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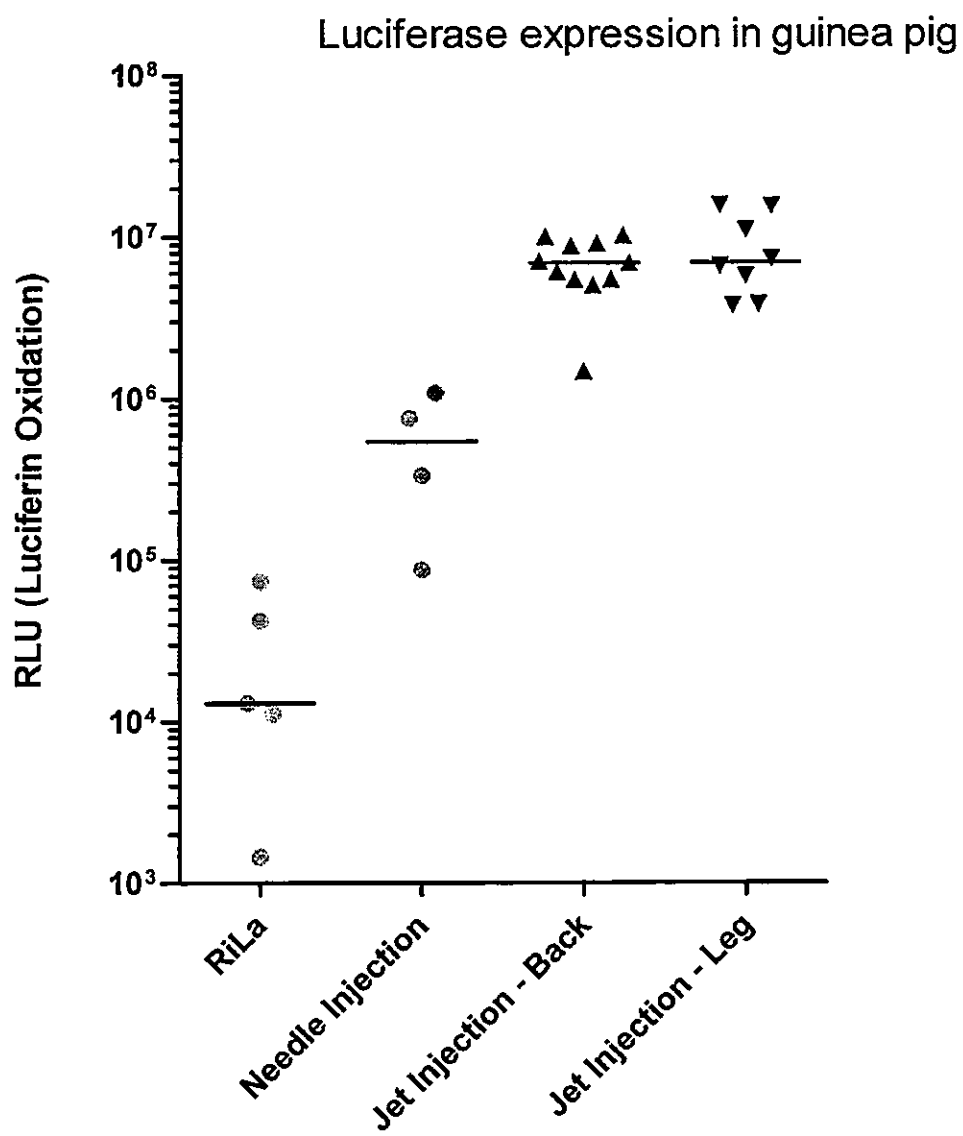


Fig. 1

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Luciferase expression in guinea pigs

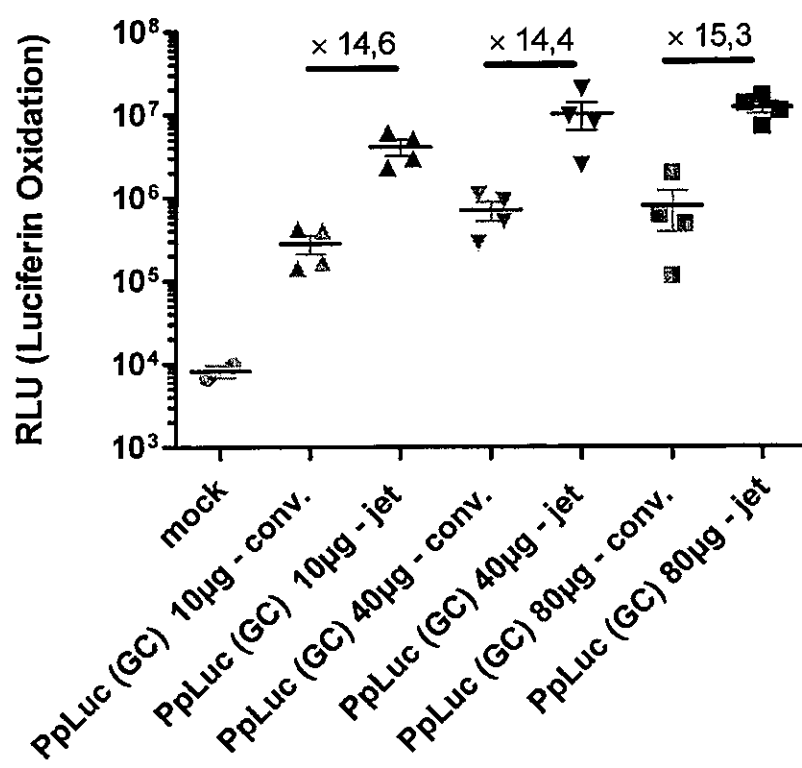


Fig. 2

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Luciferase expression guinea pig

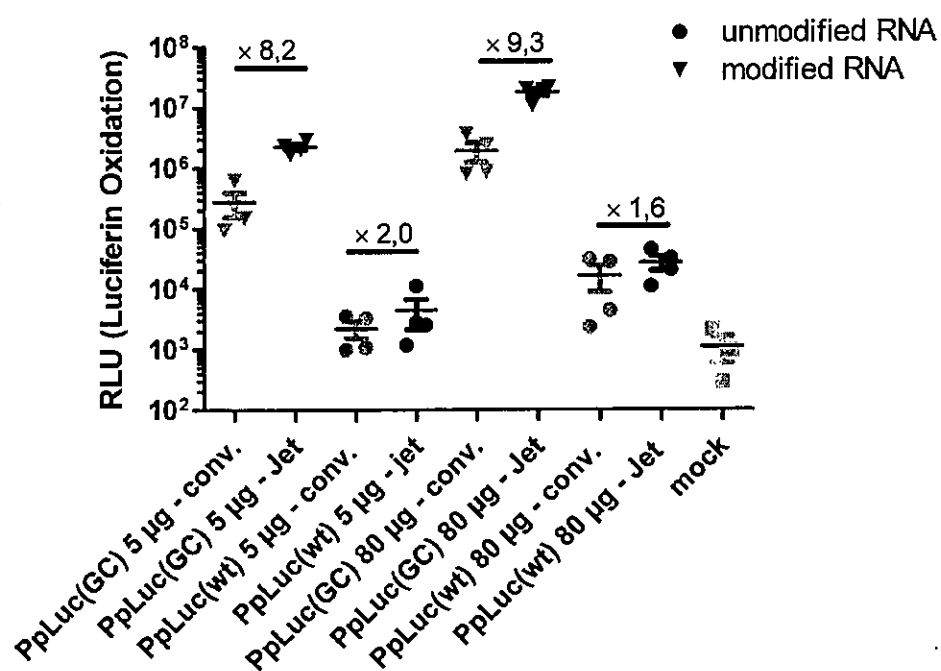


Fig. 3

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

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCC
GGUGCCGGGCACGAUCGCCUUCACCGACGCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUAUGCCGGUGCUGGGCGC
CCUCUUAUCGGCGUGGCCGUCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAGAAGCUGCCCAUCAUCCAGAAGAUAUCAUCAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCGCGG
CUUCAACGAGUACGACUUCGUCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCCGGACAC
CGCCAUCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAGGAGCUGUUCUGCG
GAGCCUGCAGGACUACAAGAUAUCCAGAGCGCGCUGCUCGUGCCGACCCUGUUCAGCUUCU
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGCGAGCGG
GGGCGCCCCGCUAGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCGG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUCAACCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACCAGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUCAUGAGCGGCUACGUGAACAACCCGGAGGCCACCAACGCCCUCAUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUAUCGU
CGACCGGCUGAAGUCGCUGAUCAAGUACAAGGGCUACCAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGCGUGGGCCGGGCGGCCGACGA
CGACGCCGGCGAGCUGCCGGCCGCGGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUUCGUGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCCGAAGGGCCUGACCGGGAAGCUCGACGCCCGGAAGAU
CCGCGAGAUCCUGAUCAAGGCCAAGAAGGGCGGCAAGAUCGCCGUGUAAGACUAGUUUA
AGACUGACUAGCCCGAUGGGCCUCCCAACGGGGCCUCCUCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGC
CACCAGAAUU

Fig. 4

R2652: PpLuc(wt) – A30

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUUUCGAGGUGAACAUACGUACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAAU
CACAGAAUCGUCGUAUGCAGUGAAAACUCUCUCAAUUCUUUAUGCCGGUGUUGGGCGCG
UUAUUUAUCGGAGUUGCAGUUGCGCCCGCGAACGACAUUUUAUAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAAA
AUUUUGAACGUGCAAAAAAAAUUACCAAUAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACACGUUCGUCACAUCUCAUCUACCUCCCGGU
UUUAAUGAAUACGAUUUUGUACCAGAGUCCUUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUACCUAAGGGUGUGGCCCUUCCGCAUAGAACUGCC
UGCGUCAGAUUUCGCAUGCCAGAGAUCCUAUUUUUGGCAAUCAAUCAUUCGGAUACU
GCGAUUUUAAGUGUUGUCCAUUCCAUCACGGUUUUGGAAUGUUUACUACACUCGGAUAU
UUGAUUUGUGGAUUUCGAGUCGUCUUAUUGUAUAGAUUUGAAGAAGAGCUGUUUUACGA
UCCCUUCAGGAUUAACAAAUUCAAGUGCGUUGCUAGUACCAACCCUAUUUUCAUUCUUC
GCCAAAAGCACUCUGAUUGACAAAUACGAUUUAUCUAAUUUACACGAAAUUGCUUCUGGG
GGCGCACCUCUUUCGAAAGAAGUCGGGGAAGCGGUUGCAAAACGCUUCCAUCUCCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAAACCGGGCGCGGUCGGUAAAGUUGUCCAUUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAACGCGUGGGCGUUAUUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGGUUAUGUAAACAUAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUCAUAGUU
GACCGCUUGAAGUCUUUAAUUAUUUACAAAGGAUAUCAGGUGGCCCGCGUGAAUUGGAA
UCGAUAUUGUUAACAACACCCCAACAUCUUCGACGCGGGCGUGGCAGGUCUCCCCGACGAU
GACGCCGGUGAACUCCCCGCCGCCGUUGUUGUUUUGGAGCACGGAAGACGAUGACGGAA
AAAGAGAUUCGUGGAUUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACCGGAAAACUCGACGCAAGAAAAAUC
AGAGAGAUCCUCAUAAAGGCCAAGAAGGGCGGAAAGUCCAAAUUGUGAGGACUAGUAGAU
CUAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 5

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R3454: PpLuc(wt) – A64

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUAUCGAGGUGAACAUACGUAACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAU
CACAGAAUCGUCGUAUGCAGUGAAAACUCUCUUAUUAUUCUUUAUGCCGGUGUUGGGCGCG
UUAUUUAUCGGAGUUGCAGUUGCGCCCCGCGAACGACAUUUAUAAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAA
AUUUUGAACGUGCAAAAAAAUUAACCAUAAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACAGUUCGUCACAUCUCAUCUACCUCCCGGU
UUUAAUGAAUACGAUUUUGUACCAGAGUCCUUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUAACUAAGGGUGUGGCCCUUCCGCAUAGAACUGCC
UGCGUCAGAUUUCGCAUGCCAGAGAUCCUAAUUUUUGGCAUCAAUCAUUCGGAUACU
GCGAUUUUAAGUGUUGUCCAUCCAUCACGGUUUUGGAAUGUUUACUACACUCGGAUUAU
UUGAUUUGUGGAUUUCGAGUCGUCUUAUGUAUAGAUUUGAAGAAGAGCUGUUUUACGA
UCCCUUCAGGAUUACAAAUUCAAAGUGCGUUGCUAGUACCAACCCUAAUUUUCAUUCUUC
GCCAAAAGCACUCUGAUUGACAAAUACGAUUUAUCUAAUUUACACGAAAUUGCUCUGGG
GGCGCACCUUCUUCGAAAGAAGUCGGGGAAGCGGUUGCAAAACGCUUCCAUCUUCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAAACCGGGCGCGGUCGGUAAAGUUGUCCAUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAAACGUCGGGCGUUAUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGUUAUGUAAACAAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUAUAGUU
GACCGCUUGAAGUCUUUAAUUAUAAUACAAAGGAUAUCAGGUGGGCCCCCGUGAAUUGGAA
UCGAUAUUGUUACAACACCCCAACAUCUUCGACGCGGGCGUGGCAGGUUUCGGACGAU
GACGCCGGUGAACUUCGCGCCGCGUUGUUGUUUUGGAGCACGGAAAGACGAUGACGGAA
AAAGAGAUUCGGAUUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACCGGAAAACUCGACGCAAGAAAAAUC
AGAGAGAUCCUCAUAAAGGCCAAGAAGGGCGGAAAGUCCAAUUGUGAGGACUAGUAGAU
CUAA
AAAAAA

Fig. 6

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

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCCCU
GGUGCCGGGCACGAUCGCCUUCACCGACGCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUCUUGCCGGUGCUGGGCGC
CCUCUUCUUCGCGGUGGGCCGUGCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAGAAGCUGCCCAUCAUCCAGAAGAUCAUCAUUAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCCCGGG
CUUCAACGAGUACGACUUCGUCCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCCGGACAC
CGCCAUCCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAGGAGCUGUUCUGCG
GAGCCUGCAGGACUACAAGAUCAGAGCGCGCUGCUCGUGCCGACCCUGUUCAGCUUCU
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGACGCG
GGGCGCCCCGCUGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCCGG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUAACCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACAGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUCAUGAGCGGCUACGUGAACAAACCGGAGGCCACCAACGCCCUCAUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUCUUCGU
CGACCGGCGUGAAGUCGUGAUAAGUACAAGGGCUACCAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGGCGUGGCCGGGCUGCCGGACGA
CGACGCCGGGAGCUGCCGGCCGCGGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUUCGUCGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCCGAAGGGCCUGACCGGGAAGCUCGACGCCCGGAAGAU
CCGCGAGAUCCUGAUAAGGCCAAGAAGGGCGGCAAGAUCGCCGUGUAAGACUAGUAGAU
CUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGC
CACCAGAAUU

Fig. 7

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

GGGAGAAAGCUUGAGGAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCGCCCUUCUA
CCCGCUGGAGGACGGGACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCCCU
GGUGCCGGGCACGAUCGCCUUCACCGACGCCACAUCGAGGUCGACAUCACCUACGCGGA
GUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUACGGCCUGAACACCAA
CCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUCUUGCCGGUGCUGGGCGC
CCUCUUCUUCGCGGUGGCCGUGCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCU
GAACAGCAUGGGGAUCAGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAA
GAUCCUGAACGUGCAGAAGAAGCUGCCCAUCAUCCAGAAGAUAUCAUCAUGGACAGCAA
GACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGCCACCUCGCCGGG
CUUCAACGAGUACGACUUCGUCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCCUGAU
CAUGAACAGCAGCGGCAGCACCGGCCUGCCGAAGGGGGUGGCCUGCCGCACCGGACCGC
CUGCGUGCGCUUCUCGCACGCCCGGGACCCCAUCUUCGGCAACCAGAUCAUCCGGACAC
CGCCAUCCUGAGCGUGGUGCCGUUCCACCACGGCUUCGGCAUGUUCACGACCCUGGGCUA
CCUCAUCUGCGGCUUCCGGGUGGUGCCUGAUGUACCGGUUCGAGGAGGAGCUGUUCUGCG
GAGCCUGCAGGACUACAAGAUCCAGAGCGCGCUGCUGCGCCGACCCUGUUCAGCUUCUUC
CGCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGACGCGG
GGGCGCCCCGUGAGCAAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUCGCCGG
CAUCCGCCAGGGCUACGGCCUGACCGAGACCACGAGCGCGAUCCUGAUCACCCCCGAGGG
GGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAGGCCAAGGUGGUGGA
CCUGGACACCGGCAAGACCCUGGGCGUGAACCAGCGGGGCGAGCUGUGCGUGCGGGGGCC
GAUGAUCAUGAGCGGCUACGUGAACAACCCGGAGGCCACCAACGCCCUCAUCGACAAGGA
CGGCUGGCUGCACAGCGGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUCUUCUUCU
CGACCGGCUGAAGUCGCUCAAGUACAAGGGCUACCAGGUGGCGCCGGCCGAGCUGGA
GAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGCGUGGCCGGGCGUGCCGGACGA
CGACGCCGGCGAGCUGCCGGCCGCGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGA
GAAGGAGAUUCGUCGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGG
CGUGGUGUUCGUGGACGAGGUCCGAAGGGCCUGACCGGGAAGCUCGACGCCCGGAAGAU
CCGCGAGAUCCUGAUCAAGGCCAAGAAGGGCGGCAAGAUCCCGUGUAAGACUAGUUUA
AGACUGACUAGCCCCGAUGGGCCUCCCAACGGGCCCUCCUCCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCUAG

Fig. 8

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

GGGAGAAAGCUUACCAUGGAAGACGCCAAAAACAUAAGAAAGGCCCGGCCCAUUCUAU
CCUUUAGAGGAUGGAACCGCUGGAGAGCAACUGCAUAAGGCUAUGAAGAGAUACGCCUCG
GUUCCUGGAACAAUUGCUUUUACAGAUGCACAUUUCGAGGUGAACAUACGUACGCGGAA
UACUUCGAAAUGUCCGUUCGGUUGGCAGAAGCUAUGAAACGAUAUGGGCUGAAUACAAU
CACAGAAUCGUUCGAUGCAGUGAAAACUCUCUUCAAUUCUUUAUGCCGGUGUUGGGCGCG
UUUUUAUCGGAGUUGCAGUUGCGCCCGCGAACGACAUUUUAUAUGAACGUGAAUUGCUC
AACAGUAUGAACAUUUCGCAGCCUACCGUAGUGUUUGUUUCCAAAAAGGGGUUGCAAAAA
AUUUUGAACGUGCAAAAAAAUUAACCAUAAUCCAGAAAAUUAUUAUCAUGGAUUCUAAA
ACGGAUUACCAGGGAUUUCAGUCGAUGUACACGUUCGUCACAUCUCAUCUACCUCCCGGU
UUUAUGAAUACGAUUUUGUACCAGAGUCCUUGAUCGUGACAAAACAAUUGCACUGAUA
AUGAAUAGCUCUGGAUCUACUGGGUUACCUAAGGGUGUGGCCCUUCCGCAUAGAACUGCC
UGCGUCAGAUUUCGCAUGCCAGAGAUCCUUAUUUUUGGCAAUCAAUCAUUCGGGAUACU
GCGAUUUUAAGUGUUGUCCAUUCACACGGUUUUGGAAUGUUUACUACACUCGGAUAU
UUGAUUUGUGGAUUUCGAGUCGUUUAAUGUAUAGAUUUGAAGAAGAGCUGUUUUACGA
UCCCUUCAGGAUUACAAAUUCAAAGUGCGUUGCUAGUACCAACCCUAAUUUCAUUCUUC
GCCAAAAGCACUCUGAUUGACAAUACGAUUUAUCUAAUUUACACGAAAUUGCUCUGGG
GGCGCACCUCUUUCGAAAGAAGUCGGGGAAGCGGUUGCAAAACGCUUCCAUCUUCAGGG
AUACGACAAGGAUAUGGGCUCACUGAGACUACAUCAGCUAUUCUGAUUACACCCGAGGGG
GAUGAUAAACCGGGCGCGGUCGGUAAAGUUGUCCAUUUUUGAAGCGAAGGUUGUGGAU
CUGGAUACCGGGAAACGCUUGGGCGUUAUUCAGAGAGGCGAAUUAUGUGUCAGAGGACCU
AUGAUUAUGUCCGGUUAUGUAAACAAUCCGGAAGCGACCAACGCCUUGAUUGACAAGGAU
GGAUGGCUACAUUCUGGAGACAUAGCUUACUGGGACGAAGACGAACACUUCUUCUAGUU
GACCGCUUGAAGUCUUUAAUUAUAAUACAAAGGAUAUCAGGUGGCCCCCGCUGAAUUGGAA
UCGAUAUUGUUAACAACACCCCAACAUCUUCGACGCGGGCGUGGCAGGUCUCCCCGACGAU
GACGCCGGUGAACUCCCCGCCCGGUUGUUGUUUGGAGCACGGAAGACGAUGACGGAA
AAAGAGAUCGUGGAUACGUCGCCAGUCAAGUAACAACCGCGAAAAAGUUGCGCGGAGGA
GUUGUGUUUGUGGACGAAGUACCGAAAGGUCUUAACGGAAACUCGACGCAAGAAAAUUC
AGAGAGAUCCUCAUAAAGGCCAAGAAGGGCGGAAAGUCCAAAUUGUGAGGACUAGUUUA
AGACUGACUAGCCCGAUGGGCCUCCCAACGGGCCCUCCUCCCCUCCUUGCACCGAGAUUA
AUAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUUCAGAGC
CACCAGAAUU

Fig. 9

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

GGGAGAAAGCUUACCAUGGUGCCCCAGGCCUGCUCUUCGUCCCGCUGCUGGUGUUC
CUCUGCUUCGGCAAGUUCUACACCAUCCCCGACAAGCUGGGGCGUGGAGCCCC
AUCGACAUCCACCACCUGUCCUGCCCCAACCAACCUCGUGGUCGAGGACGAGGGCUGCACC
AACCUGAGCGGGUUCUCCUACAUGGAGCUGAAGGUGGGCUACAUCAGCGCCAUCAAGAUG
AACGGGUUACGUGCACC GGCGUGGUCACCGAGGCGGAGACCUACACGAACUUCGUGGGC
UACGUGACCAACCACCUUCAAGCGGAAGCACUUCGCCCCACGCCGACGCCUGCCGGGGC
GCCUACAACUGGAAGAUGGCCGGGGACCCCCGCUACGAGGAGUCCUCCACAACCCCUAC
CCCGACUACCACUGGCUGCGGACCGUCAAGACCACCAAGGAGAGCCUGGUGAUCAUCUCC
CCGAGCGUGGCGGACCUCGACCCCUACGACCGCUCUCCUGCACAGCCGGGUCUUCGGGCG
GGGAACUGCUCCGGCGUGGCCGUGAGCUCCACGUACUGCAGCACCACCAACGACUACACC
AUCUGGAUGCCCCGAGAACCCGCGCCUGGGGAUGUCCUGCGACAUCUUCACCAACAGCCGG
GGCAAGCGCGCCUCCAAGGGCAGCGAGACGUGCGGGUUCGUCGACGAGCGGGGCCUCUAC
AAGUCCUGAAGGGGGCCUGCAAGCUGAAGCUCUGCGGGCUGCUGGGCCUGCGCCUCAUG
GACGGGACCUGGGUGGCGAUGCAGACCAGCAACGAGACCAAGUGGUGCCCCCGGCCAG
CUGGUCAACCUGCAGCAGCUUCGGAGCGACGAGAUCGAGCACCUCGUGGUGGAGGAGCUG
GUCAAGAAGCGCGAGGAGUGCCUGGACGCCUCGAGUCCAUAUGACGACCAAGAGCGUG
UCCUUCGGCGCCUGAGCCACCUGCGGAAGCUCGUGCCCGGGUUCGGCAAGGCCUACACC
AUCUUAACAAGACCCUGAUGGAGGCCGACGCCACUACAAGUCCGUCCGCACGUGGAAC
GAGAUCAUCCCGAGCAAGGGGUGCCUGCGGGUGGGCGGGCCUGCCACCCCCACGUCAAC
GGGGUGUUCUUAACGGCAUCAUCCUCGGGCCCGACGGCAACGUGCUGAUCCCCGAGAUG
CAGUCCAGCCUGCUCCAGCAGCAUAUGGAGCUGCUGGUCUCCAGCGUGAUCCCCGCUAUG
CACCCCCUGGCGGACCCUCCACCGUGUUAAGAACGGGGACGAGGCCGAGGACUUCGUC
GAGGUGCACCUGCCCGACGUGCAGGCGGAUCAGCGGGCUGCACCUCGGCCUGCCGAAC
UGGGGAAGUACGUGCUGCUCUCCGCCGGCGCCUGACCGCCUGAUGCUGAUCAUCUUC
CUAUGACCUGCUGGCGCCGGGUGAACCGGAGCGAGCCACGCAGCACAACCUGCGCGGG
ACCGGCCGGGAGGUCUCCGUGACCCCGCAGAGCGGGAAGAUCAUCCAGCUGGGAGUCC
UACAAGAGCGGCGGCGAGACCGGGCUGUGAGGACUAGUUAUAAGACUGACUAGCCCGAUG
GGCCUCCCAACGGGGCCUCCUCCCCUCCUUGCACCGAGAUUAAUAAAAAAAAAAAAAA
AAAUGCAUCCCCCCC
CCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGCCACCAGAAU

Fig. 10

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R3513: EPO (wt)-A30

GGGAGAAAGCUUACCAUGGGGGUGCCCGAACGUCCCACCCUGCUGCUUUUACUCUCCUUG
CUACUGAUUCCUCUGGGCCUCCCAGUCCUCUGUGCUCCCCACGCCUCAUCUGCGACAGU
CGAGUUCUGGAGAGGUACAUCUUAGAGGCCAAGGAGGCAGAAAAUGUCACGAUGGGUUGU
GCAGAAGGUCCCAGACUGAGUGAAAAUUAUACAGUCCCAGAUACCAAAGUCAACUUCUUAU
GCUUGGAAAAGAAUGGAGGUGGAAGAACAGGCCAUAGAAGUUUGGCAAGGCCUGUCCUG
CUCUCAGAAGCCAUCCUGCAGGCCCAGGCCUGCUAGCCAAUCCUCCCAGCCACCAGAG
ACCCUUCAGCUUCAUAUAGACAAAGCCAUAGUGGUCUACGUAGCCUCACUUCACUGCUU
CGGGUACUGGGAGCUCAGAAGGAAUUGAUGUCGCCUCCAGAUACCACCCACCUGCUCCA
CUCCGAACACUCACAGUGGAUACUUUCUGCAAGCUCUUCGGGUCUACGCCAACUCCUC
CGGGGGAACUGAAGCUGUACACGGGAGAGGUCUGCAGGAGAGGGGACAGGUGACCACUA
GUAGAUCUAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Fig. 11

12/17

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

GGGUCCCGCAGUCGGCGUCCAGCGGCUCUGCUUGUUCGUGUGUGUGUCGUUGCAGGCCUU
AUUCAAGCUUACCAUGGGGCGUGCCCGAGCGGCCGACCCUGCUCCUGCUGCUCAGCCUGCU
GCUCAUCCCCCUGGGGCGUGCCCGUCCUCUGCGCCCCCCCCGCGCCUGAUCUGCGACUCCCG
GGUGCUGGAGCGCUACAUCUCGAGGCCAAGGAGGCGGAGAACGUGACCAUGGGGCGCGC
CGAGGGGCCCCGGCUGAGCGAGAACAUCACGGUCCCCGACACCAAGGUGAACUUCUACGC
CUGGAAGCGCAUGGAGGUGGAGGAGCAGGCCAUCGAGGUCUGGCAGGGCCUGUCCCUCCU
GAGCGAGGCCAUCCUGCAGGCGCAGGCCCUCCUGGCCAACUCCAGCCAGCCCCCGGAGAC
ACUGCAGCUCCACAUCGACAAGGCCAUCUCCGGGCGUGCGGAGCCUGACCUCUCCUCCUGCG
CGUGCUGGGGCGCGCAGAAGGAGCUCAUGAGCCCGCCCGACACGACCCCCCGGCCCGCU
GCGGACCCUGACCGUGGACACGUUCUGCAAGCUCUCCGCGUCUACGCCAACUCCUGCG
GGGCAAGCUGAAGCUCUACACCGGGGAGGUGUGCCGCGGGGCGACCGCUGACCACUAGU
GCAUCACAUUUAAAAGCAUCUCAGCCUACCAUGAGAAUAAGAGAAAGAAAUGAAGAUCA
AUAGCUUAUUCUUCUUCUUUUUCUUUUUCGUUGGUGUAAAGCCAACACCCUGUCUAAAAAA
CAUAAAUUUCUUUAAUCAUUUUGCCUCUUUUUCUCUGUGCUUCAAUUAAUAAAAAUGGAA
AGAACCUAGAUCUAAA
AAAAAAAAAAAAAAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCU
CUUUUCAGAGCCACCAGAAUU

Fig. 12

13/17

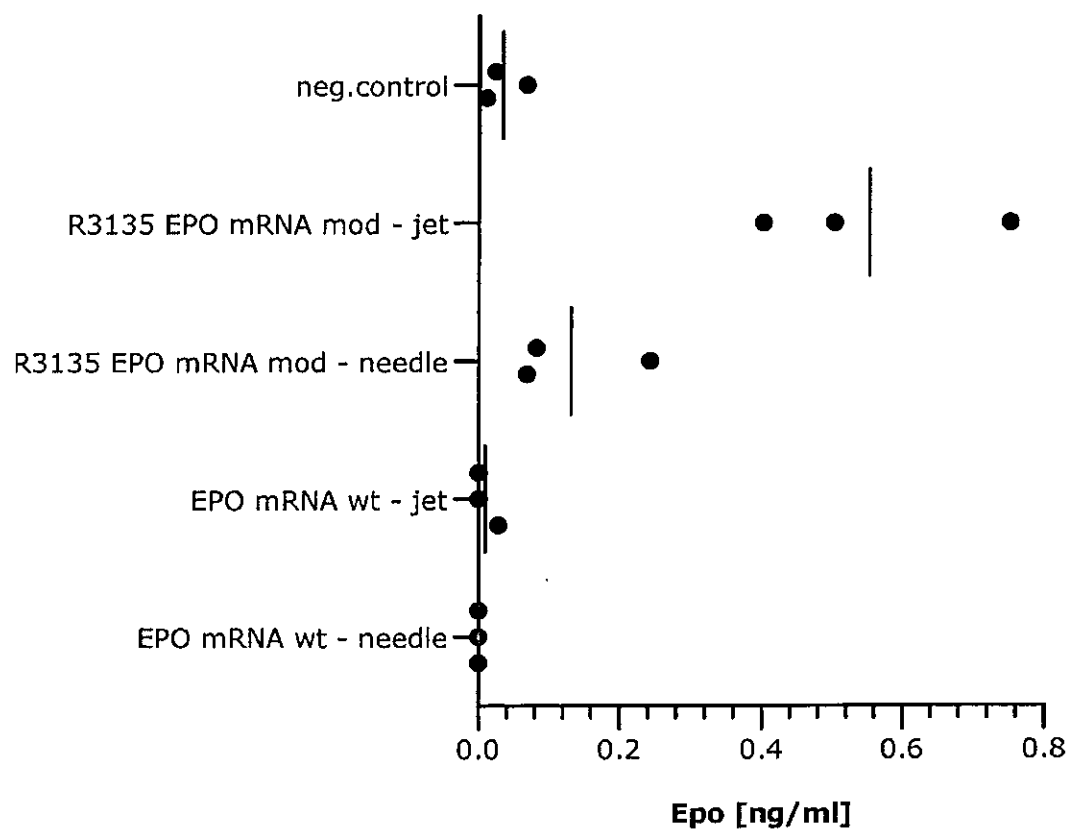
Epo from mRNA (guinea pig)

Fig. 13

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RSV-F long (GC) R2510

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Fig. 14

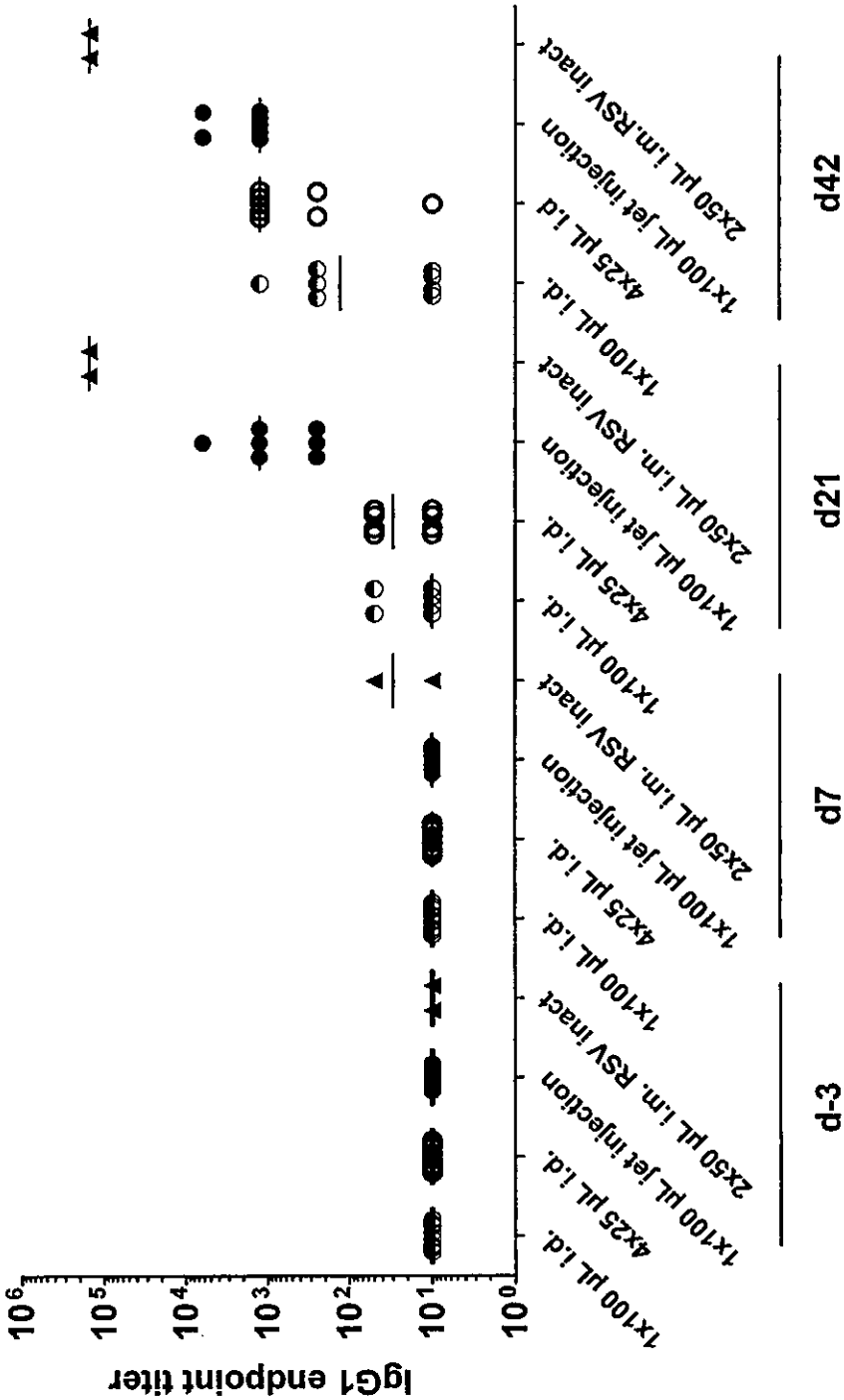


Fig. 15 A

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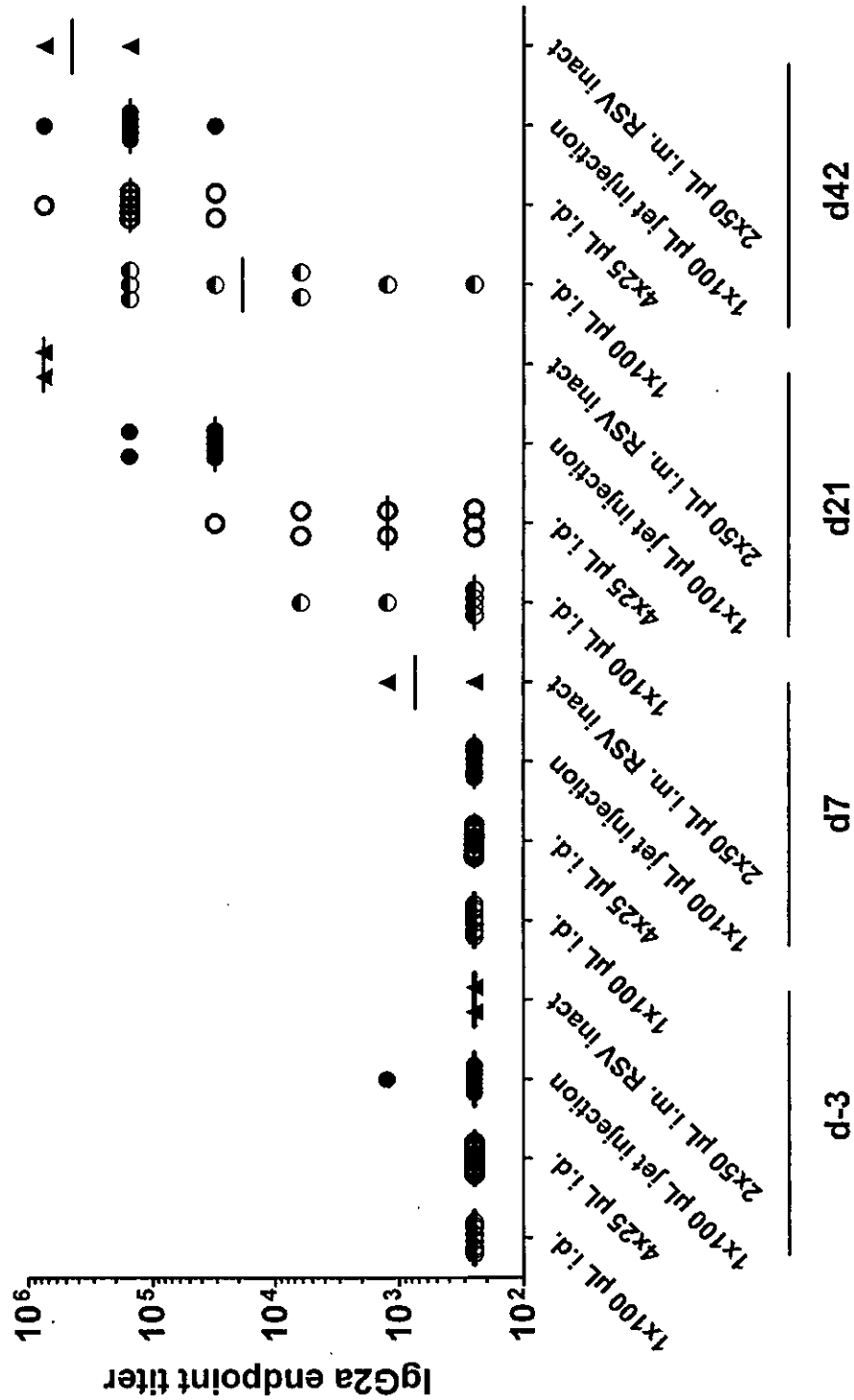


Fig. 15 B

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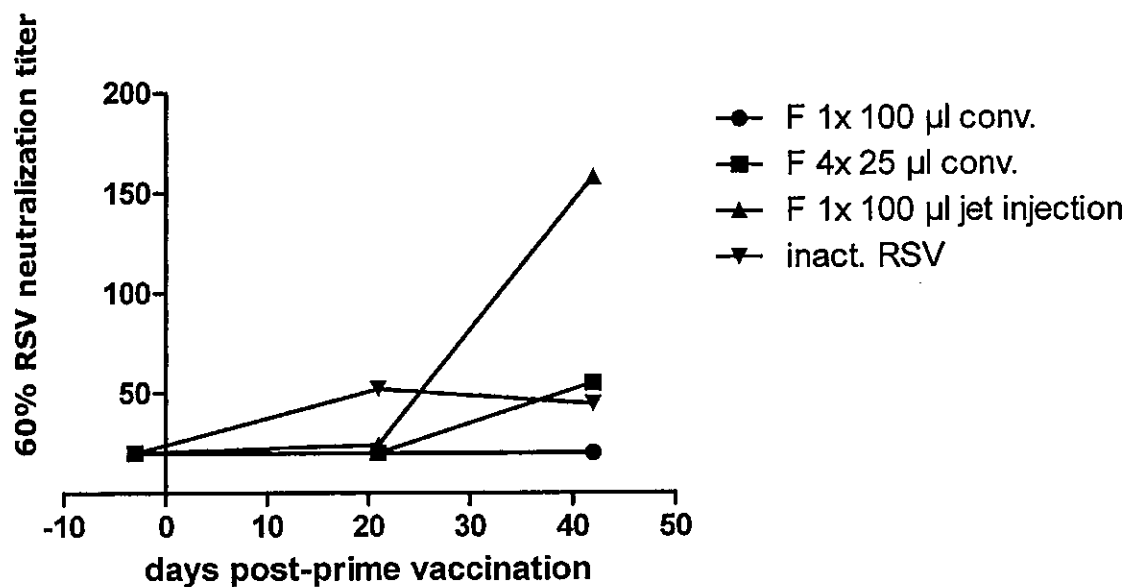


Fig. 16