDFREEDQGFYFCSALSNSIMYFSPFVPVFLPAKPTTTPAPRPPTPEPTTASQPLSLR

PQACRPPAGGAVDTRGLDFACDIYIWVPLAGTCGVLLLSLVITVYCNHRNRRRVCKCP

RPAVKSGGKPSPSERYV

mRNA

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61 ccgagccggt tccgggtgtc gccgctggat cggacctgga acttgggcga caaggtggag
121 ctgaagtgcg aggtgctgct gtccaacccg tcctcgggct gctcgtggct cttccagaag
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361 tccatcatgt acttcagccc cttcgtgccg gtcttcctgc cagcgaagcc caccacgacg
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601 gtcatcaccg tttattgcaa tcacaggaac cgacgacgtg tttgcaaatg tccccggcct
661 gcggtcaagt ctggaggcaa gcccagccct tcggagagat acgtctaa

Domains of the CD8 α-Chains

Leader
Transmembrane

Human CD8 α-Chain

Protein:

MALPVTALLL PLALLLHAAR PSQFRVSPLD RTWNLGETVE LKCQVLLSNP
TSGCSWLFQP RGAAASPTFL LYLSQNKPKA AEGLDTQRFS GKRLGDTFVL
TLSDFRRENE GYYFCSALSN SIMYFSHFVP VFLPAKPTTT PAPRPPTPAP
TIASQPLSLR PEACRPAAGG AVHTRGLDFA CDIYIWAPLA GTCGVLLLSL
VITLYCNHRN RRRVCKCPRP VVKSGDKPSL SARYV

mRNA - coding

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acctgggcga gacagtggag ctgaagtgcc aggtgctgct gtccaacccg
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Figure 2A

mouse CD8 α-Chain

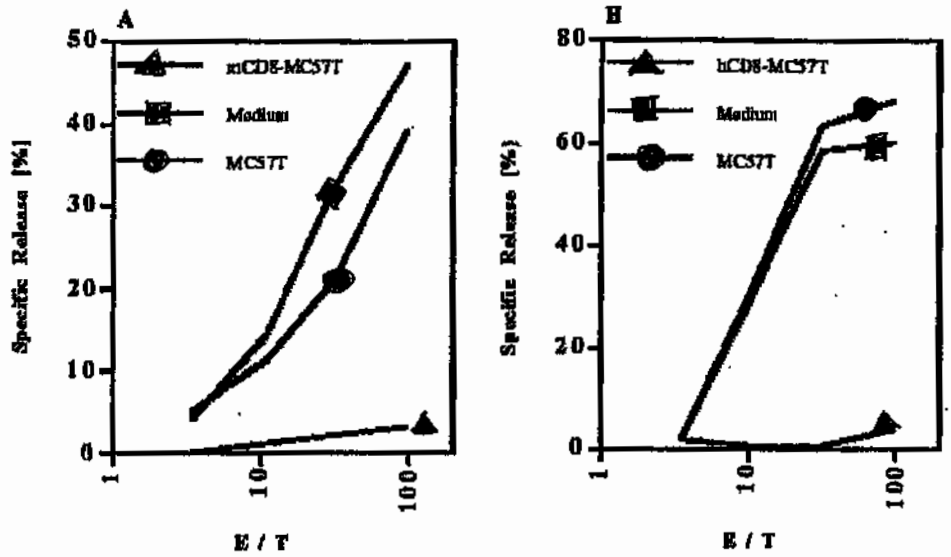
Protein:

MASPLTRFLS LNLLLLGESI ILGSGEAKPQ APELRIFPKK MDAELGQKVD
LVCEVLGSVS QGCSWLFQNS SSKLPQPTFV VYMASSHNKI TWDEKLNSSK
LFSAMRDTNN KYVLTLNKFS KENEGYYFCS VISNSVMYFS SVVPVLQKVN
STTTKPVLRT PSPVHPTGTS QPQRPEDCRP RGSVKGTGLD FACDIYIWAP
LAGICVALLL SLIITLICYH RSRKRVCKCP SIACLCLKLQ GSKWYESVIC
SALAVSIRCN KSKSGELPLA VHLDIRAPCK NWEIAGSLVE RYGKSGKHSP
LSLKAVVESN

mRNA - Coding

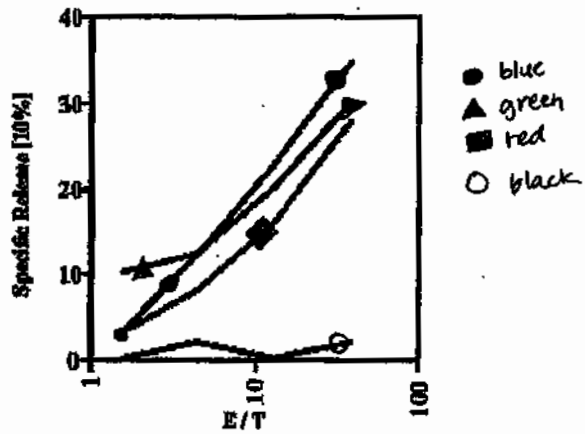
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tccgaatctt tccaaagaaa atggacgccg aacttggtca gaaggtggac
ctggtatgtg aagtgttggg gtccgtttcg caaggatgct cttggctctt
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cttcatccca caacaagata acgtgggacg agaagctgaa ttcgtcgaaa
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caagttcagc aaggaaaacg aaggctacta tttctgctca gtcatcagca
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tctactacta ccaagccagt gctgcgaact ccctcacctg tgcaccctac
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tgaaggggac cggattggac ttcgcctgtg atatttacat ctgggcaccc
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tcagctctgg ctgtgagcat cagatgtaac aaatcaaagt caggagaact
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Figure 2B



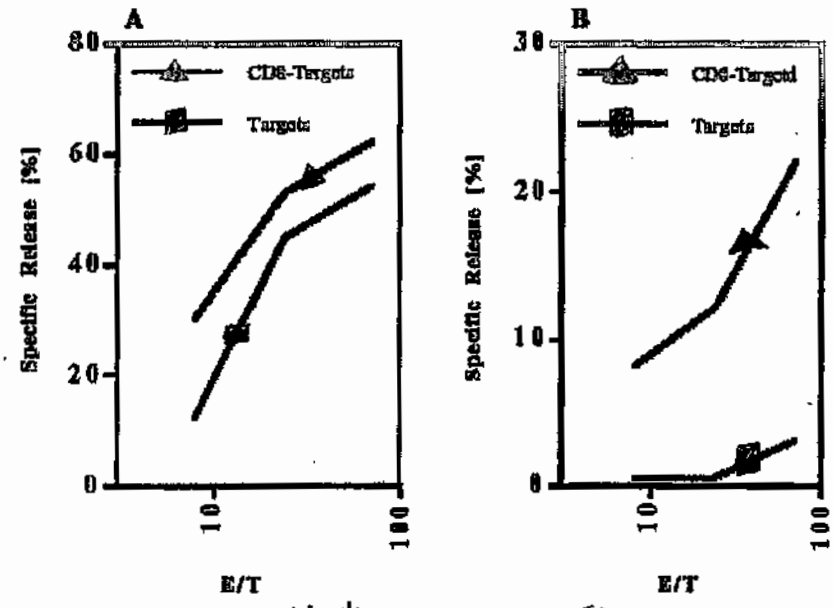
Balb/c spleen cells were stimulated with C57BL/6 spleen cells. Cultures were supplemented with normal fibroblasts (blue), medium (red) or fibroblasts with CD8 (green) of mouse (A) or human (B) origin. Cultures were harvested and tested for their lytic ability towards C57BL/6-derived target cells.

Figure 3

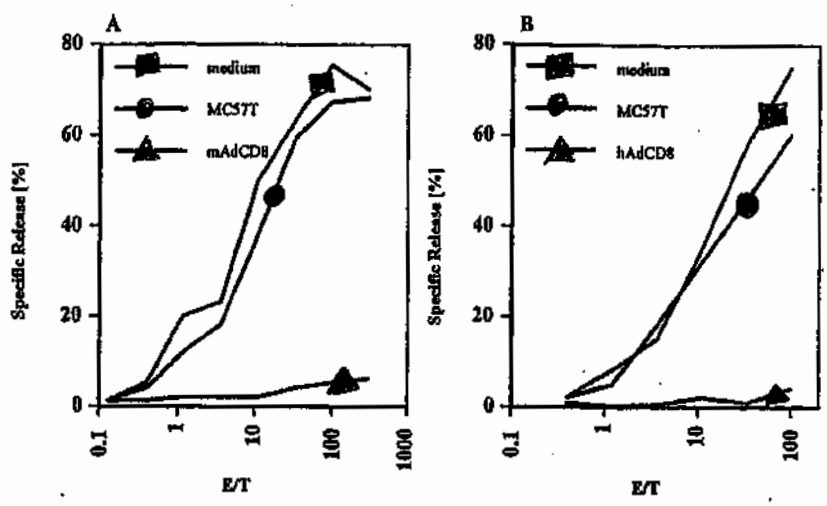


Balb/c (H-2d) mice were injected with control fibroblasts(red and green) or mCD8-transfected C57BL/6-(H-2b) derived (black and blue) fibroblasts. After two weeks animals were sacrificed, spleen cells were harvested, stimulated with C57BL/6 (H-2b) (red and black) or CBA/J (H-2k) (blue and green) spleen cells and tested for their lytic ability on BL4 (H-2b) (red and black) or S.AKR (H-2k) (blue and green) target cells.

Figure 4



Target cells (green triangle) or CD8-expressing targets (red square) were tested for their susceptibility to lysis by alloreactive T cells (A) or by antigen-specific CTLs (B).



circle MLCs (Balb/c anti-C57BL/6) were set up in the presence of normal fibroblasts (blue) and fibroblasts transduced with mAdCD8 (A, green) or hAdCD8 (B, green). No fibroblasts were added to control cultures (red). The lytic activity of these cultures towards an C57BL/6-derived target was determined at the end of the culture period. triangle

Figure 6

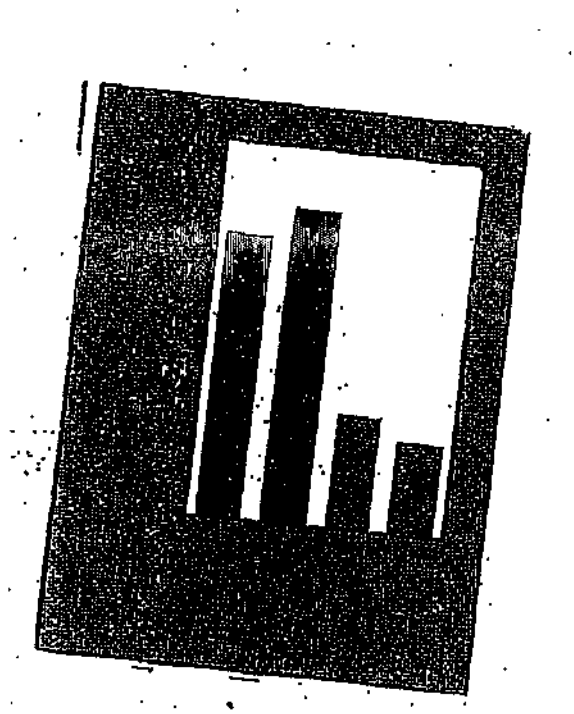


FIGURE 7

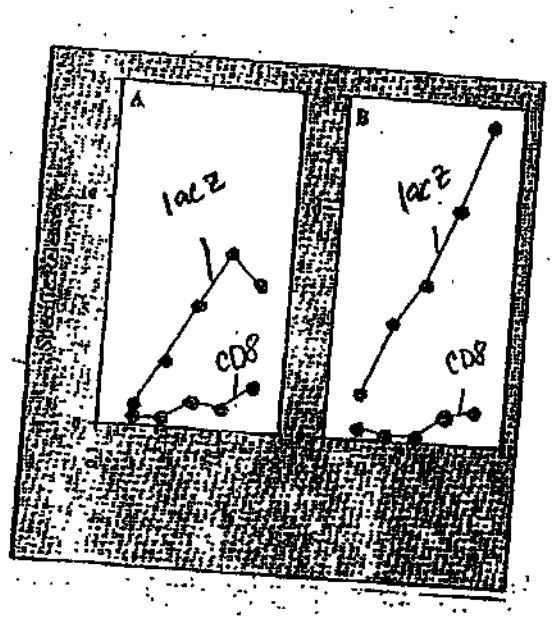
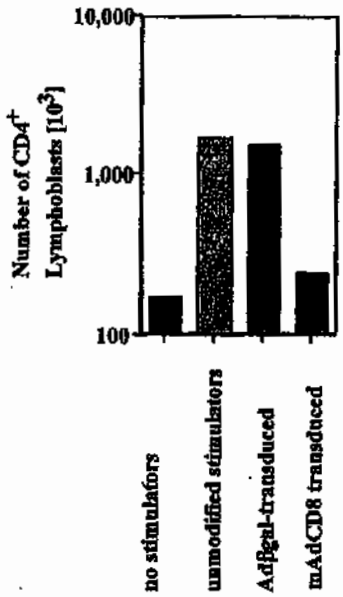


FIGURE 8



3x10^6 C7Bl/6 spleen cells were incubated with 1x10^6 (or no) stimulator cells, transduced as indicated. After 4 days the cultures were analyzed for presence CD4$^+$ T lymphoblasts by immunofluorescence.

Figure 9

FIGURE 10A

Infected Cells: MC57T Fibroblasts
Panel 1: Mock-Infection; Panel 2: Infection with hAdCD8

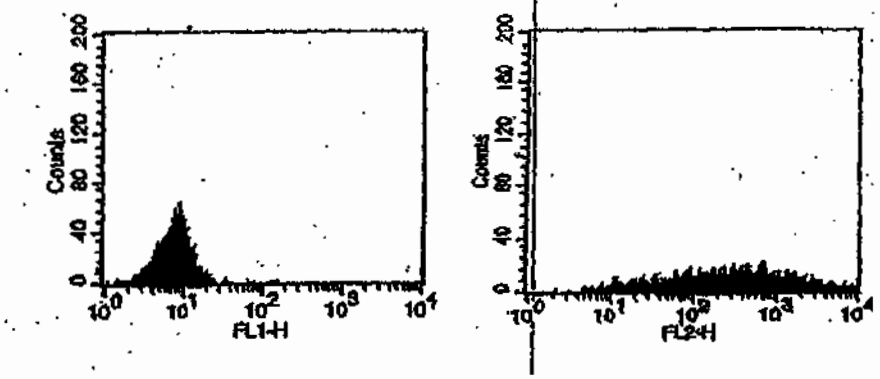


FIGURE 10B

Infected Cells: MC57T Fibroblasts
Panel 1: Mock-Infection; Panel 2: Infection with mAdCD8

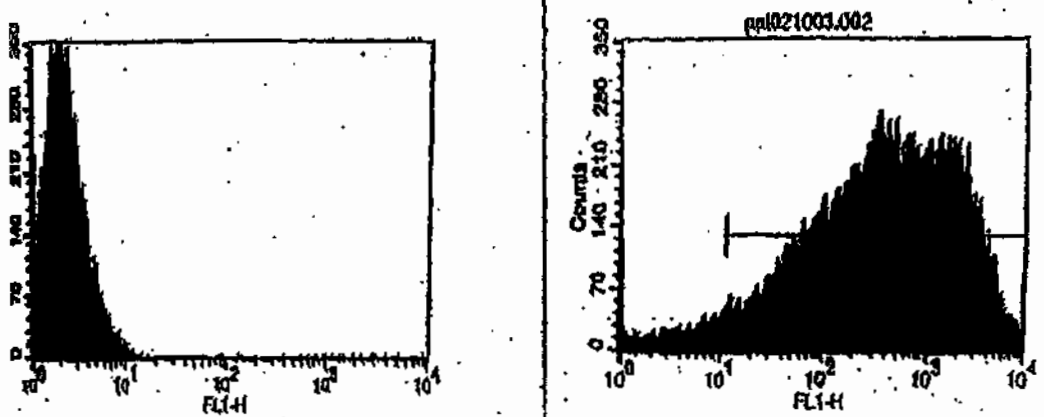


FIGURE 10C

Infected Cells: Balbc unselected bone marrow cells:
Panel 1: Infection with lacZ Adenoviral Vector (AdLacZ);
Panel 2: Infection with mAdCD8

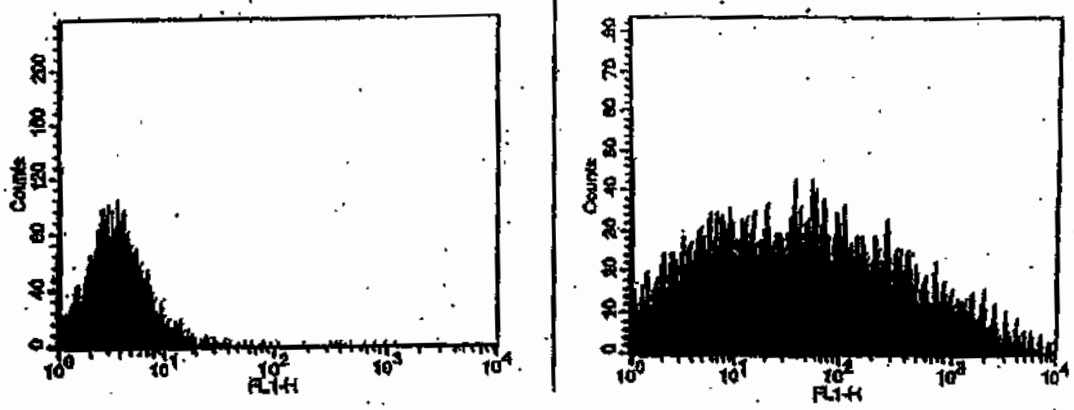
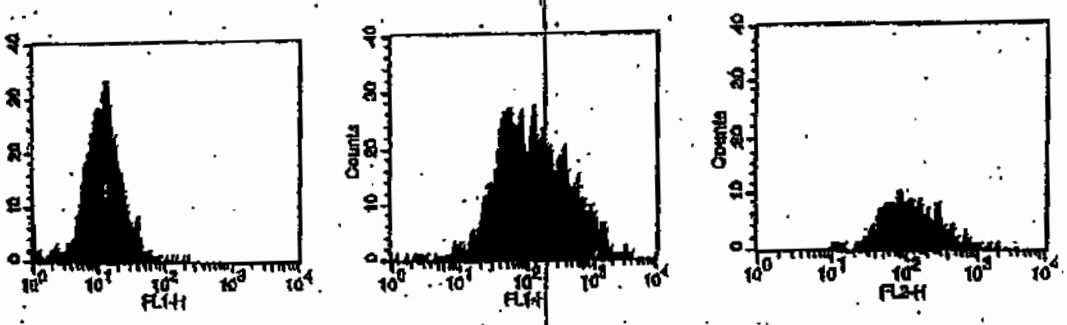
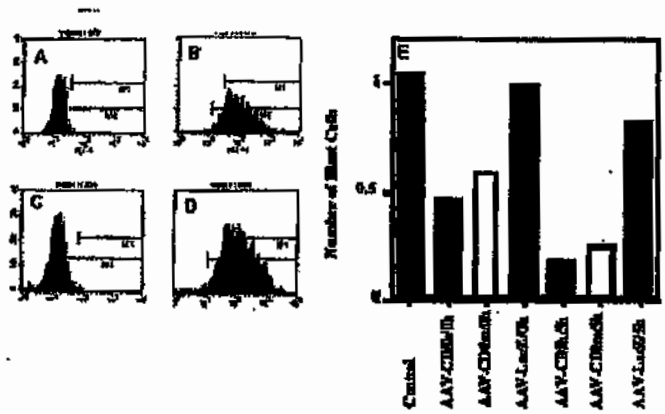


FIGURE 10D

Infected Cells: MC57T Fibroblasts
Panel 1: Mock-Infection;
Panel 2: Infection with pAAV-mCD8;
Panel 3: Infection with pAAV-hCD8





Fibroblasts were transduced with mAAVCD8 (B) or hAAVCD8 (D) or mock-infected (A and C). Surface expression of CD8 was detected by surface immunofluorescence (A through D). MLCs (Balb/c anti-C57BL/6) were set up in the presence of these fibroblasts that had been cultured for 0 or 5 hours after transduction before they were added to the MLCs. At end of cultures, the number of lymphoblasts was determined on a fluorescence activated cell analyzer.

Figure 11

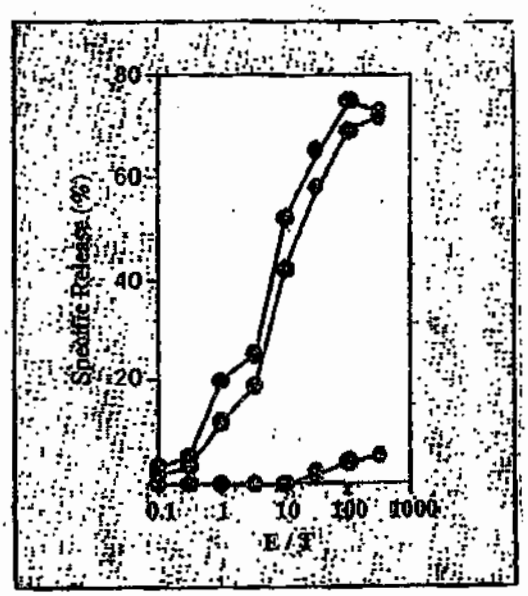
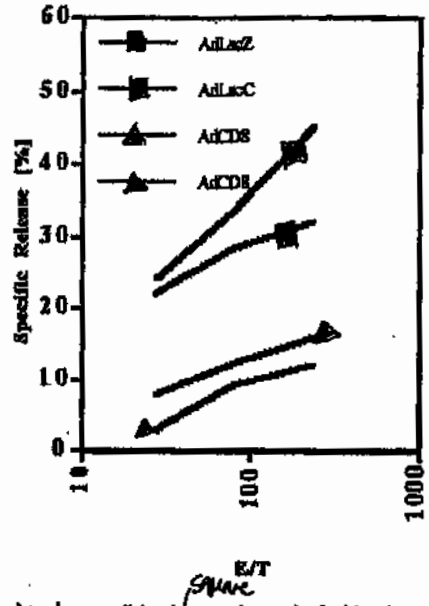


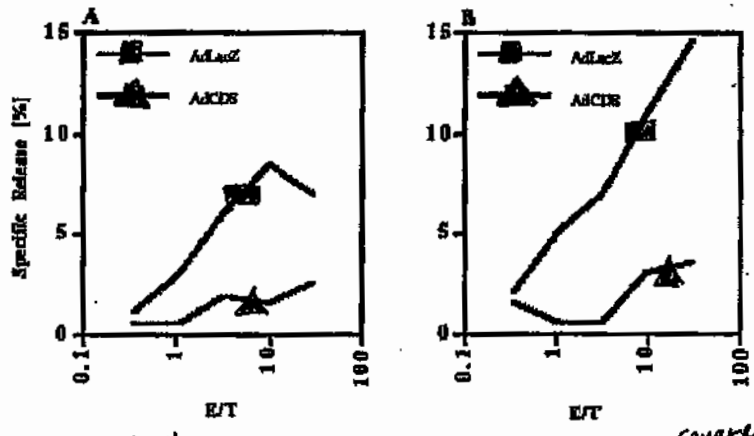
FIGURE 12



triangle Balb/c mice were immunized with AdLacZ (green) or mAdCD8 (red). Their spleen cells were cultured in the presence of AdLacZ and tested for specific lytic activity against AdLacZ-infected syngeneic P815 target cells.

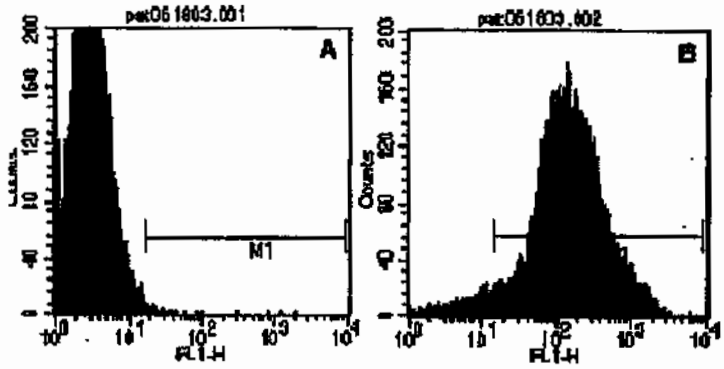
square

Figure 13



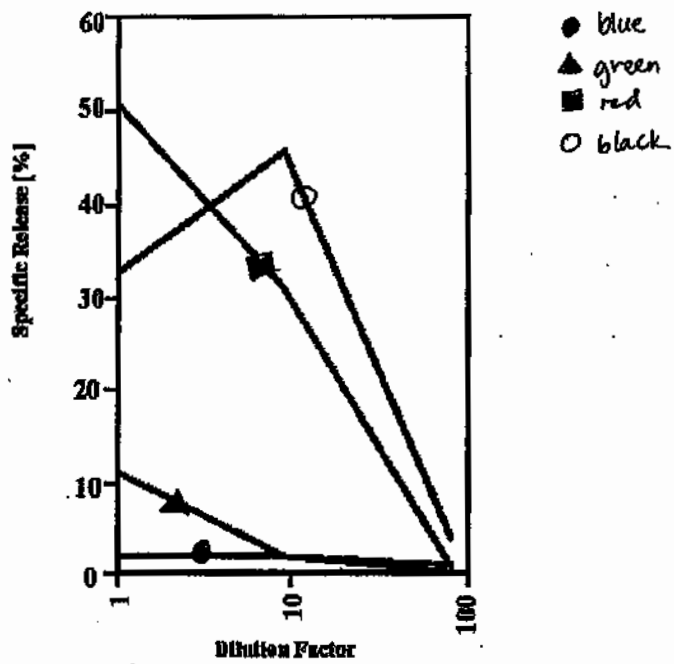
triangle (A) C57BL/6 animals were immunized with AdLacZ (red) or mAdCD8 (green). They lytic activity of their spleen cells towards syngeneic AdLacZ BL4 target cells was tested. (B) Such animals were re-immunized with AdLacZ prior to testing their lytic activity against AdLacZ-infected BL4 targets.

square



Single cell suspensions were prepared from newborn hearts. The heart muscle cells were transduced with mAdCD8 (B) or mock-infected, cultured for 48 hours and stained for the surface expression of CD8.

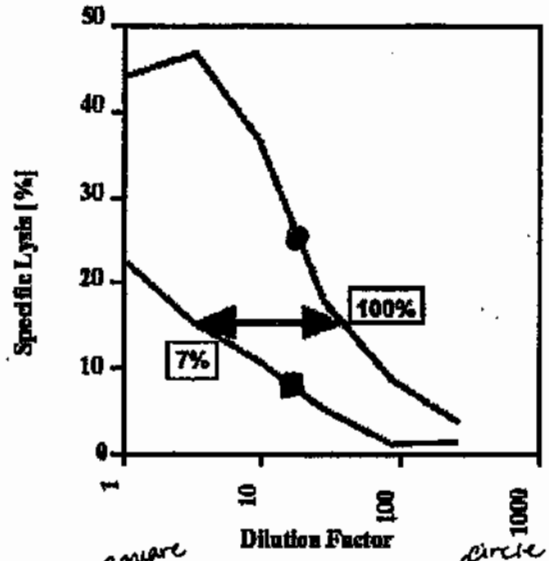
Figure 15



Square
Triangle
circle
open circle

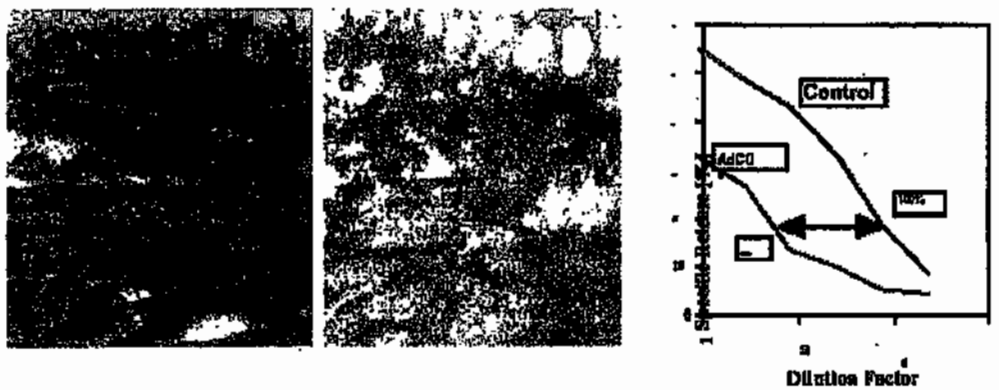
: Newborn C57BL/6 hearts were infected with 10^9 (red), $5x10^7$ (green), 10^7 (blue) PFU AdCD8 or mock-infected (black). Thirtyfive days after transplantation into BALB/c recipients, the activity of the lytic activity of activated recipient T cells was tested on donor-type target cells.

Figure 16



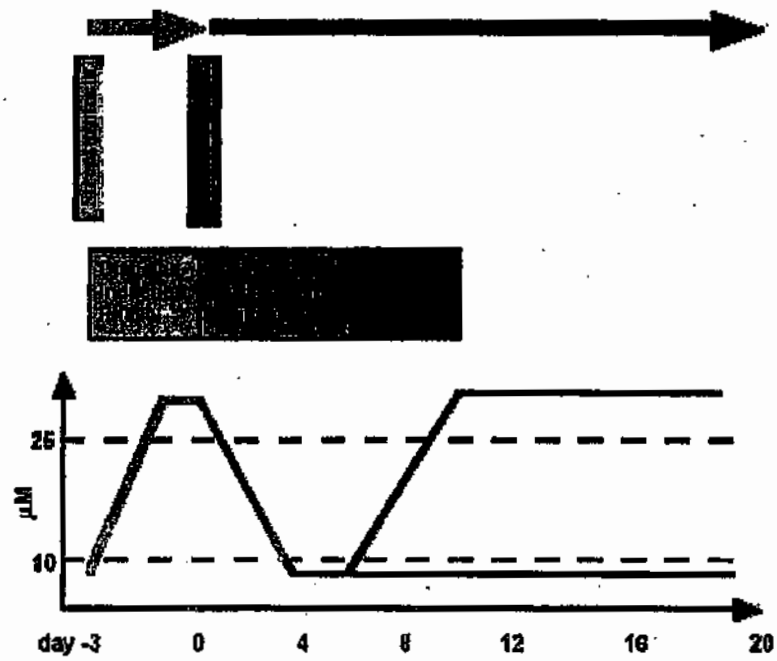
square circle
Newborn C57BL/6 hearts were infected with AdCD8 (red) or mock-infected (black). Thirtyeight days after transplantation into BALB/c recipients, the activity of the lytic activity of activated recipient T cells was tested on donor-type target cells.

Figure 17



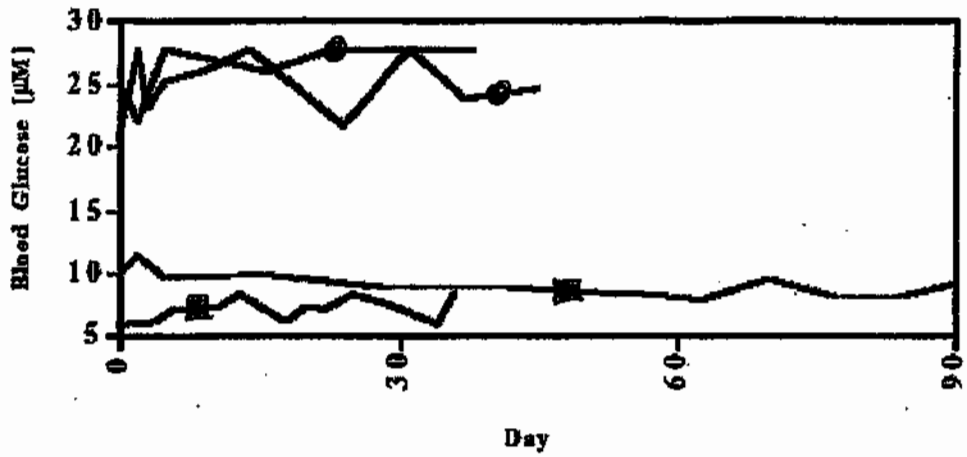
Animal #725-
1. C57BL/6 hearts infected with mAdCD8 (treated) or mock-infected (control) were transplanted into Balb/c mice. After 52 days, the animals were sacrificed and the tissue was stained (HE) and the lytic activity of recipient T cells was tested on donor-type target cells.

Figure 18



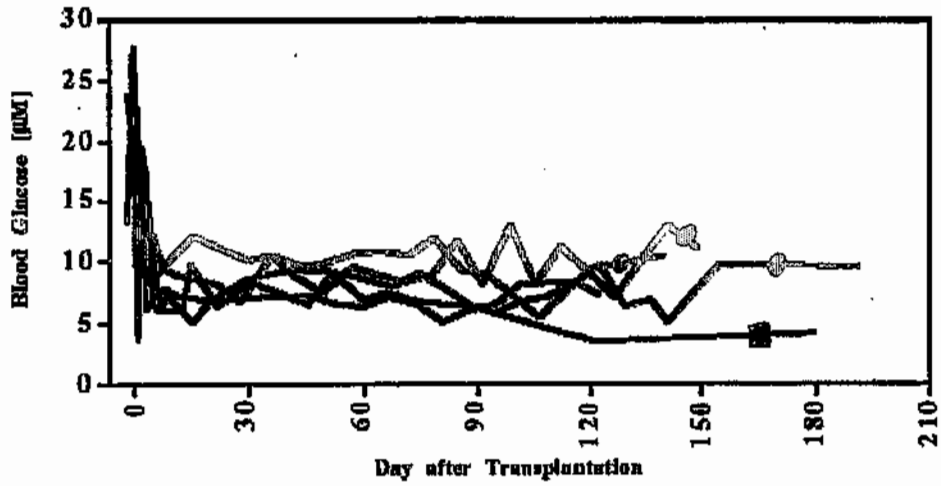
Pancreatic islet transplantation protocol.

Figure 19



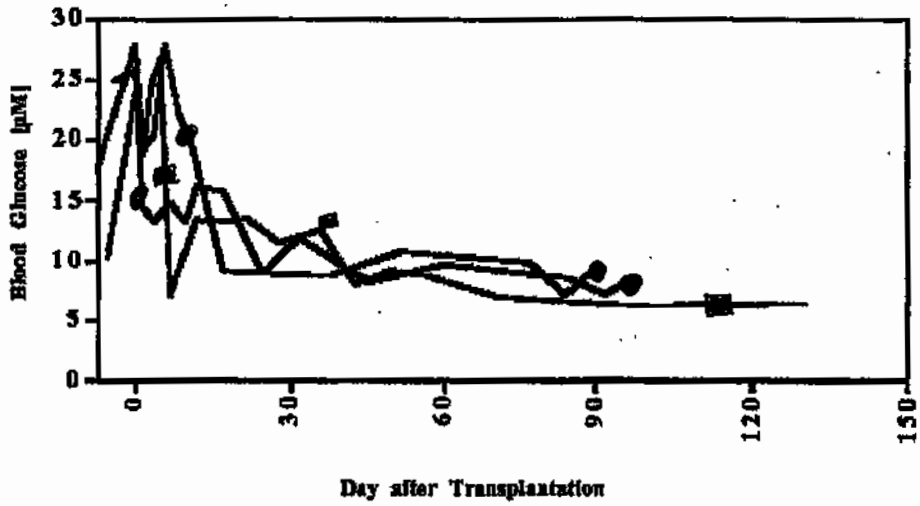
Blood glucose levels in normal (red) and Streptpzotocin-treated (blue) mice.
square Circle

Figure 20



square circle
Syngenesic pancreatic islet transplants performed in Balb/c (red) and in C57BL/6 (blue) mice.

Figure 21



Transplantation of syngenaic mAdCD8-transduced pancreactic islets harvested from Balb/c (blue) or C57BL/6 (red) mice.
circle square

Figure 22

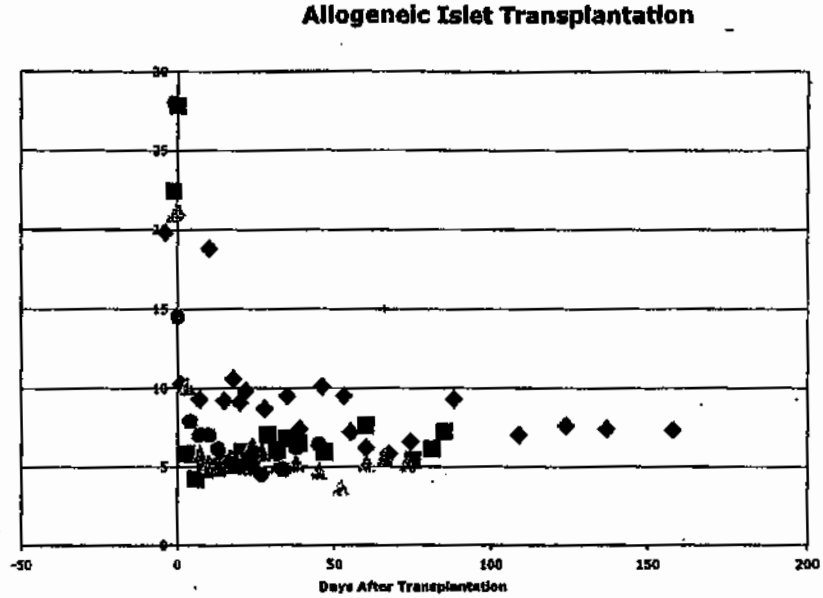

Allogeneic Islet Transplantation
30
25
20
15
10
5
0
-50
0
50
100
150
200
Days After Transplantation

Figure 23

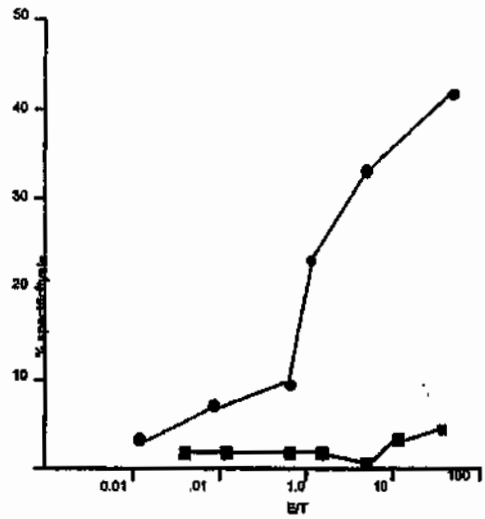
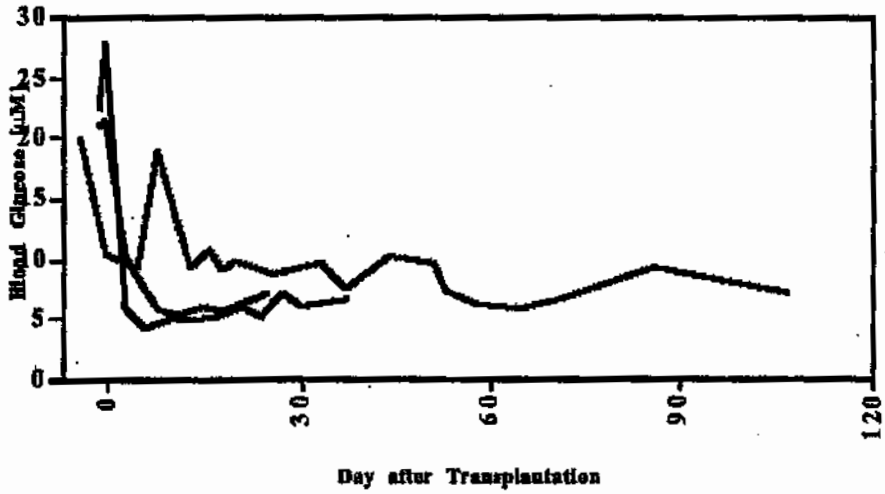


Figure 24



[illegible]: mAdCD8-transduced C57BL/6 pancreatic islets were transplanted into Balb/c recipient mice.

Figure 25