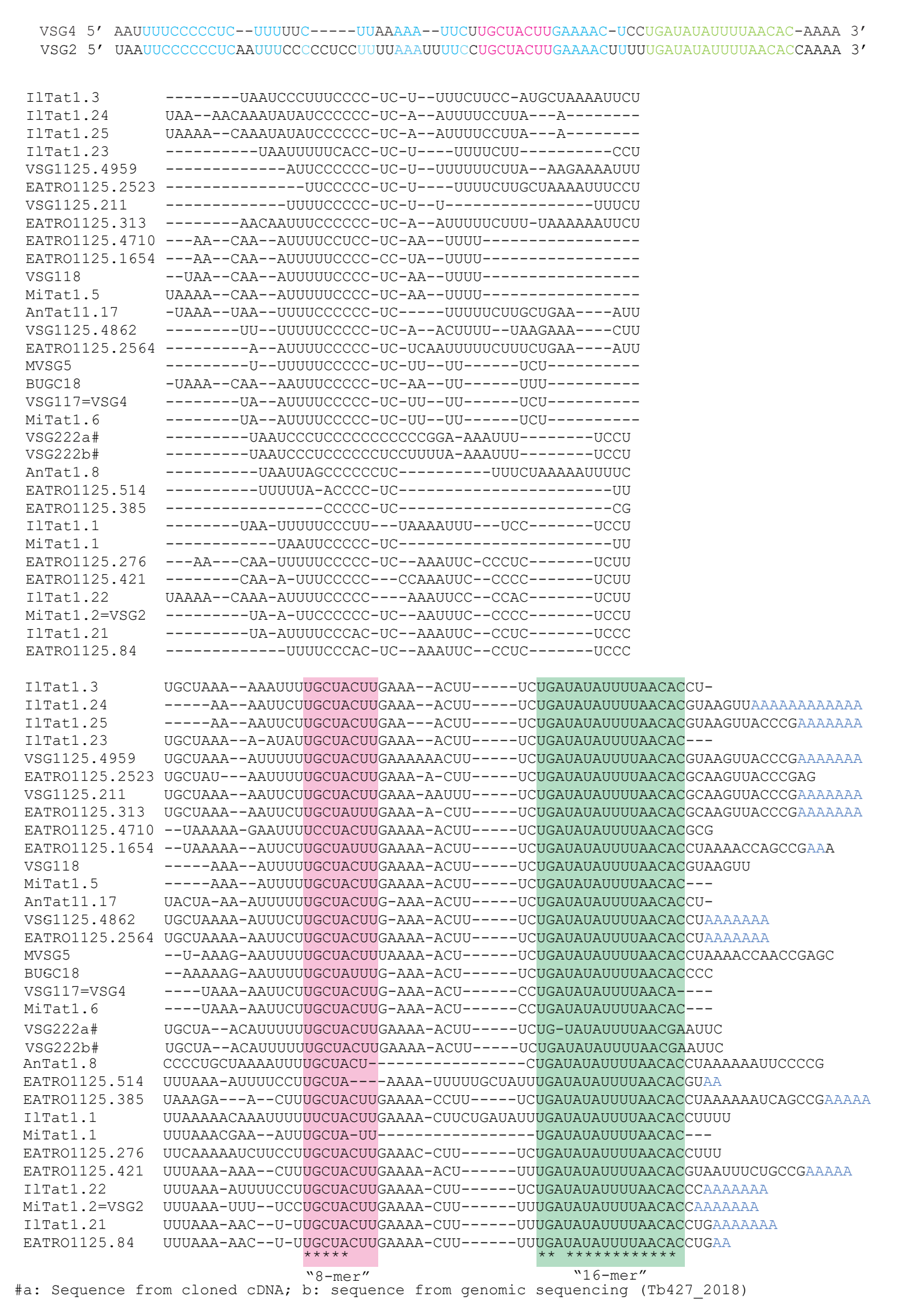
VSG4 5′ AAUUUUCCCCCUC--UUUUUC-----UUAAAAA--UUCUUGCUACUUGAAAAC-UCCUGAUAUAUUUUAACAC-AAAA 3′
VSG2 5′ UAAUUCCCCCCUCAAUUUCCCCCUCCUUUUAAAUUUUCCUGCUACUUGAAAACUUUUUGAUAUAUUUUAACACCAAAA 3′
IlTat1.3 --------UAAUCCCUUUCCCC-UC-U--UUUCUUCC-AUGCUAAAAUUCU
IlTat1.24 UAA--AACAAAUAUAUCCCCCC-UC-A--AUUUUCCUUA---A--------
IlTat1.25 UAAAA--CAAAUAUAUCCCCCC-UC-A--AUUUUCCUUA---A--------
IlTat1.23 ----------UAAUUUUUCACC-UC-U----UUUUCUU----------CCU
VSG1125.4959 -------------AUUCCCCCC-UC-U--UUUUUUCUUA--AAGAAAAUUU
EATRO1125.2523 ---------------UUCCCCC-UC-U----UUUUCUUGCUAAAAUUUCCU
VSG1125.211 ------------UUUUCCCCC-UC-U--U----------------UUUCU
EATRO1125.313 --------AACAAUUUCCCCCC-UC-A--AUUUUUCUUU-UAAAAAAUUCU
EATRO1125.4710 ---AA--CAA--AUUUUCCUCC-UC-AA--UUUU----------------
EATRO1125.1654 ---AA--CAA--AUUUUUCCCC-CC-UA--UUUU----------------
VSG118 --UAA--CAA--AUUUUUCCCC-UC-AA--UUUU----------------
MiTat1.5 UAAAA--CAA--AUUUUUCCCC-UC-AA--UUUU----------------
AnTat11.17 -UAAA--UAA--UUUUCCCCCC-UC-----UUUUUCUUGCUGAA----AUU
VSG1125.4862 --------UU--UUUUUCCCCC-UC-A--ACUUUU--UAAGAAA----CUU
EATRO1125.2564 ---------A--AUUUUCCCCC-UC-UCAAUUUUUCUUUCUGAA----AUU
MVSG5 ---------U--UUUUUCCCCC-UC-UU--UU------UCU----------
BUGC18 -UAAA--CAA--AAUUUCCCCC-UC-AA--UU------UUU----------
VSG117=VSG4 --------UA--AUUUUCCCCC-UC-UU--UU------UCU----------
MiTat1.6 --------UA--AUUUUCCCCC-UC-UU--UU------UCU----------
VSG222a# ---------UAAUCCCUCCCCCCCCCCCGGA-AAAUUU--------UCCU
VSG222b# ---------UAAUCCCUCCCCCCUCCUUUUA-AAAUUU--------UCCU
AnTat1.8 ----------UAAUUAGCCCCCCUC----------UUUCUAAAAAUUUUC
EATRO1125.514 ----------UUUUUA-ACCCC-UC----------UU
EATRO1125.385 ----------------CCCCC-UC----------CG
IlTat1.1 --------UAA-UUUUUCCCUU---UAAAAUUU---UCC-------UCCU
MiTat1.1 ------------UAAUUCCCCC-UC----------UU
EATRO1125.276 ---AA---CAA-UUUUUCCCCC-UC--AAAUUC-CCCUC-------UCUU
EATRO1125.421 --------CAA-A-UUUCCCCC---CCAAAUUC--CCCC-------UCUU
IlTat1.22 UAAAA--CAAA-AUUUUCCCCC----AAAUUCC--CCAC-------UCUU
MiTat1.2=VSG2 ---------UA-A-UUCCCCCC-UC--AAUUUC--CCCC-------UCCU
IlTat1.21 ---------UA-AUUUUCCCAC-UC--AAAUUC--CCUC-------UCCC
EATRO1125.84 ------------UUUUCCCAC-UC--AAAUUC--CCUC-------UCCC
IlTat1.3 UGCUAAA--AAAUUUUGCUACUUGAAA--ACUU-----UCUGAUAUAUUUUAACACCU-
IlTat1.24 -----AA--AAUUCUUGCUACUUGAAA--ACUU-----UCUGAUAUAUUUUAACACGUAAGUUAAAAAAAAAAAA
IlTat1.25 -----AA--AAUUCUUGCUACUUGAA---ACUU-----UCUGAUAUAUUUUAACACGUAAGUUACCCGAAAAAAA
IlTat1.23 UGCUAAA--A-AUAUUGCUACUUGAAA--ACUU-----UCUGAUAUAUUUUAACAC---
VSG1125.4959 UGCUAAA--AUUUUUUGCUACUUGAAAAAACUU-----UCUGAUAUAUUUUAACACGUAAGUUACCCGAAAAAAA
EATRO1125.2523 UGCUAU---AAUUUUUGCUACUUGAAA-A-CUU-----UCUGAUAUAUUUUAACACGCAAGUUACCCGAG
VSG1125.211 UGCUAAA--AAUUCUUGCUACUUGAAA-AAUUU-----UCUGAUAUAUUUUAACACGCAAGUUACCCGAAAAAAA
EATRO1125.313 UGCUAAA--AAUUCUUGCUAUUUGAAA-A-CUU-----UCUGAUAUAUUUUAACACGCAAGUUACCCGAAAAAAA
EATRO1125.4710 --UAAAAA-GAAUUUUCCUACUUGAAAA-ACUU-----UCUGAUAUAUUUUAACACGCG
EATRO1125.1654 --UAAAAA--AUUCUUGCUAUUUGAAAA-ACUU-----UCUGAUAUAUUUUAACACCUAAAACCAGCCGAAA
VSG118 -----AAA--AUUUUUGCUACUUGAAAA-ACUU-----UCUGAUAUAUUUUAACACGUAAGUU
MiTat1.5 -----AAA--AUUUUUGCUACUUGAAAA-ACUU-----UCUGAUAUAUUUUAACAC---
AnTat11.17 UACUA-AA-AUUUUUUGCUACUUG-AAA-ACUU-----UCUGAUAUAUUUUAACACCU-
VSG1125.4862 UGCUAAAA-AUUUCUUGCUACUUG-AAA-ACUU-----UCUGAUAUAUUUUAACACCUAAAAAAA
EATRO1125.2564 UGCUAAAA-AAUUCUUGCUACUUGAAAA-ACUU-----UCUGAUAUAUUUUAACACCUAAAAAAA
MVSG5 --U-AAAG-AAUUUUUGCUACUUUAAAA-ACU------UCUGAUAUAUUUUAACACCUAAAACCAACCGAGC
BUGC18 --AAAAAG-AAUUUUUGCUAUUUG-AAA-ACU------UCUGAUAUAUUUUAACACCCC
VSG117=VSG4 ----UAAA-AAUUCUUGCUACUUG-AAA-ACU------CCUGAUAUAUUUUAACA----
MiTat1.6 ----UAAA-AAUUCUUGCUACUUG-AAA-ACU------CCUGAUAUAUUUUAACAC---
VSG222a# UGCUA--ACAUUUUUUGCUACUUGAAAA-ACUU-----UCUG-UAUAUUUUAACGAAUUC
VSG222b# UGCUA--ACAUUUUUUGCUACUUGAAAA-ACUU-----UCUGAUAUAUUUUAACGAAUUC
AnTat1.8 CCCCUGCUAAAAUUUUGCUACU----------CUGAUAUAUUUUAACACCUAAAAAAUUCCCCCG
EATRO1125.514 UUUAAA-AUUUUCCUUGCUA----AAAA-UUUUUGCUAUUUGAUAUAUUUUAACACGUAA
EATRO1125.385 UAAAGA---A--CUUUGCUACUUGAAAA-CCUU-----UCUGAUAUAUUUUAACACCUAAAAAAUCAGCCGAAAAA
IlTat1.1 UUAAAAACAAAUUUUUUCUACUUGAAAA-CUUCUGAUAUUUGAUAUAUUUUAACACCUUUU
MiTat1.1 UUUAAACGAA--AUUUGCUA-UU----------UGAUAUAUUUUAACAC---
EATRO1125.276 UUCAAAAAUCUUCCUUGCUACUUGAAAC-CUU------UCUGAUAUAUUUUAACACCUUU
EATRO1125.421 UUUAAA-AAA--CUUUGCUACUUGAAAA-ACU------UUUGAUAUAUUUUAACACGUAAUUUCUGCCGAAAAA
IlTat1.22 UUUAAA-AUUUUCCUUGCUACUUGAAAA-CUU------UCUGAUAUAUUUUAACACCCAAAAAAA
MiTat1.2=VSG2 UUUAAA-UUU--UCCUGCUACUUGAAAA-CUU------UUUGAUAUAUUUUAACACCAAAAAAA
IlTat1.21 UUUAAA-AAC--U-UUGCUACUUGAAAA-CUU------UUUGAUAUAUUUUAACACCUGAAAAAAA
EATRO1125.84 UUUAAA-AAC--U-UUGCUACUUGAAAA-CUU------UUUGAUAUAUUUUAACACCUGAA
*****
** ************
“8-mer”
“16-mer”
#a: Sequence from cloned cDNA; b: sequence from genomic sequencing (Tb427_2018)