

SEQ ID NO. 1: R1871 HsPSCA

GGGAGAAAGCUUACCAUGAAGGCCGUGCUGCUCGCGCUGCUGAUGGCCGGCCUGGCCCUGCAGCCGGGGACCGCC
CUGCUGUGCUACAGCUGCAAGGCCAGGUCUCGAACGAGGACUGCCUGCAGGUGGAGAACUGCACGCAGCUGGGC
GAGCAGUGCUGGACCGCCCGGAUCCGCGCCGUGGGCCUGCUCACCGUGAUCAGCAAGGGCUGCAGCCUGAACUGC
GUGGACGACAGCCAGGACUACUACGUGGGCAAGAAGAACAUCACCUGCUGCGACACCGACCUGUGCAACGCCAGC
GGCGCCACGCCCUGCAGCCCGCGGCCGCCAUCCUGGCCCGCUGCUGCCCGCCUGGGCCUGCUGCUCUGGGGGCCCC
GGCCAGCUGUGACCACUAGUUUAUAAGACUGACUAGCCCGAUGGGCCUCCCAACGGGGCCUCCUCCCCUCCUUGCA
CCGAGAUUAAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
UGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUCAGAGCCACCAGAAUU

Fig. 1

SEQ ID NO. 2: R2988 PpLuc

GGGAGAAAGCUUACCAUGGAGGACGCCAAGAACAUCAAGAAGGGCCCGGCCUUCUACCCGCUGGAGGACGGG
ACCGCCGGCGAGCAGCUCCACAAGGCCAUGAAGCGGUACGCCUUGGUGCCGGGCACGAUCGCCUUCACCGACGCC
CACAU CGAGGUCGACAUCACCUACGCGGAGUACUUCGAGAUGAGCGUGCGCCUGGCCGAGGCCAUGAAGCGGUAC
GGCCUGAACACCAACCACCGGAUCGUGGUGUGCUCGGAGAACAGCCUGCAGUUCUUAUGCCGGUGCUGGGCGCC
CUCUUAUCGGCGUGGCCGUCGCCCCGGCGAACGACAUCUACAACGAGCGGGAGCUGCUGAACAGCAUGGGGAUC
AGCCAGCCGACCGUGGUGUUCGUGAGCAAGAAGGGCCUGCAGAAGAUCUGAACGUGCAGAAGAAGCUGCCCAUC
AUCCAGAAGAUAUCAUCAUGGACAGCAAGACCGACUACCAGGGCUUCCAGUCGAUGUACACGUUCGUGACCAGC
CACCUC CCGCCGGGCUUAACGAGUACGACUUCGUCCCGGAGAGCUUCGACCGGGACAAGACCAUCGCCUGAUC
AUGAACAGCAGCGGCAGCACC GGCCUGCCGAAGGGGGUGGCCUUGCCGCACCGGACCGCCUGCGUGCGCUUCUCG
CACG CCGGGACCCCAUCUUCGGCAACCAGAUCAUCCCGGACACCGCCAUCCUGAGCGUGGUGCCGUUCCACCAC
GGCUUCGGCAUGUUCACGACCCUGGGCUACCUAUCUGCGGCUUCCGGGUGGUCCUGAUGUACCGGUUCGAGGAG
GAGCUGUUCUGCGGAGCCUGCAGGACUACAAGAUCAGAGCGCGCUGCUGCGGCCACCCUGUUCAGCUUCUUC
GCCAAGAGCACCCUGAUCGACAAGUACGACCUGUCGAACCUGCACGAGAUCCGAGCGGGGGCGCCCCGCUGAGC
AAGGAGGUGGGCGAGGCCGUGGCCAAGCGGUUCCACCUC CCGGGCAUCCGCCAGGGCUACGGCCUGACCGAGACC
ACGAGCGCGAUCCUGAUCAC CCGGAGGGGGACGACAAGCCGGGCGCCGUGGGCAAGGUGGUCCCGUUCUUCGAG
GCCAAGGUGGUGGACCUGGACACCGGCAAGACCCUGGGCGUGAACCAGCGGGGCGAGCUGUGCGUGCGGGGGCCG
AUGAUCAUGAGCGGCUACGUGAACAACCCGGAGGCCACCAACGCCCUCAUCGACAAGGACGGCUGGCUGCACAGC
GGCGACAUCGCCUACUGGGACGAGGACGAGCACUUCUUAUCGUCGACCGGCUGAAGUCGCUGAUCAAGUACAAG
GGCUACCAGGUGGCGCCGGCCGAGCUGGAGAGCAUCCUGCUCCAGCACCCCAACAUCUUCGACGCCGGCGUGGCC
GGGCUGCCGGACGACGACCGCGGAGCUGCCGGCCGCGGUGGUGGUGCUGGAGCACGGCAAGACCAUGACGGAG
AAGGAGAU CGUCGACUACGUGGCCAGCCAGGUGACCACCGCCAAGAAGCUGCGGGGCGGCGUGGUGUUCGUGGAC
GAGGUCCCGAAGGGCCUGACCGGGAAGCUCGACGCCCCGGAAGAUCCGCGAGAUCUGAUCAAGGCCAAGAAGGGC
GGCAAGAUCGCCGUGUGAGGACUAGUUAUAAGACUGACUAGCCCCGAUGGGCCUCCCAACGGGCCCUCCUCCCCUC
CUUGCACCGAGAUUAAUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAUGCAUCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCAAGGCUCUUUUCAGAGCCACCAGAAUU

Fig. 2

SEQ ID NO. 3: R1626 EGFR/Mucin-1

GGGAGAAAGCUUACCAUGACCCCCGGCACCCAGAGCCCGUUCUUCUGCUCUCCUGCUGCUCACGGUGCUGACCGUC
GUGACCGGGAUGCGGCCGAGCGGCACCGCCGGGGCGGCCUGCUCGCCUGCUGGGCCGCCUGUGCCCCGCCUCG
CGCGCGCUGGAGGAGAAGAAGGUGUGCCAGGGCACGAGCAACAAGCUGACCCAGCUCGGCACCUUCGAGGACCAC
UUCUGAGCCUGCAGCGGAUGUUAACAACUGCGAGGUCGUGCUGGGCAACCUGGAGAUAACCUACGUGCAGCGG
AAUACGACCUGAGCUUCCUCAAGACCAUCCAGGAGGUGGCCGGCUACGUGCUGAUCGCCUGAACACCGUGGAG
CGGAUCCCGCUGGAGAACCUGCAGAUCAUCCGGGGCAACAUGUACUACGAGAACAGCUACGCCUGGGCCGUCCUC
AGCAACUACGACGCCAACAAGACGGGGCUGAAGGAGCUGCCGAUGCGGAACCUGCAGGAGAUAUCCUGCACGGCGCG
GUGCGCUUCUCGAACAACCCGGCCUGUGCAACGUGGAGAGCAUCCAGUGGGCGGGACAUCGUGAGCAGCGACUUC
CUCAGCAACAUGAGCAUGGACUUCAGAACCAUCCUGGGCUCGUGCCAGAAGUGCGACCCGAGCUGCCGAACGGC
AGCUGCUGGGGCGCCGGCGAGGAGAACUGCCAGAAGCUGACCAAGAUAUCUGCGCCAGCAGUGCAGCGGGCGG
UGCCGGGGCAAGAGCCCCAGCGACUGCUGCCACAACCAGUGCGCCGCCGGCUGCACCGGCCCGGGGAGUCGGAC
UGCCUGGUGUGCCGGAAGUUCGCGACGAGGCGACCUGCAAGGACACCUGCCCGCCGUGAUGCUGUACAACCCG
ACCACGUACCAGAUGGACGUGAACCCGGAGGGCAAGUACAGCUUCGGCGCCACCUGCGUCAAGAAGUGCCCCCG
AACUACGUGGUGACCGACCACGGGAGCUGCGUGCGGGCCUGCGGCGCCGACAGCUACGAGAUGGAGGAGGACGGC
GUGCGGAAGUGCAAGAAGUGCGAGGGCCCGUGCCGGAAGGUGUGCAACGGCAUCGGCAUCGGGGAGUUAAGGAC
AGCCUCAGCAUAACGCCACCAACAUAAGCACUUAAGAACUGCACCUCGAUCAGCGGCGACCUGCACAUCCUG
CCGGUCGCCUUCGGGGCGACAGCUUCACCCACACGCCGCCGUGGACCCGAGGAGCUGGACAUAUCCUGAAGACC
GUGAAGGAGAUACCGGCUUCCUCCUGAUCCAGGCGUGGCCCAGAAACCGCACCGACCUGCACGCCUUCGAGAAC
CUGGAGAUCAUCCGGGGCCGGACCAAGCAGCACGGCCAGUUCAGCCUGGCGUGGUGAGCCUGAACAUACACCAGC
CUCGGGCUGCGGUCGUGAAGGAGAUACGCGACGGCGACGUGAUCAUCAGCGGCAACAAGAACCUGUGCUACGCC
AACACGAUAACUGGAAGAAGCUGUUCGGCACCCAGCGGCCAGAAAGACCAAGAUCAUCAGCAACCGGGGCGAGAAC
AGCUGCAAGGCCACCGGGCAGGUGUGCCACGCCUGUGCUCGCCGGAGGGCUGCUGGGGGCCGGAGCCGCGGGAC
UGCGUCAGCUGCCGCAACGUGAGCCGGGGCCGGGAGUGCGUGGACAAGUGCAACCUCUGGAGGGCGAGCCGCGG
GAGUUCGUGGAGAACAGCGAGUGCAUCCAGUGCCACCCGAGUGCCUGCCCCAGGCGAUGAACAUACCCUGCACC
GGCCGGGGGGCCGGACAACUGCAUCCAGUGCGCCACUACAUCGACGGCCCGCACUGCGUGAAGACGUGCCCCGGCC
GGCGUGAUGGGCGAGAACAACACCCUGGUCUGGAAGUACGCCGACGCCGGCCACGUGUGCCACCUGUGCCACCCG
AACUGCACCUACGGCUGCACCGGGCCGGGCCUGGAGGGCUGCCCCACCAACGGCCCGAAGAUCCCGAGCAUCGCC
ACCGGCAUGGUGGGCGCGCUCCUGCUGCUGCUGGUGGUGGCCUGGGGAUCGGCCUCUUAUGCGGCGCCGGCAC
AUCGUGCGGAAGCGGACGCUGCGGCGGCUGCUGCAGGAGCGCGAGCUGGUCGAGCCGUGACCCCGAGCGGCGAG
GCCCCGAACCAGGCCUCCUGCGGAUCCUGAAGGAGACCGAGUUAAGAAGAUAAGGUGCUGGGCUCGGGGCGCC
UUCGGCACCGUGUACAAGGGCUGUGGAUCCCCGAGGGCGAGAAGGUGAAGAUAUCCGGUGGCCAUCAAGGAGCUG
CGGGAGGCGACCAGCCGAAGGCCAACAAGGAGAUCCUCGACGAGGCCUACGUGAUGGCCAGCGUCGACAACCCG
CACGUGUGCCGGCUGCUGGGCAUCUGCCUGACCAGCACGGUGCAGCUGAUAUCCAGCUGAUGCCGUUCGGCUGC
CUCCUGGACUACGUGCGGGAGCACAAAGGACAACAUCGGCAGCCAGUACCUGCUGAACUGGUGCGUGCAGAUCCG

Fig. 3

AAGGGCAUGAACUACCUGGAGGACCGGCGCCUGGUGCACCGGGACCUCGCCGCGCGGAACGUCCUGGUGAAGACC
CCGCAGCACGUGAAGAUCACCGACUUCGGGCUGGCCAAGCUGCUGGGCGCCGAGGAGAAGGAGUACCACGCCGAG
GGCGGCAAGGUGCCCAUCAAGUGGAUGGGCCUGGAGAGCAUCCUCCACCGGAUCUACACCCACCAGUCGGACGUG
UGGAGCUACGGCGUGACCGUCUGGGAGCUGAUGACGUUCGGCAGCAAGCCGUACGACGGGAUCCCGGCCAGCGAG
AUCAGCAGCAUCCUGGAGAAGGGCGAGCGGCUGCCGCAGCCGCCGAUCUGCACCAUCGACGUGUACAUGAUGAUG
GUGAAGUGCUGGAUGAUCGACGCGGACUCGCGGCCCAAGUUCGCGAGCUGAUCAGAGUUCAGCAAGAUGGCC
CGGGACCCCGCAGCGGUACCUGGUGAUCCAGGGCGACGAGCGGAUGCACCUCGAGCCCGACCGACAGCAACUUC
UACCGGGCCCUGAUGGACGAGGAGGACAUGGACGACGUGGUGGACGCCGACGAGUACCUGAUCCCGCAGCAGGGC
UUCUUCAGCAGCCCGUCGACCAGCCGGACCCCGCUGCUGAGCAGCCUGAGCGCCACCAGCAACAACUCGACGGUC
GCCUGCAUCGACCGCAACGGCCUCCAGAGCUGCCCCAUCAAGGAGGACAGCUUCCUGCAGCGGUACAGCAGCGAC
CCGACCGGCGCGCUGACCGAGGACAGCAUCGACGACACCUUCCUGCCGGUGCCGGAGUACAUAACCAGUCGGUG
CCGAAGCGGCCCCGCCGGGAGCGUGCAGAACCCGGUGUACCACAACCAGCCGUGAACC CGGCCCGAGCCGGGAC
CCGCACUACCAGGACCCCCACAGCACC GCCGUGGGCAACCCGGAGUACCUGAACACCGUCCAGCCGACGUGCGUG
AACAGCACCUUCGACAGCCCGGCCACUGGGCCCAGAAGGGCUCGCACCAGAUCAAGCCUCGACAACCCGGACUAC
CAGCAGGACUUCUUCGGAAGGAGGCGAAGCCCAACGGCAUCUUAAGGGCAGCACCGCCGAGAACGCCGAGUAC
CUGCGGGUGGCCCCGCAGAGCAGCGAGUUAUCGGCGCCUCCGGCCACGCCAGCUCCACCCCGGGGGCGAGAAG
GAGACGAGCGCCACCAGCGGUCCAGCGUGCCCUCCAGCACCGAGAAGAACGCGGUCUCCAUGACCAGCUCCGUG
CUGAGCUCCACAGCCCCGGGUCCGGCAGCUCCACGACCCAGGGCCAGGACGUGACCCUCGCCCCGGCCACCAG
CCCGCCAGCGGGUCCGCCGCGACGUGGGGCCAGGACGUCACCAGCGUGCCCGUGACCCGCCCCGCCUGGGGAGC
ACCACGCCGCCGCCACGACGUCACCUCGCCCCGACAACAAGCCCGCGCCGGGCAGCACCGCCCCCCCCGCC
CACGGGGUGACCUCGCCCCGACACGCGGCCGGCCCCCGGCAGCACCGCGCCCCCGCCACGGCGUGACCUC
GCCCCGGACACCGCCCCGGCCCCGGCAGCACCGCCCCCCCCCGCCACGGGGUGACCUCGCCCCGGACACGCGG
CCCGCCCCCGGCAGCACCGCCCCGCCCCGACCGCGUACGUCCGCGCCCGACAACCGCCCCGCCCCUGGGGAGC
ACCGCCCCGCCGUGCACAACGUGACCUCGCCAGCGGCUCCGCGAGCGGGUCCGCCAGCACCCUCGUCCACAAC
GGCAGCUCCGCCCGGGCCACCACACCCCGCCAGCAAGUCCACGCCCUCAGCAUCCCGUCCACCACAGCGAC
ACCCCCACCACCCUGGCGUCCACAGCACGAAGACCGACGCCUCCAGCACCCACCACUCCAGCGUGCCCCCGCUG
ACCAGCUCCAACCACAGCAGUCCCCGAGCUCAGCACCGGGGUGUCCUUCUUCUCCUGAGCUUCCACAUCUCC
AACCUGCAGUUAACAGCUCCUCGAGGACCCAGCACCGACUACUACCAGGAGCUGCAGCGGGACAUCUCCGAG
AUGUCCUGCAGAUCAACAAGCAGGGCGGCUUCCUCGGGUGAGCAACAUAAGUCCGCCCGGCUCGUGUG
GUGCAGCUGACCCUCGCCUCCGGGAGGGGACGAUACGUCCACGACGUGGAGACCCAGUUAACCAGUACAAG
ACCGAGGCCGCCAGCCGCUACAACCUGACCAUCUCCGACGUGAGCGUCUCCGACGUGCCCUUCCCGUUCAGCGCG
CAGUCCGGCGCCGGCGUGCCCGGGCCGUGUGCCAGUGCCGGCGCAAGAACUACGGGCAGCUCGACAUCUCCCC
GCCCGGGACACGUACCACCCGAUGAGCGAGUACCCGACCUACCACACCCACGGCCGUACGUCCCCCCCCAGCUCC
ACCGACCGGAGCCCCUACGAGAAGGUGUCCGCCGGAACGGCGGCAGCUCCUGAGCUACACCAACCCGGCGGUG
GCCGCCGCCUCCGCCAACCUGGAGGACCAGGUGGACCCCGGCUGAUCGACGGCAAGUGAGGACUAGUUAUAGA
CUGACUAGCCCGAUGGGCCUCCCAACGGGCCUCCUCCCCUCCUUGCACCGAGAUUAUAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUUAUCCCCCCCCCCCCCCCCCCCC
CCCCCCCUCUAG

Fig. 3 continued

SEQ ID NO. 4: R2025

[illegible]

Fig. 4

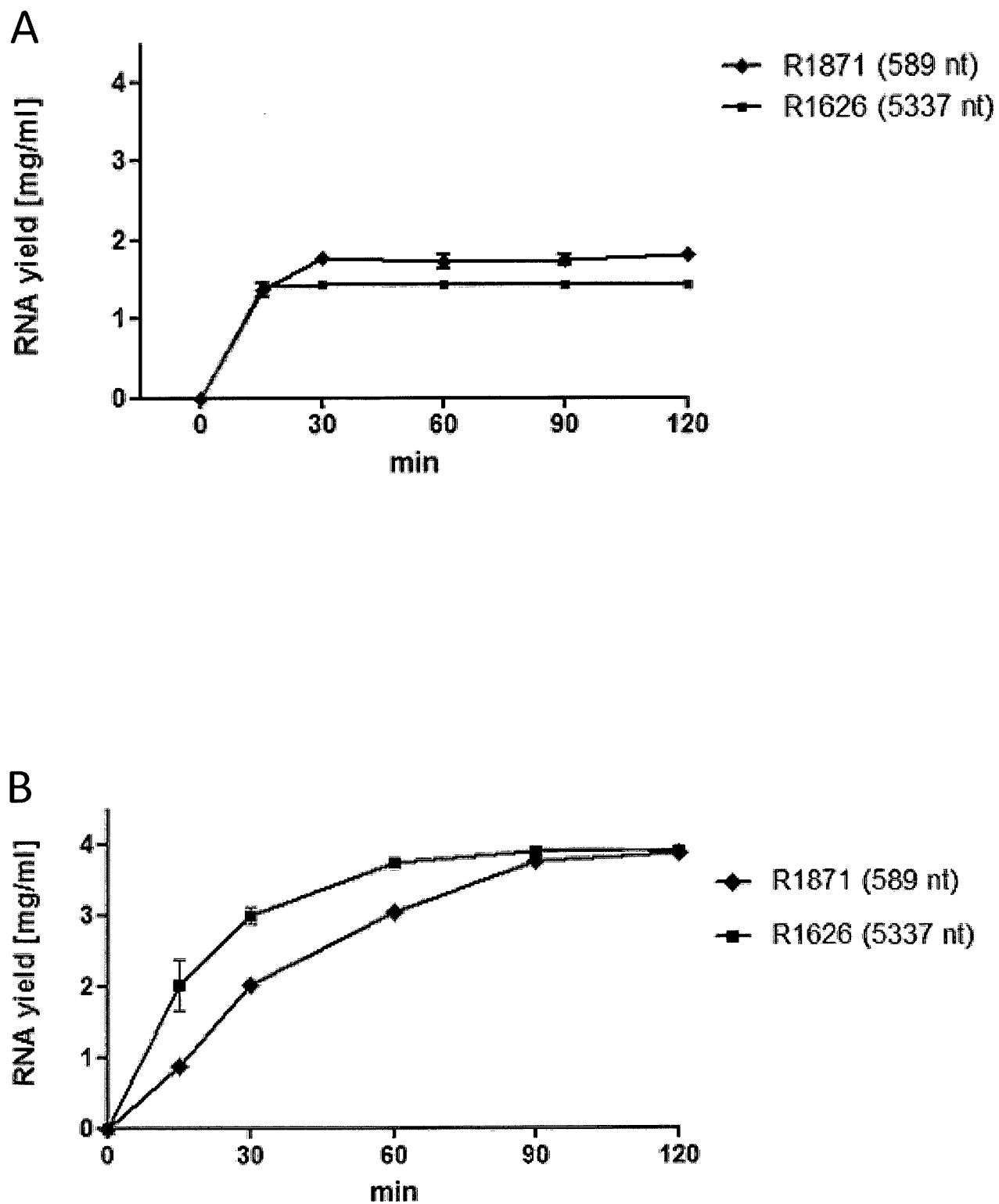


Fig. 5

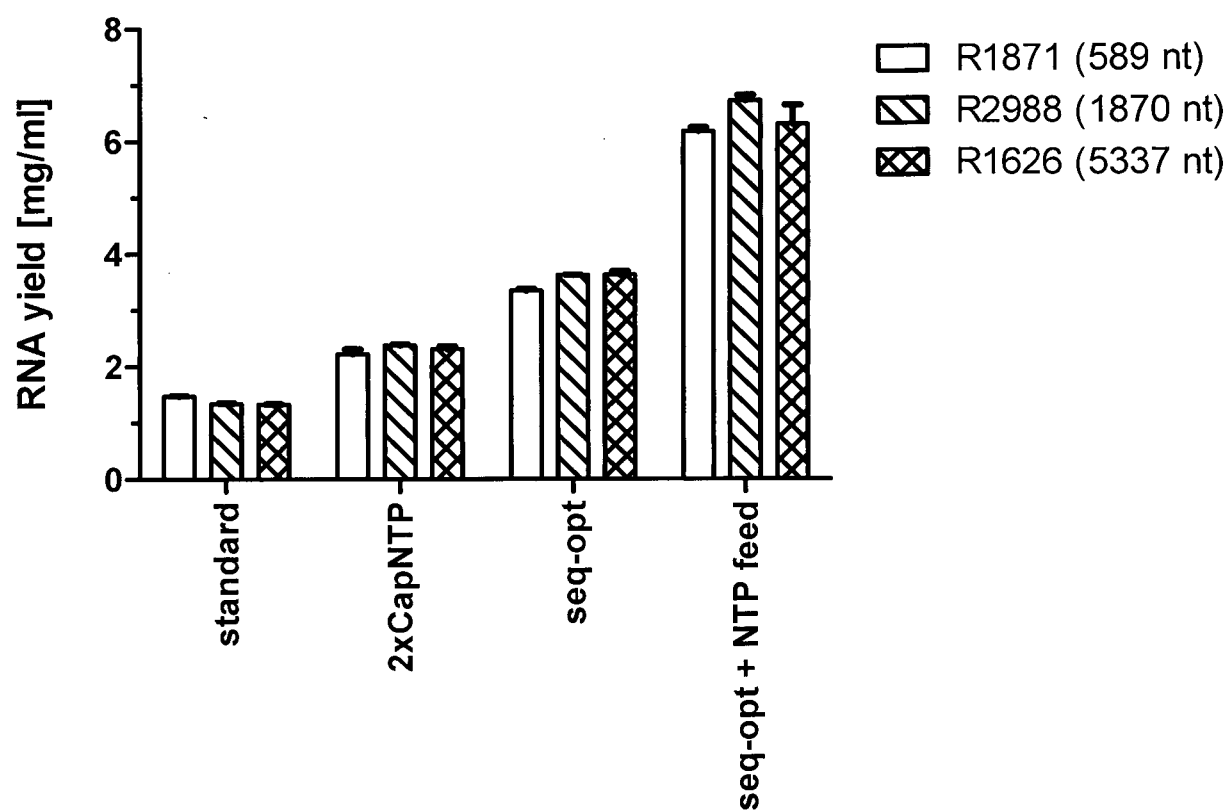


Fig. 6

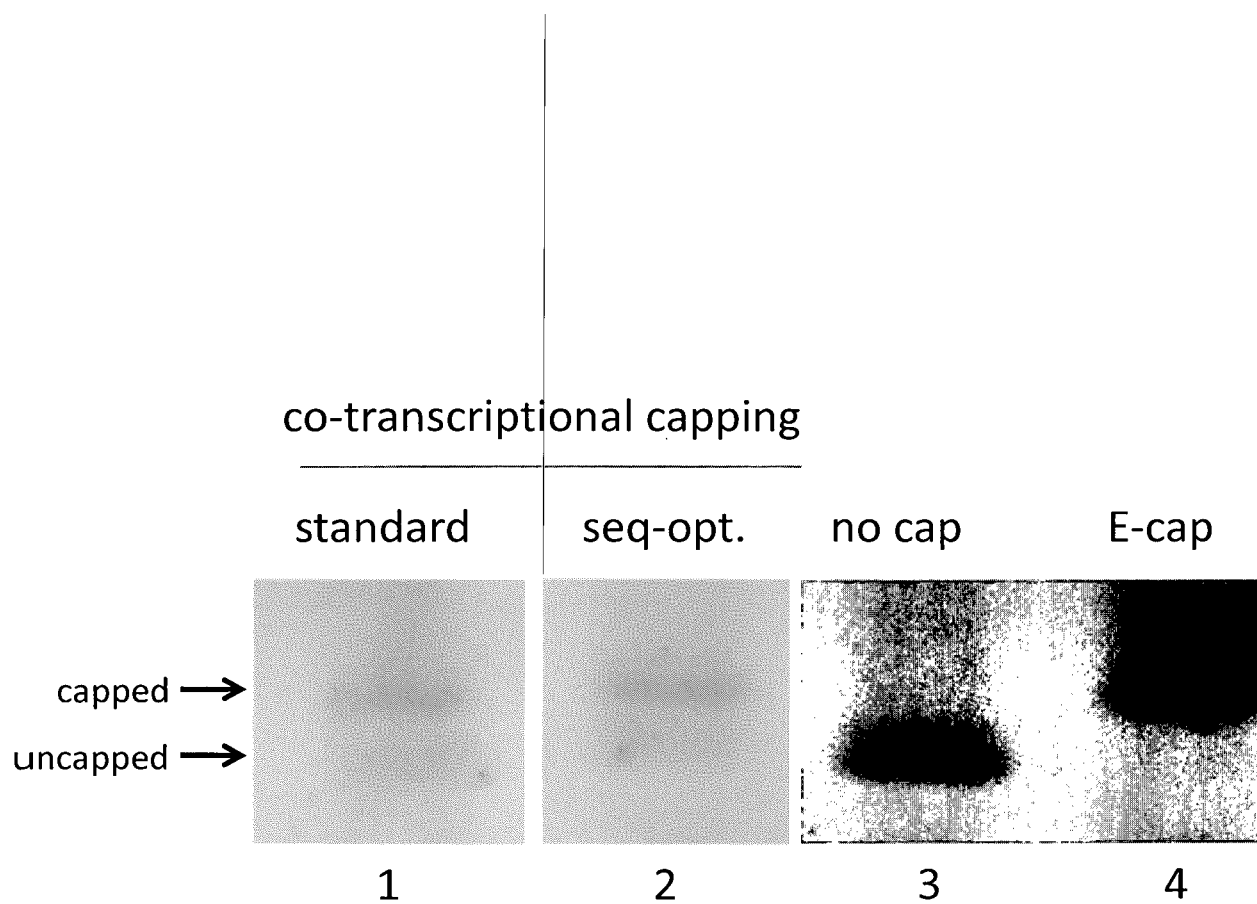


Fig. 7

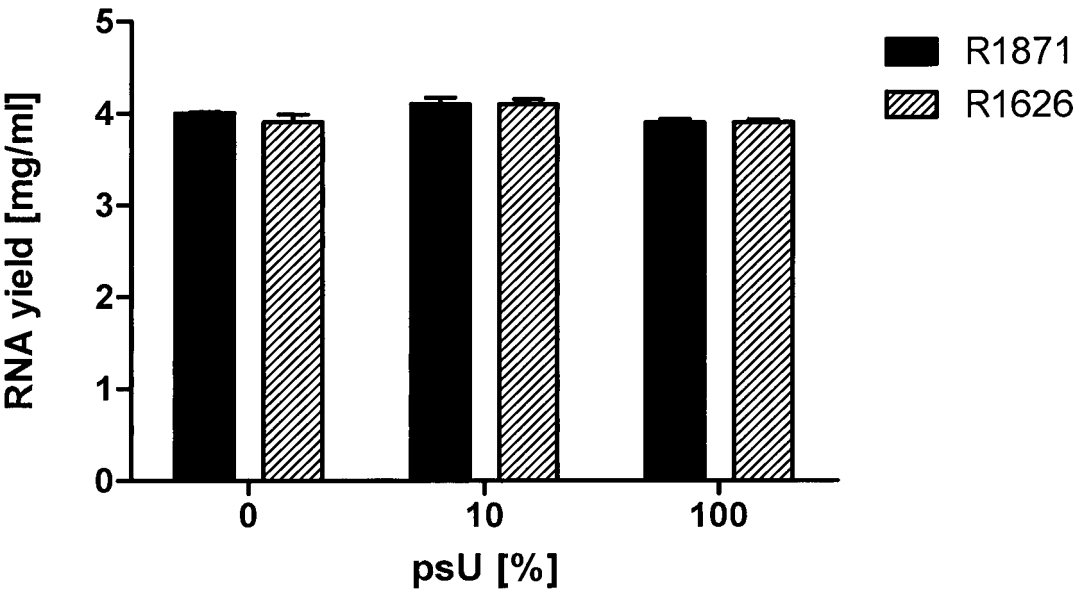


Fig. 8

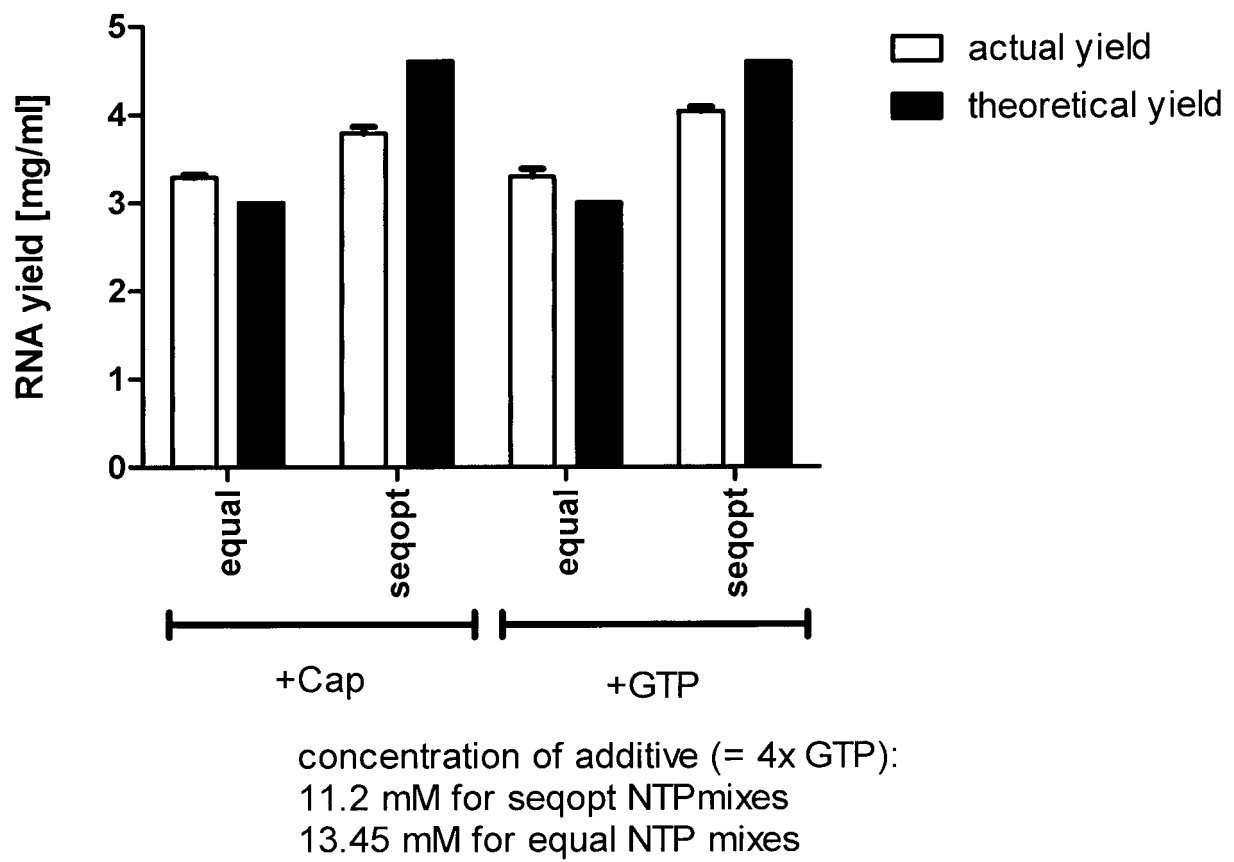


Fig. 9

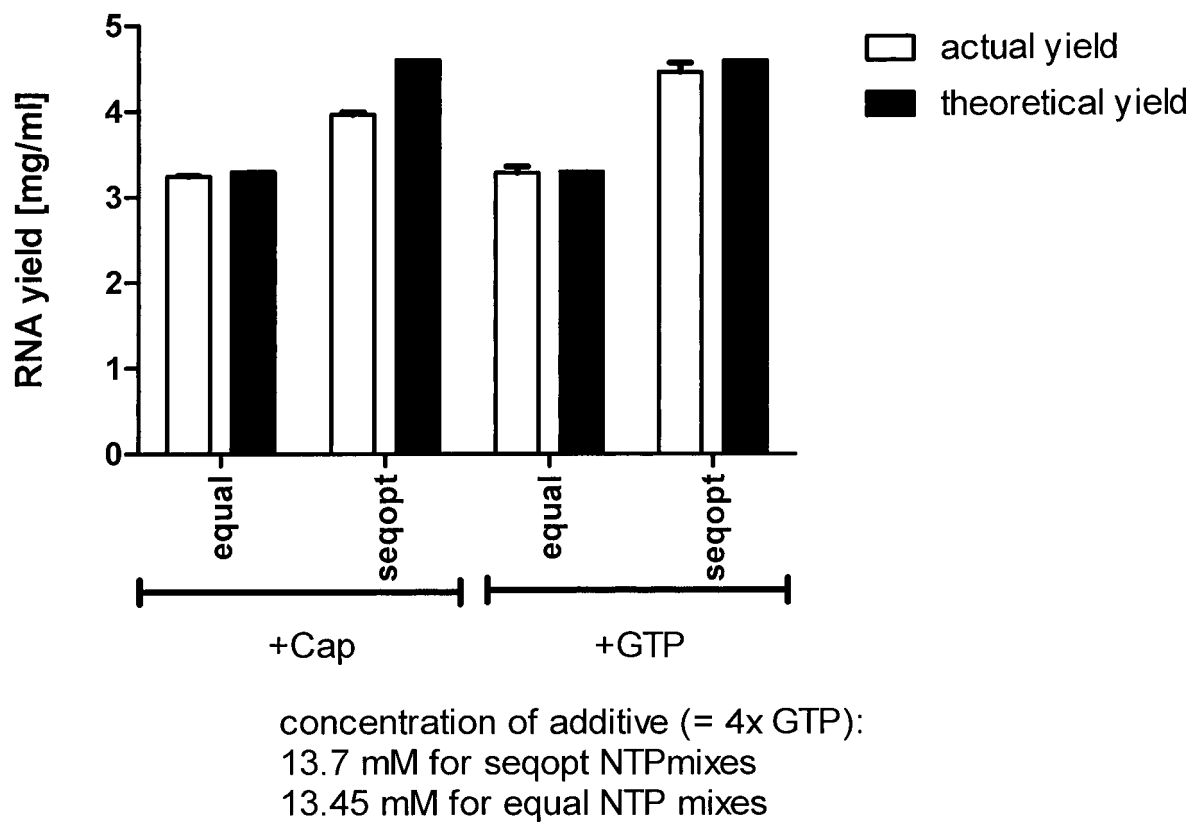


Fig. 10

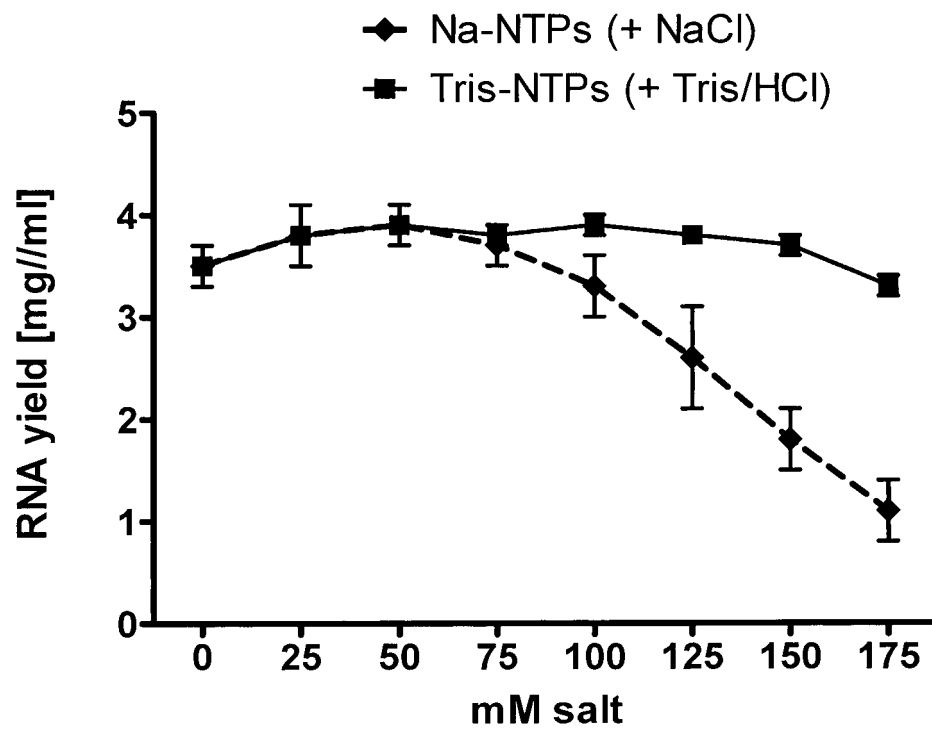
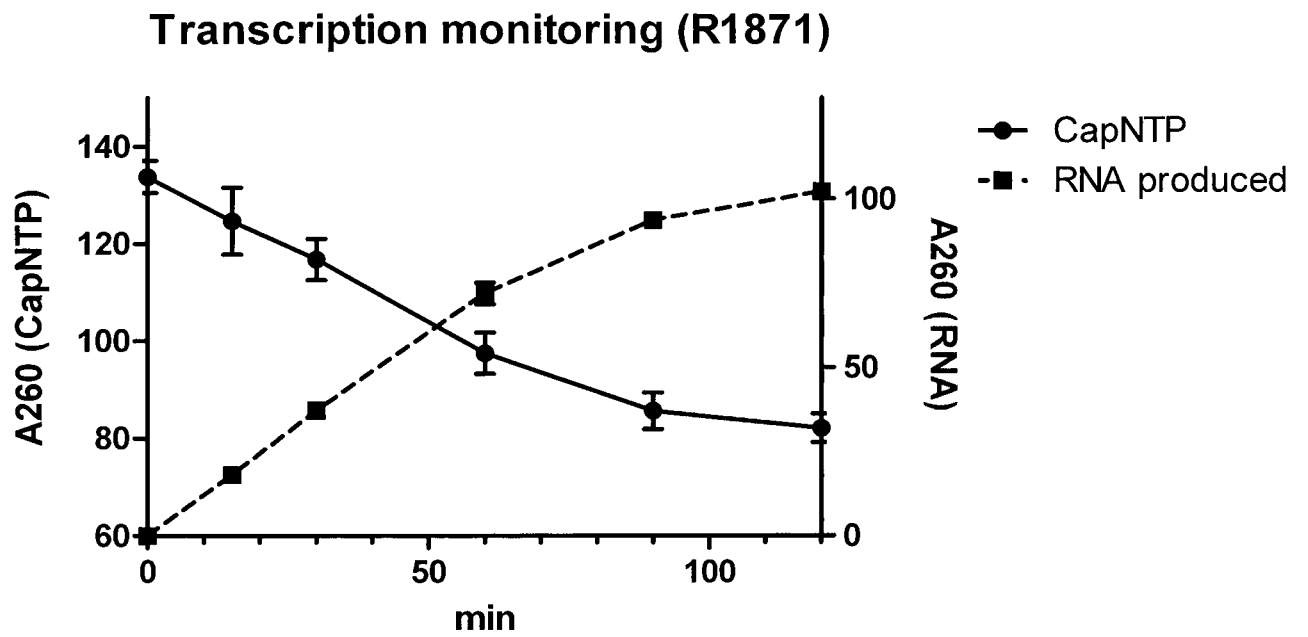


Fig. 11

**Fig. 12**

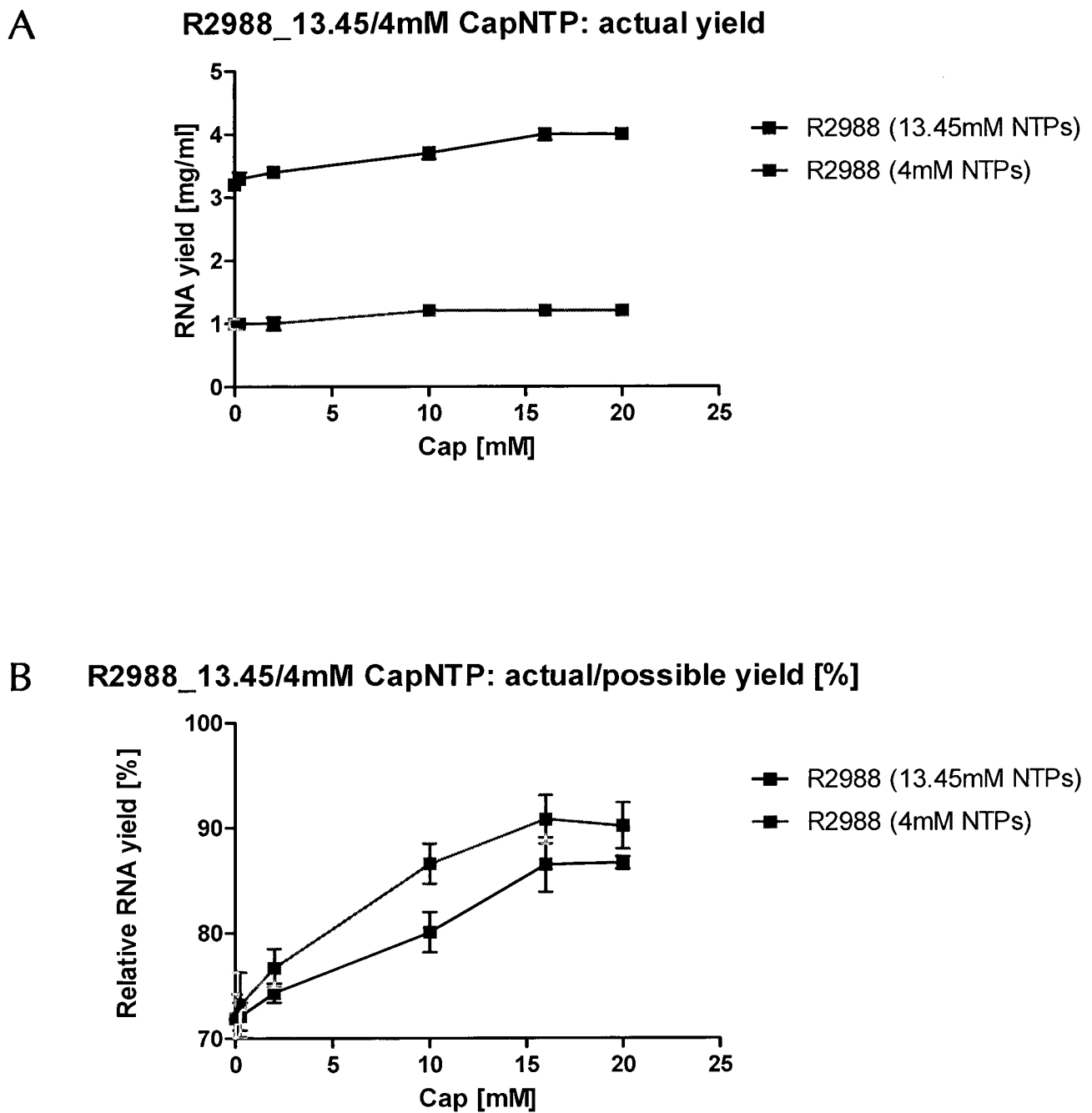


Fig. 13

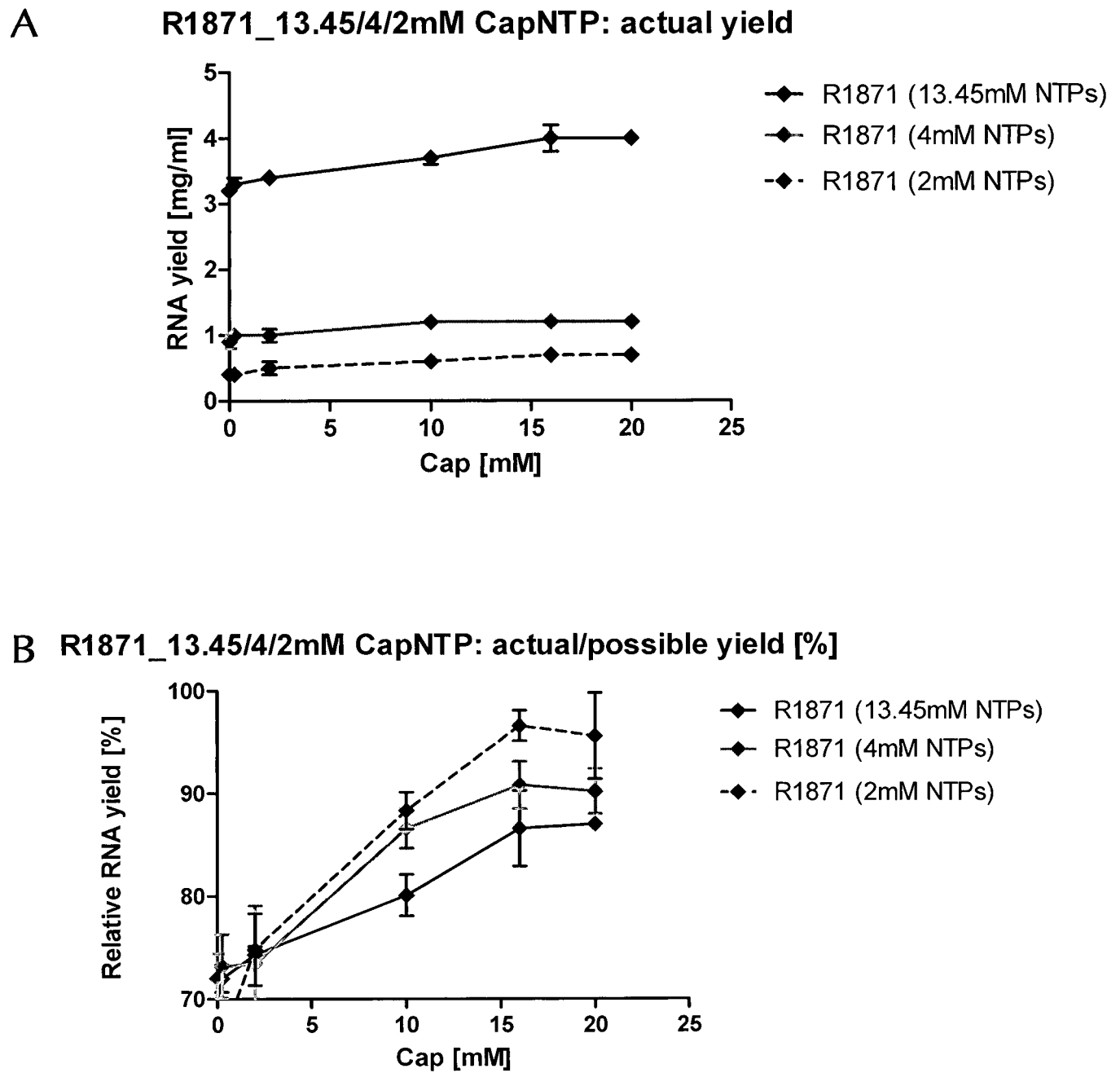


Fig. 14

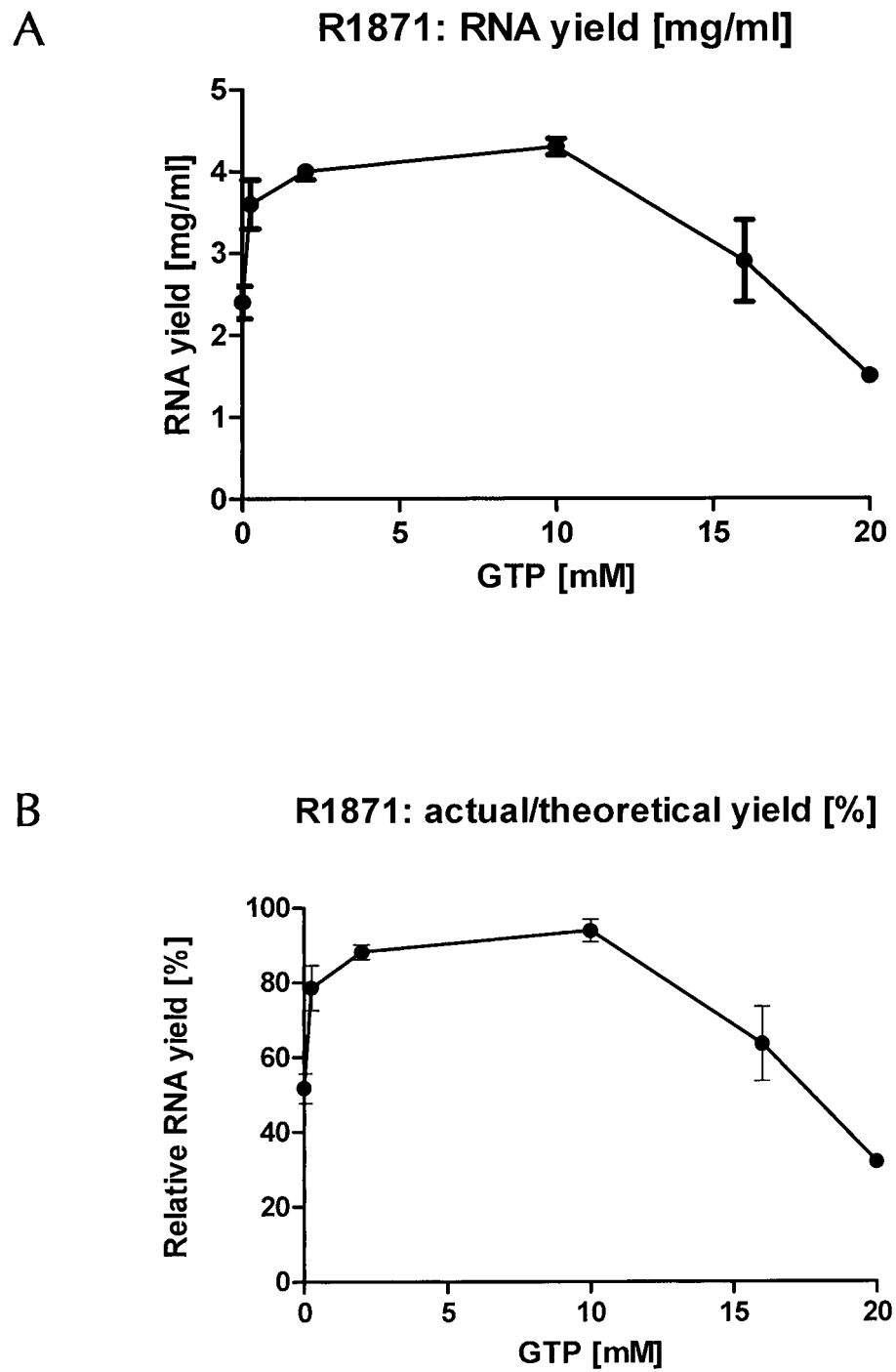
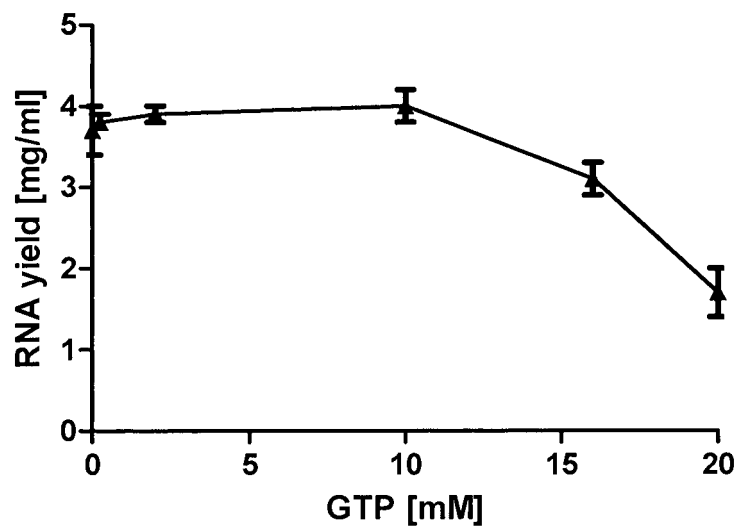


Fig. 15

A

R2988: RNA yield [mg/ml]



B

R2988: actual/theoretical yield [%]

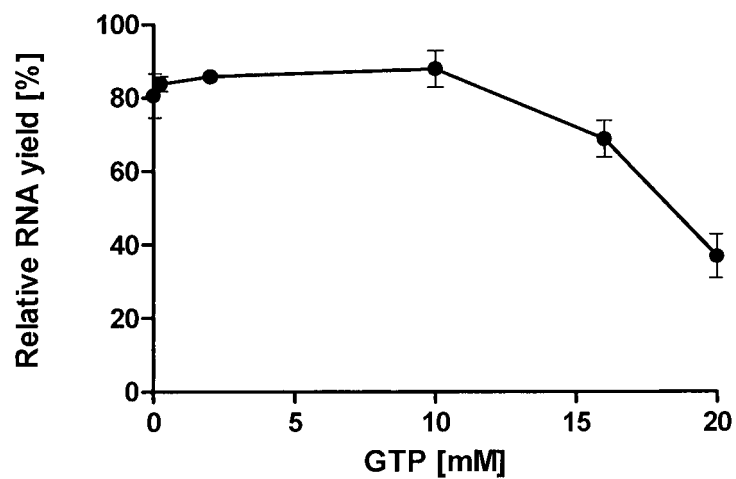
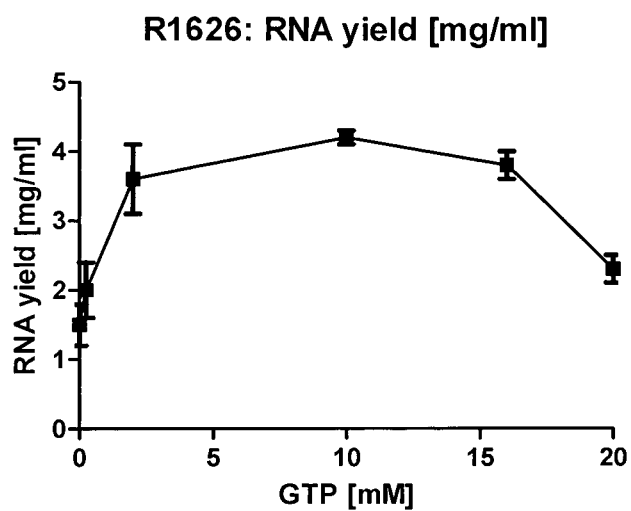


Fig. 16

A



B

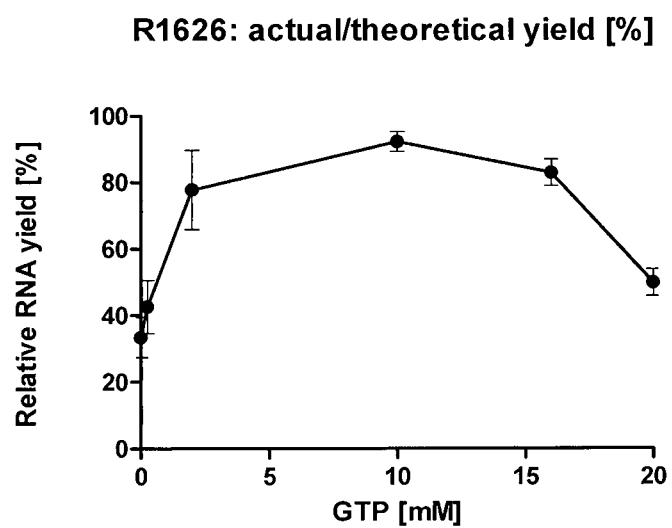


Fig. 17

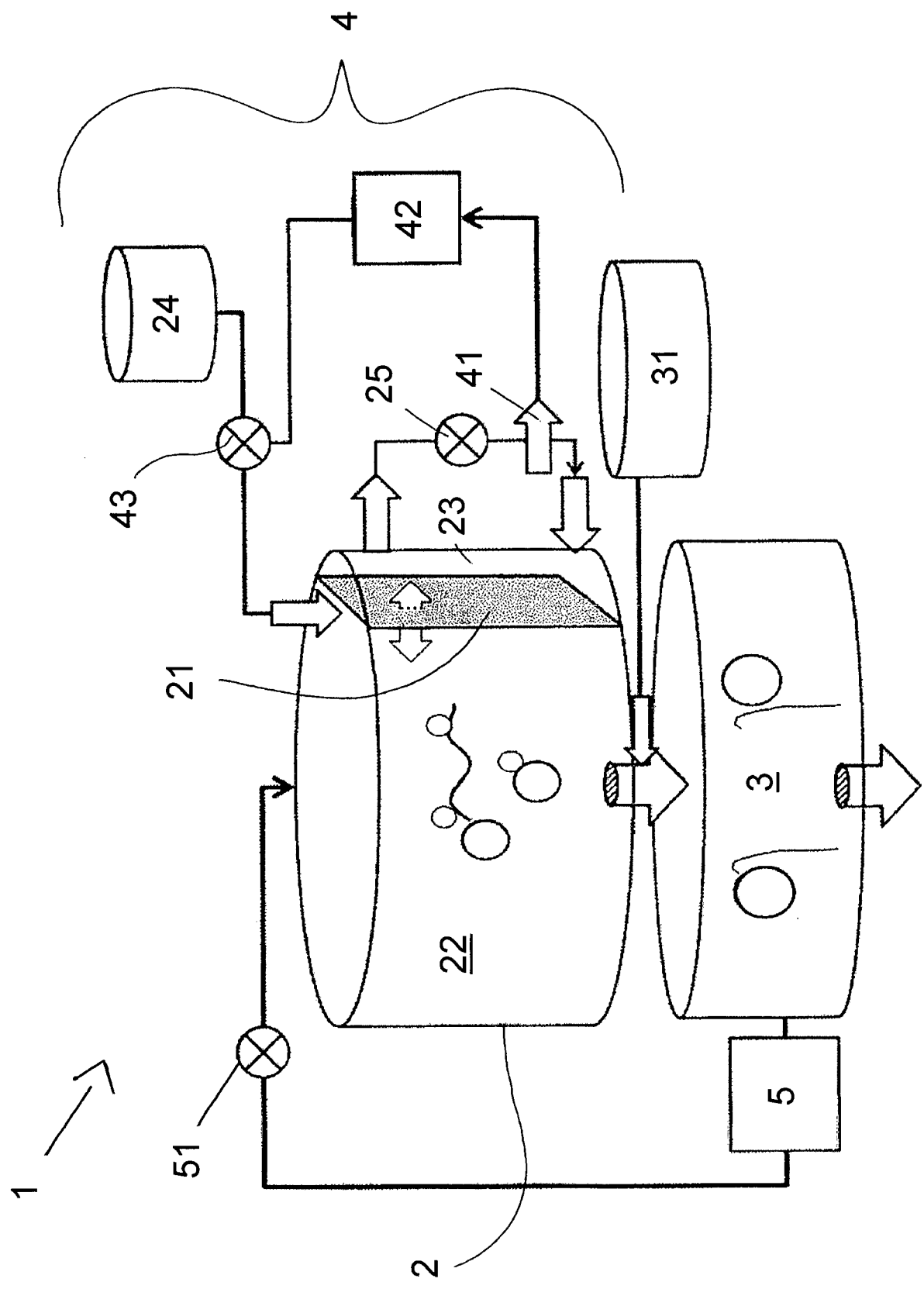


Fig. 18

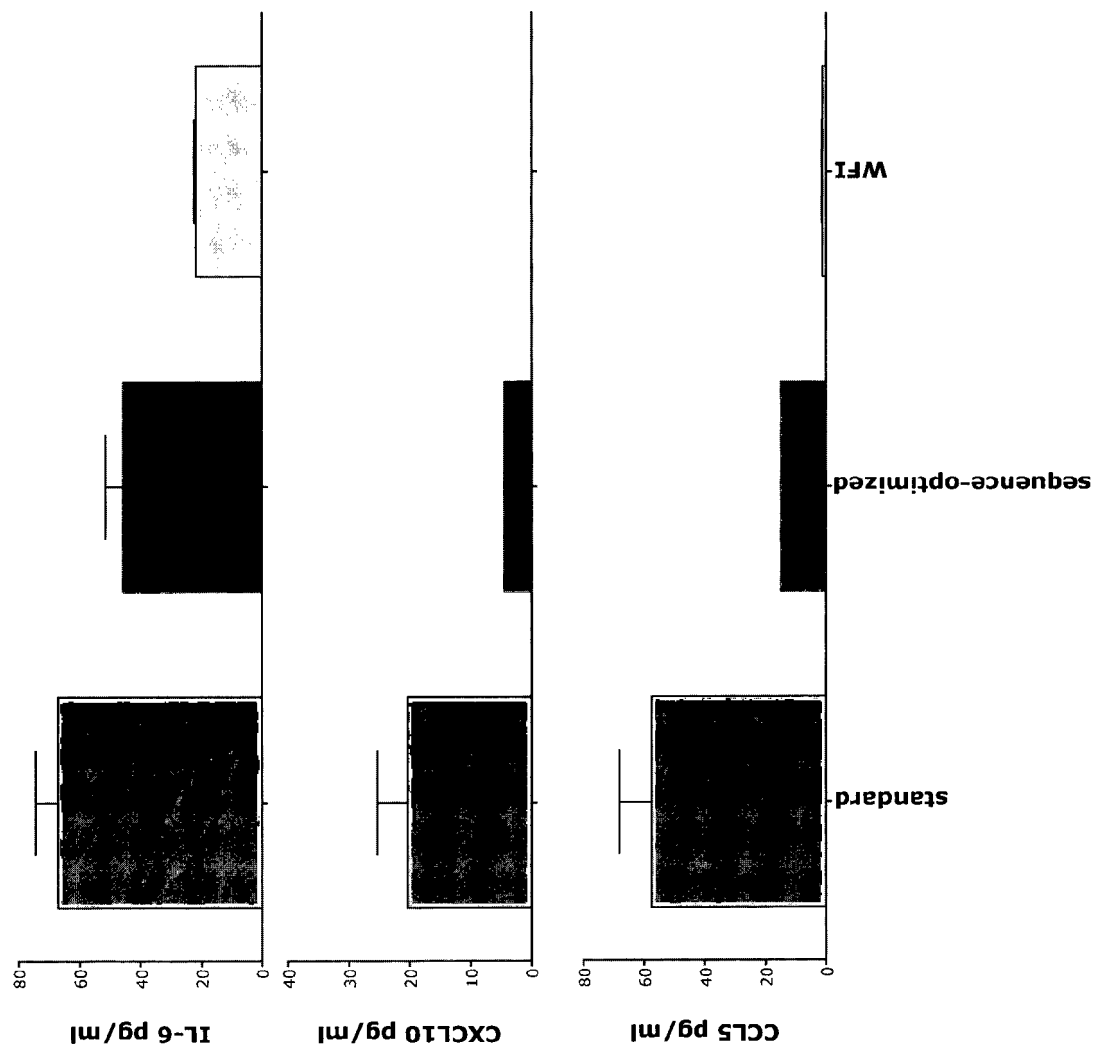
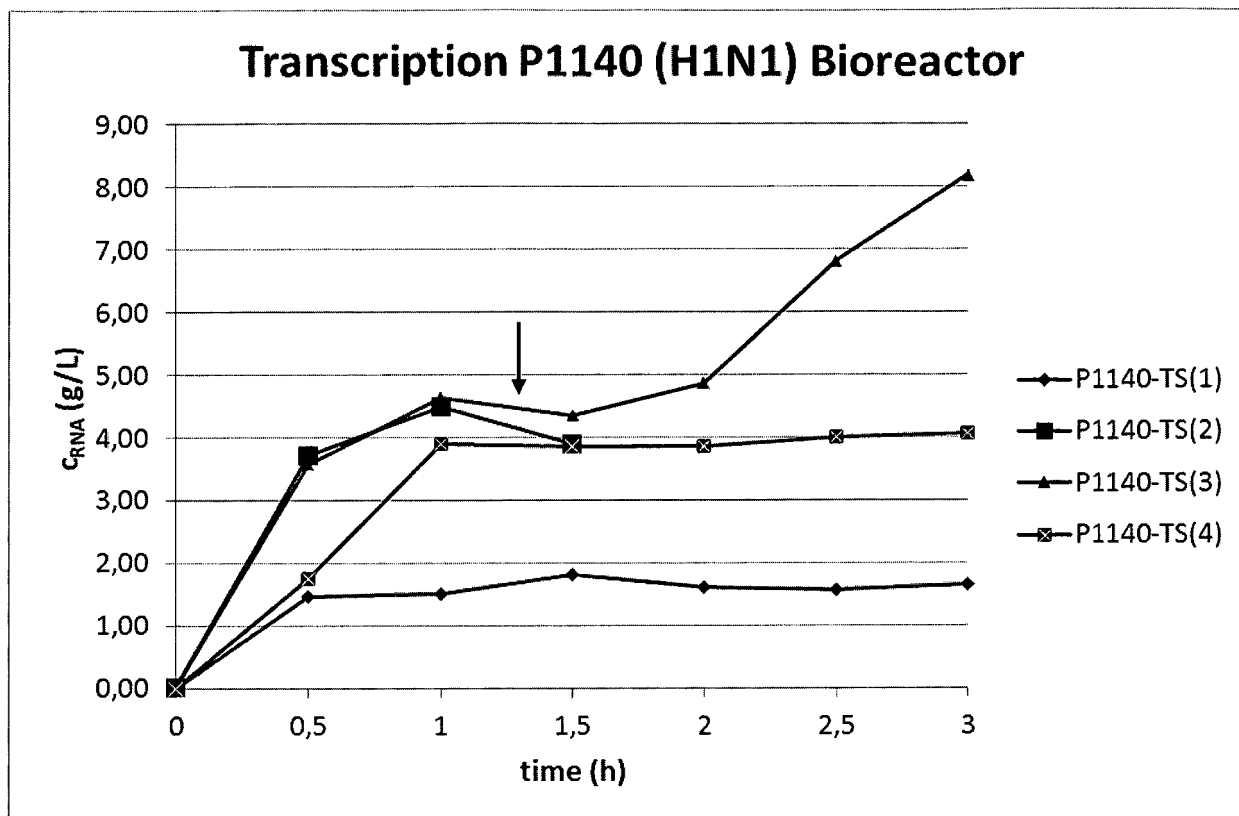


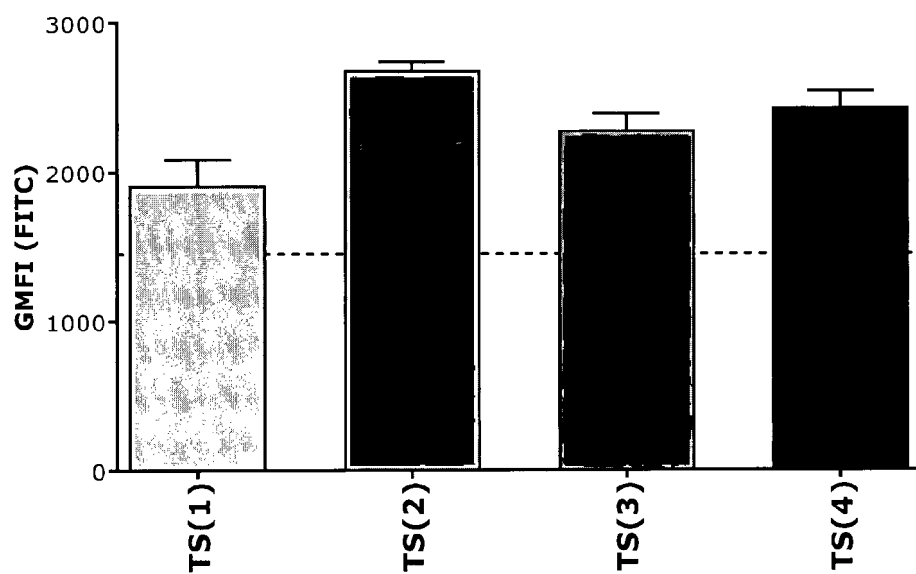
Fig. 19

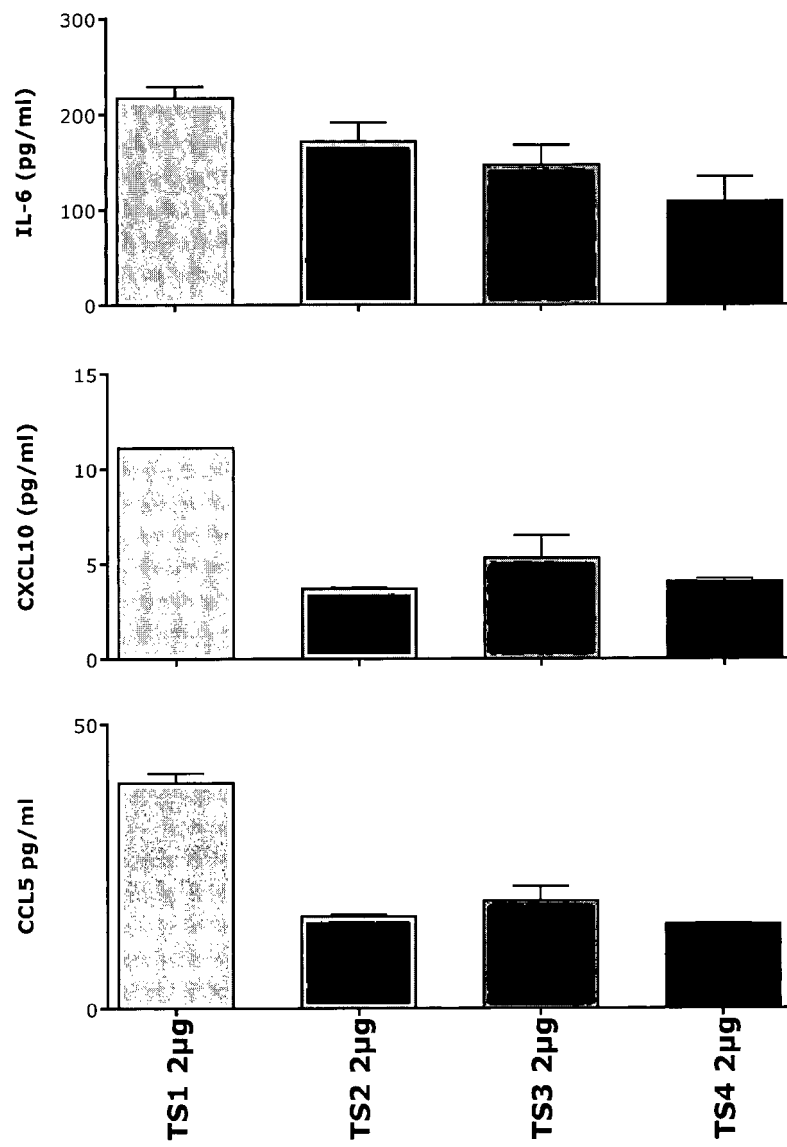
SEQ ID NO. 6:

GGGGCGCUGCCUACGGAGGUGGCAGCCAUCUCCUUCUCGGCAUCAAGCUUACCAUGAAGG
CCAUCCUGGUGGUCCUCCUGUACACCUUCGCCACCGCGAACGCCGACACGCUGUGCAUCG
GCUACCACGCCAACACAGCACCGACACCGUGGACACCGUGCUCGAGAAGAACGUCACGG
UGACCCACUCCGUGAACCUGCUGGAGGACAAGCACAACGGGAAGCUCUGCAAGCUGCGGG
GCGUCGCCCCGUCGACCUCGGGAAGUGCAACAUCGCCGGCUGGAUCCUGGGGAACCCGG
AGUGCGAGAGCCUGUCCACCGCGAGCUCUGGAGCUACAUCUGGAGACCUCAGCUCGG
ACAACGGCACGUGCUACCCCGGCGACUUAUCGACUACGAGGAGCUCGCGAGCAGCUGA
GCUCCGUGAGCUCCUUCGAGCGGUUCGAGAUCUCCCCAAGACCAGCUCUGGGCCAACC
ACGACAGCAACAAGGGGGUCACCGCCGCCUGCCCGCACGCCGGCGCGAAGUCCUUCUACA
AGAACCUGAUCUGGCUCGUGAAGAAGGGGAACAGCUACCCCAAGCUGUCCAAGAGCUACA
UCAACGACAAGGGCAAGGAGGUGCUGGUCCUCUGGGGGAUCCACCACCCAGCACCUCGG
CCGACCAGCAGAGCCUGUACCAGAACGCCGACGCCUACGUGUUCGUGGGCUCAGCCGCU
ACUCCAAGAAGUUAAGCCCCGAGAUCCGCAUCCGGCCGAAGUCCGCGACCAGGAGGGCC
GGAUGAACUACUACUGGACGCUGGUGGAGCCCCGGGGACAAGAUCACCUUCGAGGCGACCG
GCAACCUCGUGGUCCCCCGCUACGCCUUCGCCAUGGAGCGGAACGCCGGGAGCGGCAUCA
UCAUCUCCGACACCCCCGUGCACGACUGCAACACGACCUGCCAGACCCCGAAGGGCGCCA
UCAACACCAGCCUGCCCUUCCAGAACAUCCACCCCAUCACGAUCGGGAAGUGCCCCAAGU
ACGUGAAGUCCACCAAGCUGCGCCUCGCGACCGGCCUGCGGAACGUCCCGAGCAUCCAGU
CCCGCGGGCUGUUCGGCGCAUCGCCGGGUUAUCGAGGGCGGCUGGACCGGGAUGGUGG
ACGGCUGGUACGGGUACCACCACCAGAACGAGCAGGGCAGCGGGUACGCCGCCGACCUCA
AGUCCACGCAGAACGCGAUCGACGAGAUACCAACAAGGUGAACAGCGUCAUCGAGAAGA
UGAACACCCAGUUCACCGCCGUGGGCAAGGAGUUAACCACCUGGAGAAGCGGAUCGAGA
ACCUGAACAAAGAAGGUCGACGACGGCUUCCUCGACAUCUGGACGUACAACGCCGAGCUGC
UGGUGCUCUCCUGGAGAACGAGCGCACCCUGGACUACCACGACUCCAACGUGAAGAACCUCU
ACGAGAAGGUCCGGAGCCAGCUGAAGAACAACGCCAAGGAGAUCCGGAACGGCUGCUUCG
AGUUCUACCACAAGUGCGACAACACCUGCAUGGAGUCCGUGAAGAACGGGACCUACGACU
ACCCCAAGUACAGCGAGGAGGCCAAGCUGAACCGCGAGGAGAUCCGCGGUGAAGCUCG
AGUCCACGCGGAUCUACCAGAUCCUGGCGAUCUACAGCACCGUCGCCAGCUCUCCUGGUGC
UCGUGGUCAGCCUGGGGGCCAUCUCCUUCUGGAUGUGCAGCAACGGCUCUCCUGCAGUGCC
GCAUCUGCAUCUGACCACUAGUGCAUCAUUAUAAAAGCAUCUCAGCCUACCAUGAGAAU
AAGAGAAAAGAAAUGAAGAUCAAUAGCUUAUUAUCUCUUUUUUCUUUUUCGUUGGUGUAA
AGCCAACACCCUGUCUAAAAACAUAUUUUUUAUUAUUUUGCCUCUUUUCUCUGUG
CUUCAAUUAAUAAAAAUGGAAAGAACCUAGAUCUAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUGCAUCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCAAAGGCUCUUUCAGAGCCACCAGAAU

Fig. 20

**Fig. 21**

**Fig. 22**

**Fig. 23**