

1
βββββ
αααααααααααα
βββ

M. tuberculosis (1) -----MTEHLDVVIVGAGISGVSAAWHLQDRCPKSYA
R. rhodochrous (1) MNGQHPRSVVTAPDATTGTTSYDVVVVVGAGIAGLYAIHRFRSQ--GLTVR
Acinetobacter sp. (1) -----MSQKMDFDAIVIGGGFGGLYAVKKLRDEL-ELKVQ

βββ
100

M. tuberculosis (34) ILEKRESMGGTWDLF¹FRYPGIRSDSDMY----TLGFRFRPWTGRQAIADG
R. rhodochrous (49) AFEAAAGVGVWYWNRYPGARCDVESIDYSYSFSPLEQEWNWSEKYATQ
Acinetobacter sp. (35) AFDKATDVAGT²WYWNRYPSALTDTE³THLYCYSWDKELQSLKIKKYVQG

101
150

M. tuberculosis (79) KPIL⁴EYVKSTAA⁵MYGIDRHIRFHHKVISADWSTAENRWTVHI-QSHGTL⁶S
R. rhodochrous (99) PEILAYLEHVADRFDLRRDIRFDTRVTS⁷AVLDEGLRWTVRT----DRGD
Acinetobacter sp. (85) PDV⁸RKYLQOVAEKHDLKKS⁹YQFN¹⁰TAVQSAHYNEADALWEVTT---EYGD

151
200

M. tuberculosis (128) ALTCEFLFLCSGYNYDEGYSPRFAGSEDFVGPIIHPQHWPED-LDYDAK
R. rhodochrous (145) EVSARFLVVAAGPLSNAN--TPAFDGLDRFTGDIVHTARWPHDGVDF¹¹TGK
Acinetobacter sp. (131) KYTARFLIT¹²ALGLLSAPN--LPNIKGINQFKGELHHTSRWPD¹³-VSFEGK

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αααααααααααα
βββββ
250

M. tuberculosis (177) NIVVIGSGAT¹⁴AVTLVPALADSGAKHVTMLQRSPTYIVSQ---PDRD---
R. rhodochrous (193) RVGVIGTGS¹⁵SGIQSIP¹⁶IAEQ-AEQLFV¹⁷QRSANYSIPAGNVPLDDATR
Acinetobacter sp. (178) RVGVIGTGS¹⁸TGVQVITAVAPL-AKHLTV¹⁹QRS²⁰AQY²¹SVPIGNDPLSEEDV

251
300

M. tuberculosis (220) -----GIAEKLNRWLPETMAYTAVRW-KNVL²²RQAAVYS
R. rhodochrous (241) AEQKANYAERRRLSRESGGSPHRPHKSALEVSE²³EER-RAVYEERWKL²⁴G
Acinetobacter sp. (226) KKI²⁵KDNYDKIWDGVWNSALAFGLNESTV²⁶PAMSVSAEER-KAVFEKAWQ²⁷TG

301
350

M. tuberculosis (252) A----CQKW²⁸PRMRKMFLSLIQRQLPEG---YDVRKHFGPHYN²⁹PWD--
R. rhodochrous (290) G--VLFSKAFPDQLTDPAA³⁰NDTARAFWEEKIRAVVDDPAVAEL³¹LPKDHA
Acinetobacter sp. (275) GGRFRMFET³²FGDIATNMEANIEAQNFIK³³GKIAEIVKDP³⁴IAQKLM³⁵PQD--

351
400

M. tuberculosis (291) ---QRLCLVPNGD-LFRAIRHGKVEV³⁶VTDTIERFTATGIRLNSGRELPAD
R. rhodochrous (338) IGAKRIVTDSGYYETYN³⁷RDNVELVDLRSTPIVGMDET³⁸GIVT-TGAHYDLD
Acinetobacter sp. (323) LYAKRPLCD³⁹SGYYNTFN⁴⁰RDNVRL⁴¹EDVKANPIVEITENG⁴²VKLENGDFVELD

401
450

M. tuberculosis (337) I⁴³IITATGLNLQ⁴⁴LFGGATATIDGQQ-----VDIT⁴⁵TMAYKGMMLSGIP⁴⁶NM
R. rhodochrous (387) MIVL⁴⁷ATGFDA⁴⁸MTGSLDKLEIVGRGRTL⁴⁹KETWAAGPRTYLGLGIDG⁵⁰PNF
Acinetobacter sp. (373) MLI⁵¹CATGFDA⁵²VDGNYVRMDIQK⁵³NGLAMKDYWKEG⁵⁴PSSYMGVTVNNY⁵⁵PNM

451
500

M. tuberculosis (381) AYT⁵⁶VG⁵⁷YTN---ASWTLKADLVSEFV⁵⁸CRL⁵⁹LLY⁶⁰MDDNGFD⁶¹TVVVE-RPGSD
R. rhodochrous (437) FNL⁶²TG⁶³PGSPSVLANMVLHSELHVD⁶⁴WVADAIAYLDARGAAGIEGT-PEAVA
Acinetobacter sp. (423) FMV⁶⁵LGPNGP--FTNL⁶⁶P⁶⁷PSIESQ⁶⁸VEWISDTIQ⁶⁹YTVENNVESIEAT-KEAEE