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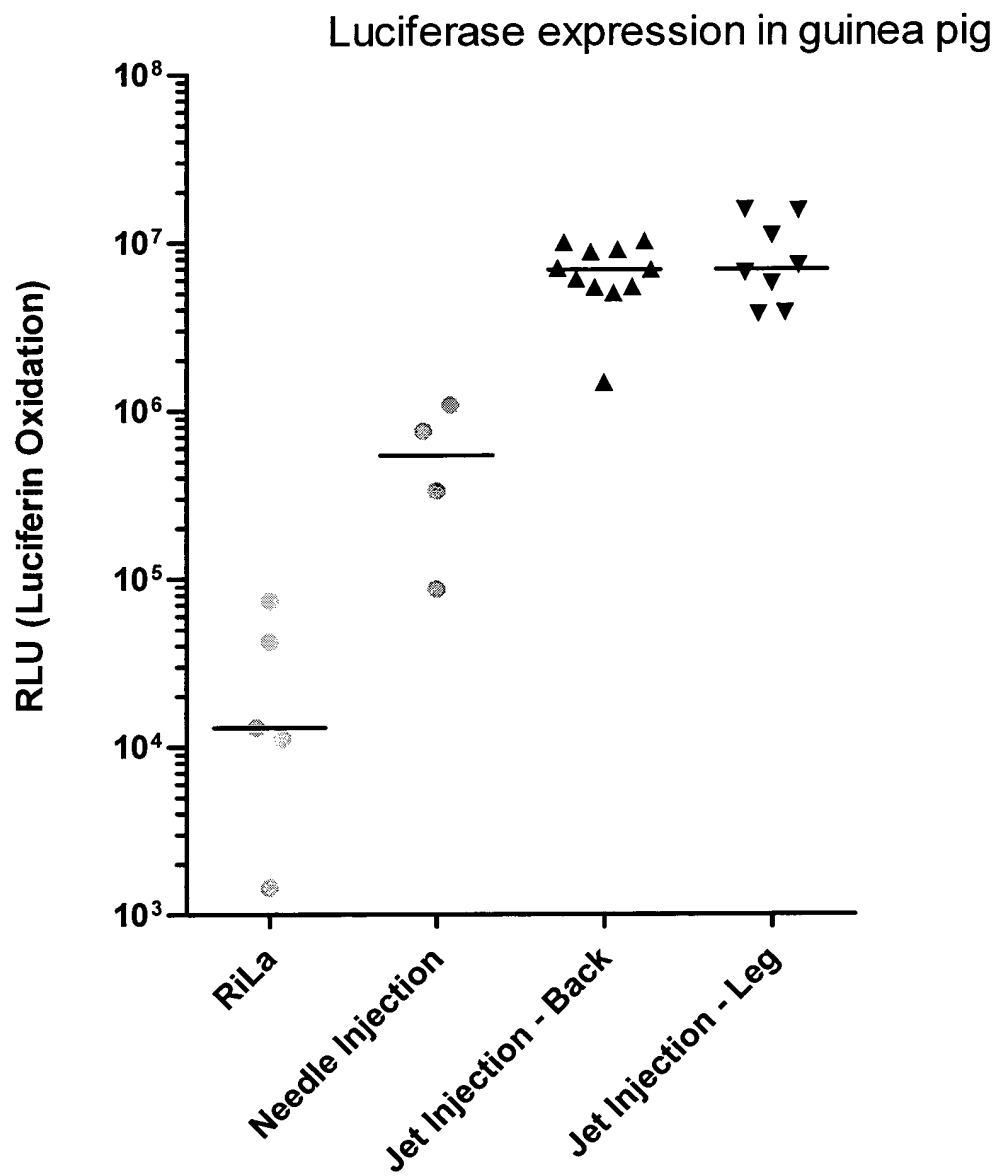


Fig. 1

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Luciferase expression in guinea pigs

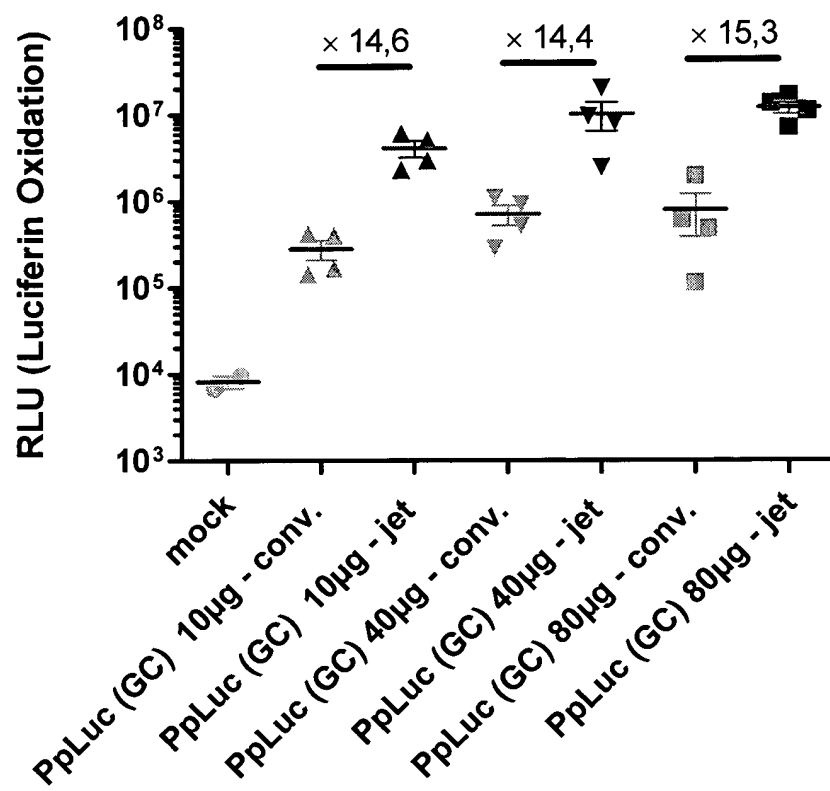


Fig. 2

Luciferase expression guinea pig

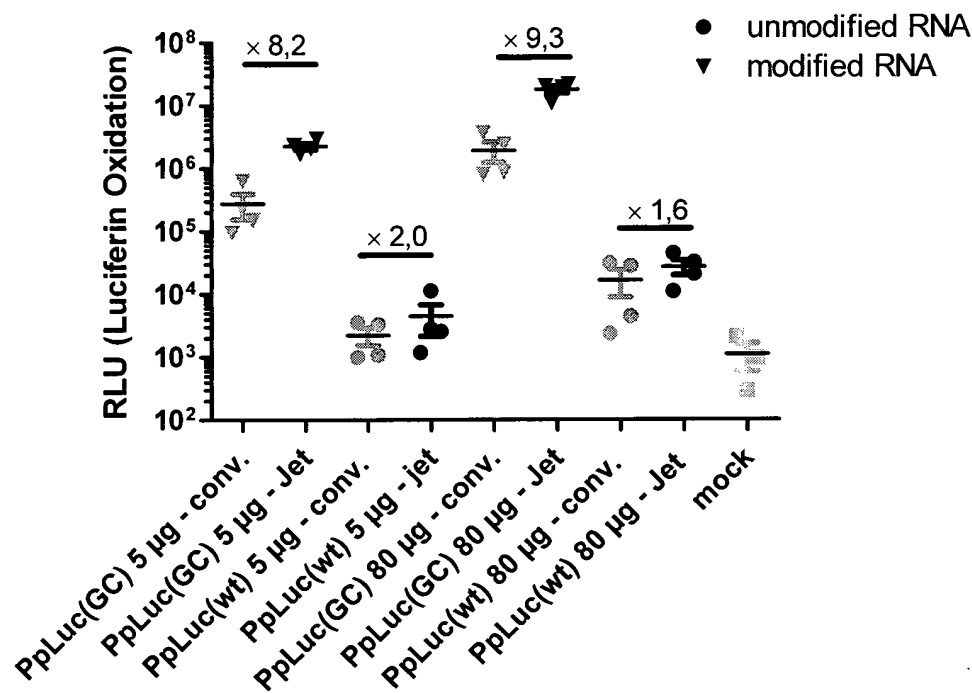


Fig. 3

R1265: PpLuc(GC) – muag – A64 - C30 – histoneSL

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCC
GGUGCCGGGCACGAUCGCCUUCACCGACGCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUCUUGCCGGUGCUGGGCGC
CCUCUUCUUCGCGUGGGCCGUCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAAGAAGCUGCCCAUCAUCCAGAAGAUAUCAUCAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCCCGGG
CUUCAACGAGUACGACUUCGUCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCCGGACAC
CGCCAUCCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAGGAGCUGUUCUGCG
GAGCCUGCAGGACUACAAGAUCCAGAGCGCGCUGCUCGUGCCGACCCUGUUCAGCUUCU
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGCGCGG
GGGCGCCCCGUGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCCGG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUCACCCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACACGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUCAUGAGCGGCUACGUGAACAAACCCGGAGGCCACCAACGCCCUCUUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUCUUCGU
CGACCGGCUGAAGUCGUGAUCAGUACAAGGGCUACACGAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCGCGUGGGCCGGGCGUGCCGGACGA
CGACGCGGCGAGCUGCCGGCCGCGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUUCGUGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCCGAAGGGCCUGACCGGGAAGCUCGACGCCCCGGAAGAU
CCGCGAGAUCUGAUCAGGCCAAGAAGGGCGGCAAGAUCCCGUGUAAGACUAGUUAUA
AGACUGACUAGCCCAGUGGGCCUCCCAACGGGCCCUCUCCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGC
CACCAGAAU

Fig. 4

R2652: PpLuc(wt) – A30

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUAUCGAGGUGAACAUACGUACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAU
CACAGAAUCGUCGUAUGCAGUGAAAACUCUCUCAAUUCUUUAUGCCGGUGUUGGGCGCG
UUAUUUAUCGGAGUUGCAGUUGCGCCCGCGAACGACAUUUAUAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAAA
AUUUUGAACGUGCAAAAAAAAUUACCAUAUAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACACGUUCGUCACAUCUCAUCUACCUCGCGU
UUUAAUGAAUACGAUUUUGUACCAGAGUCCUUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUACCUAAGGGUGUGGCCCUUCCGCAUAGAACUGCC
UGCGUCAGAUUCUCGCAUGCCAGAGAUCCUAUUUUUGGCAAUCAAAUCAUUCGGGAUACU
GCGAUUUUAAGUGUUGUUCCAUUCCAUCACGGUUUUGGAAUGUUUACUACACUCGGAUUA
UUGAUUUGUGGAUUUCGAGUCGUCUUAUGUAUAGAUUUGAAGAAGAGCUGUUUUUACGA
UCCCUUCAGGAUUACAAAUUCAAAGUGCGUUGCUAGUACCAACCCUUAUUUUAUUCUUC
GCCAAAAGCACUCUGAUUGACAAAUACGAUUUAUCUAAUUUACAGAAAUUGCUUCUGGG
GGCGCACCCUCUUUCGAAAGAAGUCGGGGAAGCGGUUGCAAACGCUUCCAUCUUCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAAACCGGGCGCGGUCGGUAAAGUUGUCCAUUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAAACGCUGGGCGUUAUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGGUUAUGUAAACAUAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUCUAUAGUU
GACCGCUUGAAGUCUUUAAUUAUUAACAAGGAUAUCAGGUGGCCCCCGCUGAAUUGGAA
UCGAUAUUGUUACAACACCCCAACAUCUUCGACGCGGGCGUGGCAGGUCUUCGACGAU
GACGCCGGUGAACUUCGCGCCGCGUUGUUGUUUUGGAGCACGGAAAGACGAUGACGGAA
AAAGAGAUUCGUGGAUUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACCGGAAAACUCGACGCAAGAAAAUC
AGAGAGAUCCUCAUAAGGCCAAGAAGGGCGGAAAGUCCAAAUUGUGAGGACUAGUAGAU
CUAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 5

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R3454: PpLuc(wt) – A64

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUUCGAGGUGAACAUACGUACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAU
CACAGAAUCGUCGUAUGCAGUGAAAACUCUCUCAAUUCUUUAUGCCGGUGUUGGGCGCG
UUUUUAUCGGAGUUGCAGUUGCGCCCGCGAACGACAUUUUAUAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAA
AUUUUGAACGUGCAAAAAAAAUUACCAUAAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACACGUUCGUCACAUCUACUACCUCCCGGU
UUUAUGAAUACGAUUUUGUACCAGAGUCCUUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUACCUAAGGGUGUGGCCCUUCCGCAUAGAACUGCC
UGCGUCAGAUUCUCGCAUGCCAGAGAUCCAUUUUUUGGCAAUCAAAUCAUUCGGAUACU
GCGAUUUUAAGUGUUGUCCAUUCCAUCACGGUUUUGGAAUGUUUACUACACUCGGAUUA
UUGAUAUGUGGAUUUCGAGUCGUCUUAUGUAUAGAUUUGAAGAAGAGCUGUUUUUACGA
UCCCUUCAGGAUUACAAAUUCAAAGUGCGUUGCUAGUACCAACCCUAAUUUUAUUCUUC
GCCAAAAGCACUCUGAUUGACAAAUACGAUUUAUCUAAUUUACACGAAAUUGCUUCUGGG
GGCGCACCUUUUCGAAAGAAGUCGGGGAAGCGGUUGCAAAACGCUUCCAUCUUCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAACCGGGCGCGGUCGGUAAAGUUGUCCAUUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAAACGCUGGGCGUAAUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGGUUAUGUAAACAAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUAUAGUU
GACCGCUUGAAGUCUUUAUUAAUACAAAGGAUAUCAGGUGGCCCCCGCUGAAUUGGAA
UCGAUAUUGUUAACAACCCCCAACAUUCGACGCGGGCGUGGCAGGUCUUCCCGACGAU
GACGCCGGUGAACUUCGCCGCCGUUGUUGUUUUGGAGCACGGAAGACGAUGACGGAA
AAAGAGAUUCGUGGAUUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACGGAAAACUCGACGCAAGAAAAAUC
AGAGAGAUCCUCAUAAAAGGCCAAGAAGGGCGGAAAGUCCAAAUUGUGAGGACUAGUAGAU
CUAA
AAAAAA

Fig. 6

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R2462: PpLuc(GC)-A64-C30-HistoneSL

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCCU
GGUGCCCGGGCACGAUCGCCUUCACCGACGCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUCAUGCCGGUGCUGGGCGC
CCUCUUCAUCGGCGUGGCCGUCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAGAAGCUGCCCAUCAUCCAGAAGAUAUCAUCAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCCCGGG
CUUCAACGAGUACGACUUCGUCCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCCGGACAC
CGCCAUCCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAGGAGCUGUCCUGCG
GAGCCUGCAGGACUACAAGAUAUCAGAGCGCGCUGCUCGUGCCGACCCUGUUCAGCUUCU
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGACGCGG
GGGCGCCCCGCUGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCCGG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUCACCCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACCAGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUAUGAGCGGCUACGUGAACAACCCGGAGGCCACCAACGCCCUCAUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUCAUCGU
CGACCGGCUGAAGUCGUGAUAAGUACAAGGGCUACCAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGGCGUGGCCGGGCUGCCGGACGA
CGACCGCGGCGAGCUGCCGGCCGCGGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUUCGUGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCCGAAGGGCCUGACCGGGAAGCUCGACGCCCGGAAGAU
CCGCGAGAUCUGAUAAGGCCAAGAAGGGCGGCAAGAUCGCCGUGUAAGACUAGUAGAU
CUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGC
CACCAGAAUU

Fig. 7

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R1256: PpLuc(GC)-muag-A64-C30

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCC
GGUGCCGGGCACGAUCGCCUUCACCGACGCCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUCUUGCCGGUGCUGGGCGC
CCUCUUCUUCGCGGUGGCCGUGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCAGCCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAGAAGCUGCCCAUCAUCCAGAAGAUAUCAUCAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCCGGG
CUUCAACGAGUACGACUUCGUCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCGGACAC
CGCCAUCCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAGGAGCUGUUCUGCG
GAGCCUGCAGGACUACAAGAUCCAGAGCGCGCUGCUCGUGCCGACCCUGUUCAGCUUCU
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCAGCGG
GGGCGCCCCGUGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCCG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUCACCCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACCAGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUAUGAGCGGCUACGUGAACAACCCGAGGCCACCAACGCCCUCAUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUCUUCGU
CGACCGGCUGAAGUCGUGAUAAGUACAAGGGCUACCAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGCGUGGCCGGGCGGCCGGACGA
CGACGCCGGCGAGCUGCCGGCCGCGGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUCGUCGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCGAAGGGCCUGACCGGGAAGCUCGACGCCCGGAAGAU
CCGCGAGAUCUGAUAAGGCCAAGAAGGGCGGCAAGAUCGCCGUGUAAGACUAGUUAUA
AGACUGACUAGCCCGAUGGGCCUCCCAACGGGCCCUCUCCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCUUAG

Fig. 8

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R2393: PpLuc(nat)-muag-A64-C30-HistoneSL

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCGCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUUUCGAGGUGAACAUACGUACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAU
CACAGAAUCGUCGUAUGCAGUGAAAAACUCUCUCAAUUCUUUAUGCCGGUGUUGGGCGCG
UUUUUAUCGGAGUUGCAGUUGCGCCCGCGAACGACAUUUUAUAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAAA
AUUUUGAACGUGCAAAAAAAAUUACCAUAAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACACGUUCGUCACAUCUCAUCUACCUCCCGGU
UUUAAUGAAUACGAUUUUGUACCAGAGUCCUUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUAACUAAGGGUGUGGGCCUUCGCAUAGAACUGCC
UGCGUCAGAUUCUCGCAUGCCAGAGAUCCUAAUUUUUGGCAAUCAAAUCAUCCGGAUACU
GCGAUUUUAAGUGUUGUCCAUAUCCAUCACGGUUUUGGAAUGUUUACUACACUCGGAUUAU
UUGAUUUGUGGAUUUCGAGUCGUCUAAUGUAUAGAUUUGAAGAAGAGCUGUUUUUACGA
UCCCUUCAGGAUUACAAAUUCAAAGUGCGUUGCUAGUACCAACCCUAAUUUUCAUUCUUC
GCCAAAAGCACUCUGAUUGACAAAUACGAUUUAUCUAAUUUACACGAAAUUGCUCUGGG
GGCGCACCUCUUUCGAAAGAAGUCGGGGAAGCGGUUGCAAAACGCUUCCAUCUCCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAAACCGGGCGCGGUCGGUAAAAGUUGUCCAUUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAAACGCUGGGCGUUAAUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGGUUAUGUAAACAAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUAUAGUU
GACCGCUUGAAGUCUUUAAUUAUAAUACAAAGGAUAUCAGGUGGCCCCCGUGAAUUGGAA
UCGAUAUUGUUACAACACCCCAACAUCUUCGACGCGGGCGUGGCAGGUCUCCCGACGAU
GACGCCGUGAACUUCGCGCCGCGUUGUUGUUUUGGAGCACGGAAAGACGAUGACGGAA
AAAGAGAUUCGUGGAUUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACGGAAAACUCGACGCAAGAAAAAUC
AGAGAGAUCCUCAUAAAGGCCAAGAAGGGCGGAAAGUCCAAAUUGUGAGGACUAGUUUAU
AGACUGACUAGCCCGAUGGGCCUCCCAACGGGCCCUCUCCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUUCAGAGC
CACCAGAAUU

Fig. 9

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R2403: RAV-G(GC)-muag-A64-C30-histoneSL

GGGAGAAAGCUUACCAUGGUGCCCCAGGCCUGCUCUUCGUCCCGCUGCUGGUGUUCCCC
CUCUGCUUCGGCAAGUUCCTCAUCUACACCAUCCCCGACAAGCUGGGGCGUGGAGCCCC
AUCGACAUCCACCACCUUGUCCUGCCCCAACAAACCUCGUGGUCGAGGACGAGGGCUGCACC
AACCUGAGCGGGUUCUCCUACAUGGAGCUGAAGGUGGGCUACAUCAGCGCCAUAAGAUG
AACGGGUUCACGUGCACCGGCGUGGUCACCGAGGCGGAGACCUACACGAACUUCGUGGGC
UACGUGACCACCACCUUCAAGCGGAAGCACUUCGCCCCACGCCGGACGCCUGCCGGGCC
GCCUACAACUGGAAGAUGGCCGGGGACCCCCGCUACGAGGAGUCCCUCCACAACCCCUAC
CCCGACUACCACUGGCUGCGGACCGUCAAGACCACCAAGGAGAGCCUGGUGAUAUCUCC
CCGAGCGUGGCGGACCUCGACCCCUACGACCGCUCCUGCACAGCCGGGUCUCCCCGGC
GGGAACUGCUCCGGCGUGGCCGUGAGCUCCACGUACUGCAGCACCAACCACGACUACACC
AUCUGGAUGCCCGAGAACCCGCGCCUGGGGAUGUCCUGCGACAUCUUCACCAACAGCCGG
GGCAAGCGCGCCUCCAAGGGCAGCGAGACGUGCGGGUUCGUCGACGAGCGGGGCCUCUAC
AAGUCCUGAAGGGGGCCUGCAAGCUGAAGCUCUGCGGCGUGCUGGGCCUGCGCCUCAUG
GACGGGACCUGGGUGGCGAUGCAGACCAGCAACGAGACCAAGUGGUGCCCCCGGCCAG
CUGGUAACCUUGCACGACUUCGGAGCGACGAGAUCGAGCACCUCGUGGUGGAGGAGCUG
GUCAAGAAGCGCGAGGAGUGCCUGGACGCCUCGAGUCCAUAUGACGACCAAGAGCGUG
UCCUUCGGCGCCUGAGCCACCUCGGAAGCUCGUGCCCGGGUUCGGCAAGGCCUACACC
AUCUUAACAAGACCCUGAUGGAGGCCGACGCCACUACAAGUCCGUCCGCACGUGGAAC
GAGAUCAUCCCGAGCAAGGGGUGCCUGCGGGUGGGCGGCCGUGCCACCCCCACGUCAAC
GGGGUGUUCUUAACGGCAUCAUCCUCGGGCCCCGACGGCAACGUGCUGAUCCCCGAGAUG
CAGUCCAGCCUGCUCCAGCAGCACAUGGAGCUGCUGGUCUCCAGCGUGAUCCCGCUAUG
CACCCCCUGGCGGACCCUCCACCGUGUUAAGAACGGGGACGAGGCCGAGGACUUCGUC
GAGGUGCACCUGCCCGACGUGCACGAGCGGAUCAGCGGCGUGACCUCGGCCUGCCGAAC
UGGGGGAAGUACGUGCUGCUCUCCGCCGGCGCCUGACCGCCCUGAUGCUGAUAUCUUC
CUAUGACCUGCUGGCGCCGGGUGAACCGGAGCGAGCCCACGCAGCACAACCUGC CGGG
ACCGGCCGGGAGGUCUCCGUGACCCCGCAGAGCGGGAAGAUCAUCUCCAGCUGGGAGUCC
UACAAGAGCGGCGGCGAGACCGGGCUGUGAGGACUAGUUUAUAAGACUGACUAGCCCGAUG
GGCCUCCCAACGGGCCCUCUCCCCUCCUUGCACCGAGAUUAAUAAAAAAAAAAAAAAAAA
AAAUGCAUCCCCCCC
CCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUUCAGAGCCACCAGAAUU

Fig. 10

11/17

R3513: EPO (wt)-A30

GGGAGAAAGCUUACCAUGGGGGUGCCCGAACGUCCCACCCUGCUGCUUUUACUCUCCUUG
CUACUGAUUCCUCUGGGCCUCCAGUCCUCUGUGCUCCCCACGCCUCAUCUGCGACAGU
CGAGUUCUGGAGAGGUACAUCUUAGAGGCCAAGGAGGCAGAAAAUGUCACGAUGGGUUGU
GCAGAAGGUCCAGACUGAGUGAAAAUAUUACAGUCCCAGAUACCAAAGUCAACUUCUAU
GCUUGGAAAAGAAUGGAGGUGGAAGAACAGGCCAUAGAAGUUUGGCAAGGCCUGUCCCUG
CUCUCAGAAGCCAUCCUGCAGGCCCAGGCCUGCUAGCCAAUUCCUCCAGCCACCAGAG
ACCCUUCAGCUUCAUAUAGACAAAGCCAUCAGUGGUCUACGUAGCCUCACUUCACUGCUU
CGGGUACUGGGAGCUCAGAAGGAAUUGAUGUCGCCUCCAGAUACCACCCACCUGCUCCA
CUCCGAACACUCACAGUGGAUACUUUCUGCAAGCUCUCCGGGUCUACGCCAACUCCUC
CGGGGGAAACUGAAGCUGUACACGGGAGAGGUCUGCAGGAGAGGGGACAGGUGACCACUA
GUAGAUCUAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 11

12/17

R3135: HSD17B4-EPO (GC)-albumin7-A64-C30-histoneSL

GGGUCCCGCAGUCGGCGUCCAGCGGCUCUGCUUGUUCGUGUGUGUGUCGUUGCAGGCCUU
AUUCAAGCUUACCAUGGGCGUGCCCGAGCGGCCGACCCUGCUCCUGCUGCUCAGCCUGCU
GCUCAUCCCCCUGGGGCGUGCCCGUCCUCUGCGCCCCCCCCGCGCCUGAUCUGCGACUCCCG
GGUGCUGGAGCGCUACAUCUCGAGGCCAAGGAGGCGGAGAACGUGACCAUGGGGCGCGC
CGAGGGGGCCCCGGCUGAGCGAGAACAUACGCUCCCGACACCAAGGUGAACUUCUACGC
CUGGAAGCGCAUGGAGGUGGAGGAGCAGGCCAUCGAGGUCUGGCAGGGCCUGUCCCUCU
GAGCGAGGCCAUCCUGCAGGCGCAGGCCUCCUGGCCAACUCCAGCCAGCCCCGGAGAC
ACUGCAGCUCCACAUCGACAAGGCCAUCUCCGGGCGUGCGGAGCCUGACCUCUCCUGCG
CGUGCUGGGCGCGCAGAAGGAGCUCAUGAGCCCGCCGACACGACCCCCCGGCCCGCU
GCGGACCCUGACCGUGGACACGUUCUGCAAGCUCUCCGCGUCUACGCCAACUCCUGCG
GGGCAAGCUGAAGCUCUACACCGGGGAGGUGUGCCGCCGGGGCGACCGCUGACCACUAGU
GCAUCACAUUUAAAAGCAUCUCAGCCUACCAUGAGAAUAAGAGAAAGAAAAUGAAGAUCA
AUAGCUUAUUCUUCUUCUUUUUCUUUUUCGUUGGUGUAAAGCCAACACCCUGUCUAAAAA
CAUAAAUUUCUUUAAUCAUUUUGCCUCUUUUCUCUGUGCUUCAAUUAAUAAAAAUGGAA
AGAACCUAGAUCUAAA
AAAAAAAAAAAAAAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCU
CUUUUCAGAGCCACCAGAAUU

Fig. 12

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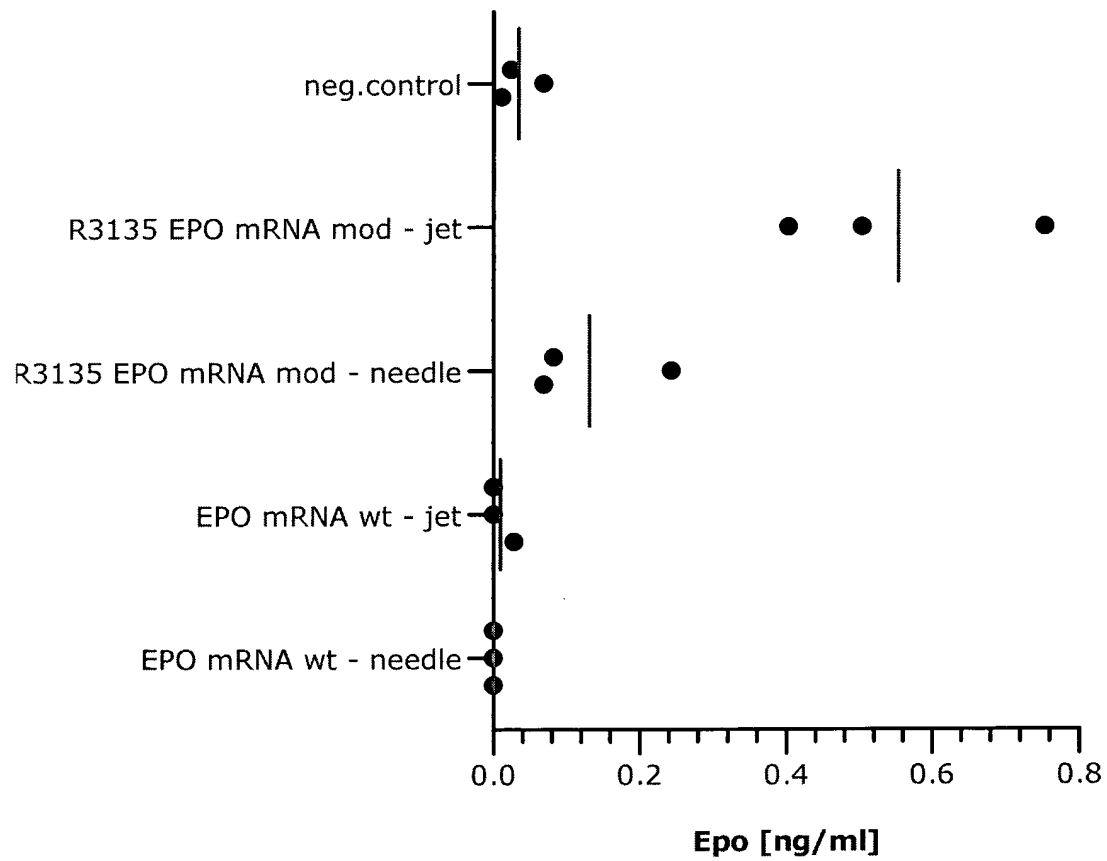
Epo from mRNA (guinea pig)

Fig. 13

14/17

RSV-F long (GC) R2510

GGGGCGCUGCCUACGGAGGUGGCAGCCAUCUCCUUCUCGGCAUCAAGCUUACCAUGGAGC
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Fig. 14

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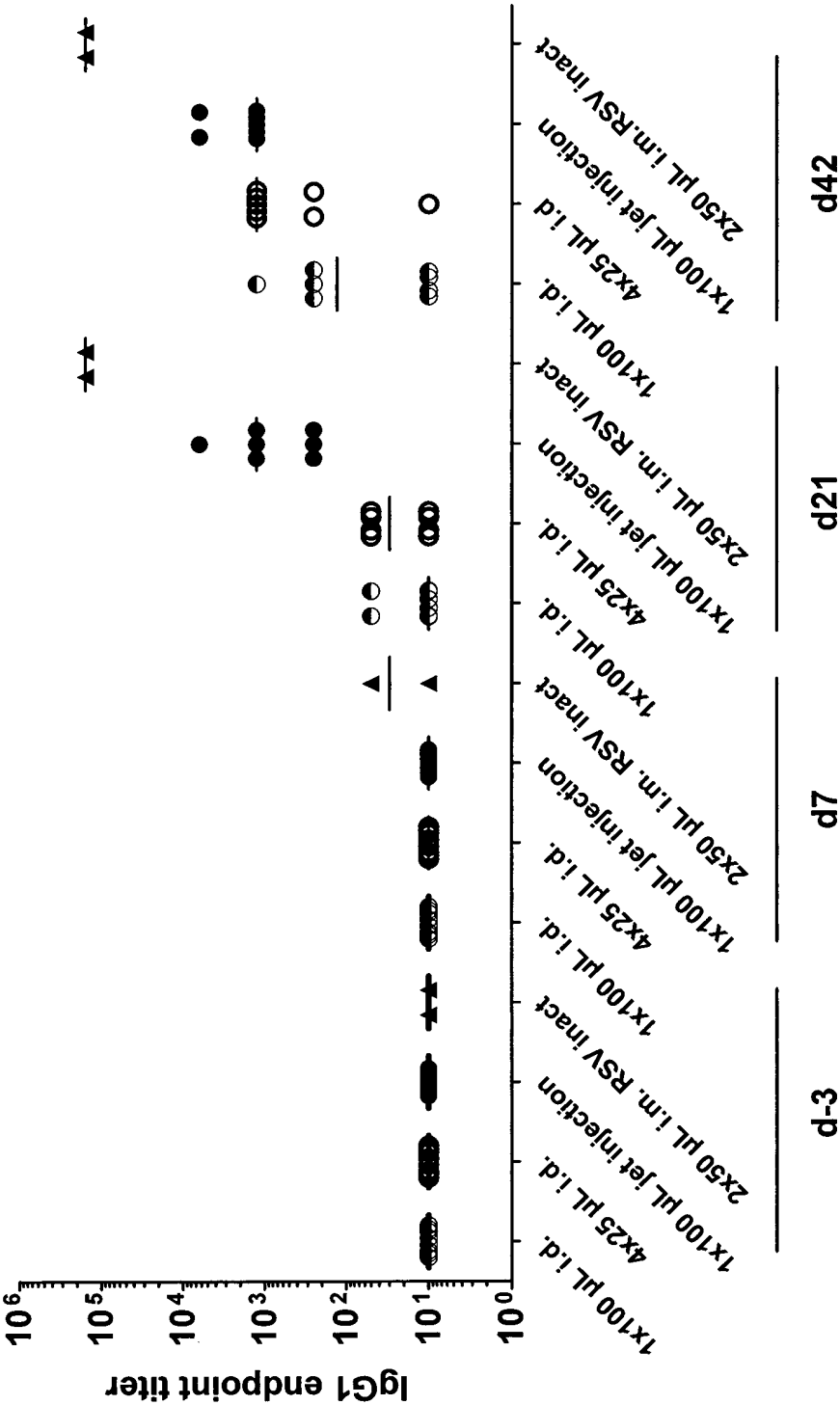


Fig. 15 A

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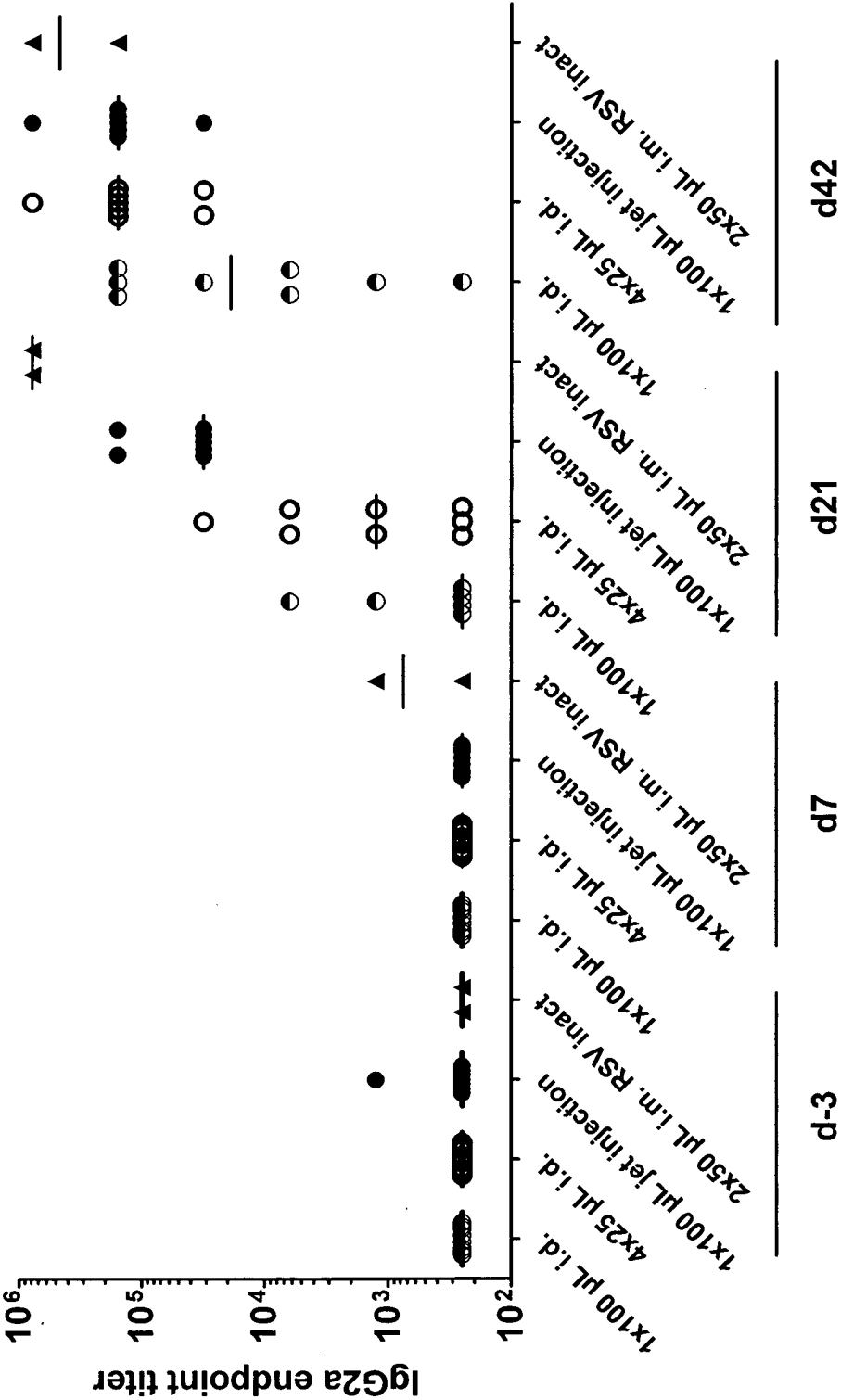


Fig. 15 B

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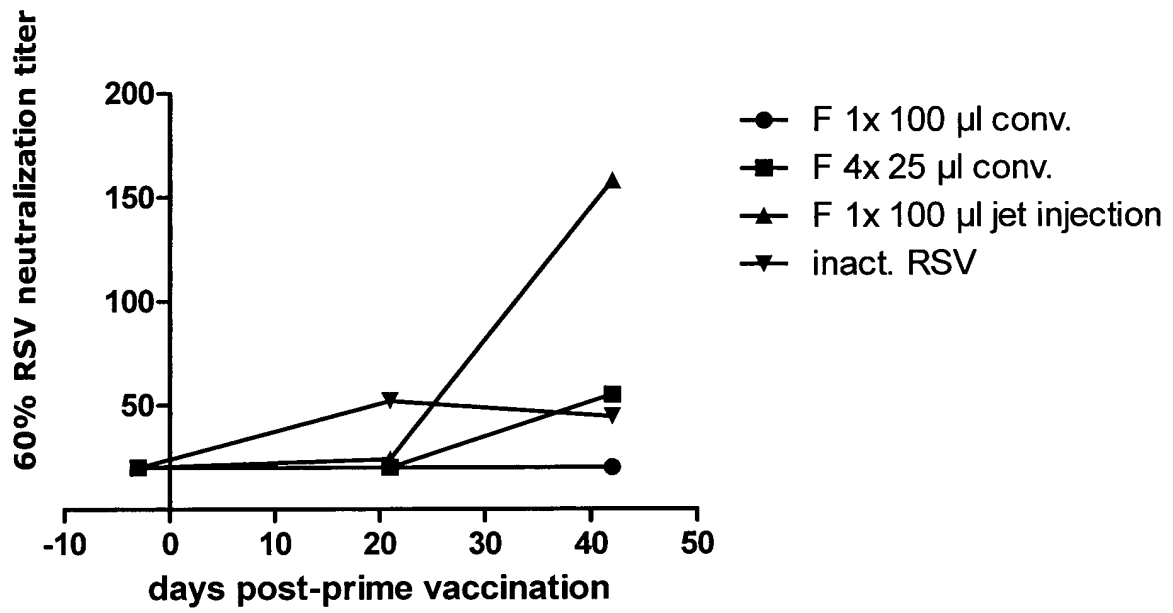


Fig. 16