

Table S2. HI and MI nsNPs in DAP-MOA related targets

DAP-MOA related nsSNPs 1C vs 1A				
HI nsSNPs in MP cluster (MP, LP, T)	HI nsSNPs in TR cluster	MI nsSNPs in MP cluster (MP, LP, T)	MI nsSNPs in DAP-MOA related Protein cluster	MI nsSNPs in Transcriptional Regulator cluster
SAOUHSC_00062 → *291E SAOUHSC_00968 → L137* SAOUHSC_00971 → Y20fs SAOUHSC_01047 → F48fs SAOUHSC_01084 → I150fs SAOUHSC_01085(<i>isdE</i>) → E232fs SAOUHSC_01419(<i>arlS</i>) → S434* SAOUHSC_02009 → T395fs SAOUHSC_02661 → G6fs	SAOUHSC_00515(σ 70- <i>r2</i>) → L48* SAOUHSC_00673 → Y285* SAOUHSC_01473(<i>birA</i>) → R255* SAOUHSC_02301(<i>rsbU</i>) → R260fs, F6fs SAOUHSC_02566(<i>sarR</i>) → R82*	SAOUHSC_00052 → V18I, K145As, D170G, S217T SAOUHSC_00053 → E110A, E143D, D164G, Q185K, T217S, K229E SAOUHSC_00055 → R84P SAOUHSC_00272 → N8T SAOUHSC_00405 → I61L, FV95YM, VY99AH, DISK102EFNE, H107Q, E240D SAOUHSC_00420 → K428T SAOUHSC_00433 → Q60K SAOUHSC_00584 → G363A SAOUHSC_00587 → V82A SAOUHSC_00591 → R151G SAOUHSC_00599 → K10T, F56S, N67K SAOUHSC_00602 → V146F SAOUHSC_00618 → K206N, C106W SAOUHSC_00683 → M210I, I175L SAOUHSC_00697 → L71R SAOUHSC_00868 → M18V, K28N SAOUHSC_00925 → S95A SAOUHSC_00970 → N94K SAOUHSC_01025 → K6Q, L378V SAOUHSC_01051 → H139Y SAOUHSC_01068 → V15F, V17I SAOUHSC_01082(<i>isdC</i>) → L34S SAOUHSC_01122 → T27P SAOUHSC_01131 → K66N SAOUHSC_01213 → L526F, F521V SAOUHSC_01310 → K147Q SAOUHSC_01315 → I44L SAOUHSC_01358 → S138Y, S150A SAOUHSC_01359(<i>mprF</i>) → S295L SAOUHSC_01380(<i>nikB</i>) → M12I SAOUHSC_01381 → F50V SAOUHSC_01389(<i>pstS</i>) → E178D SAOUHSC_01407 → F102V SAOUHSC_01419(<i>arlS</i>) → S434*, L286F SAOUHSC_01628 → F35V SAOUHSC_01639 → I100L, I71L SAOUHSC_01704 → F25L SAOUHSC_01758 → S101A SAOUHSC_01761 → S152P, E134D, R2G SAOUHSC_01851 → L26P SAOUHSC_01854 → P201Q, E125A SAOUHSC_01966 → I287M SAOUHSC_01971 → H50Q SAOUHSC_02001 → I136S, I136M SAOUHSC_02008 → N11T SAOUHSC_02009 → N18T SAOUHSC_02148 → W149S SAOUHSC_02153 → I206T SAOUHSC_02247 → E241A, S326F SAOUHSC_02257 → D155E SAOUHSC_02261(<i>agrB</i>) → I110T SAOUHSC_02264(<i>agrC</i>) → I63T, I155L SAOUHSC_02314(<i>kdpD</i>) → Q490P SAOUHSC_02390 → Q261P SAOUHSC_02419(<i>sepA</i>) → R156S SAOUHSC_02420 → S256M SAOUHSC_02459 → F23C SAOUHSC_02470 → V78F, I45M, I30M SAOUHSC_02588 → Q109R, T110S SAOUHSC_02633 → N2T SAOUHSC_02650 → T203P SAOUHSC_02687 → N128I SAOUHSC_02761 → N163I SAOUHSC_02783 → F165C SAOUHSC_02788 → E79G SAOUHSC_02789 → S12T	SAOUHSC_00243(NADH dehydrogenase subunit) → I27M, K31R, Q44K, E51K SAOUHSC_00427(<i>sle1</i>) → G88S, A143S, G155S, K181N, S184R, A212T, S225N SAOUHSC_00788 → I314R SAOUHSC_00870(<i>dltB</i>) → T140P, K317N SAOUHSC_00953(<i>ugtP</i>) → N17I SAOUHSC_00998(<i>fmtA</i>) → A23G, I25V, H34N, DP37EP, E49A, E58G, Va60GE, S85N, I94V, P151S, L155I, K194R, T248S, QP254KS, K257R, L260F, A265S, R275K, I278V, D280E, L288I, K324Q, A335V, K368Q SAOUHSC_01063 → I7L SAOUHSC_01082(<i>isdC</i>) → T11M, L34S, N89K, T172A SAOUHSC_01162(<i>lspA</i>) → F100C, I111V SAOUHSC_01310 → R2Q, V132I, D133E, D140N, K147Q, K170Q, H174K, N197K, V300E, GP308KS, L310F, S313A, V455R, K469E, S478T SAOUHSC_01359(<i>mprF</i>) → A26V, D160N, V171A, F174L, F194Y, A223V, S295L, I371L, F400Y, L406I, T409I, F413L, A426V, V430A, V446I, I451L, L459I, V464Ie, L473F, I478V, R489K, L494I, I503V, I505A, K522N, D525E, N531D, L575I, I660V, E692Q, E710N SAOUHSC_02979 → S12T, N47T, I60T, K65N, F78V, P191S, E376K, A608S	SAOUHSC_00515(σ 70- <i>r2</i>) → E71K, F118Y, C135R SAOUHSC_00525(<i>rpoC</i>) → V487A, I855V SAOUHSC_00674(<i>sarX</i>) → L15V, H65Y, N122D, SAOUHSC_01419(<i>arlS</i>) → Q329H, L286F, E121D SAOUHSC_02264(<i>agrC</i>) → V26G, I63T, I155L, Y235F, SS304TR, T329S SAOUHSC_02314(<i>kdpD</i>) → P67L, T70A, L147R, KN277IS, W336R, T342K, K356N, F434Y, Q490P, S492A, N759D, Y800D, E817K, Y877D, V885I SAOUHSC_02390 → A45V, V60G, V69L, I165V, I194V, Q261P, F279Y
SNPs reversion and putative gain-in effectiveness in 1C vs 1A				
SAOUHSC_00028 → fs11L SAOUHSC_00124 → *236S SAOUHSC_00587 → fs140S SAOUHSC_00646 → *11L SAOUHSC_00660 → *320L SAOUHSC_00762 → *294L SAOUHSC_01113 → fs33F SAOUHSC_01489 → fs44K SAOUHSC_02151 → fs245D SAOUHSC_02153 → fs33D SAOUHSC_02312(<i>kdpA</i>) → *15Y SAOUHSC_02777 → *33E SAOUHSC_02818 → fs277I SAOUHSC_03000 → *20L				

DAP-MOA related nsSNPs 3B vs 3A				
HI nsSNPs in MP cluster (MP, LP, T)	HI nsSNPs in TR cluster	MI nsSNPs in MP cluster (MP, LP, T)	MI nsSNPs in DAP-MOA related Protein cluster	MI nsSNPs in Transcriptional Regulator cluster
SAOUHSC_00672 → R188* SAOUHSC_00916 → Y133* SAOUHSC_01402(<i>msa</i>) → F58fs	SAOUHSC_00913 → *290K SAOUHSC_01402(<i>msa</i>) → F58fs SAOUHSC_02264(<i>agrC</i>) → L30*	SAOUHSC_00133 → D197V SAOUHSC_00402 → G100E, H120Y, SAOUHSC_00405 → F139L SAOUHSC_00428 → F62L SAOUHSC_00585 → F68L, E69G SAOUHSC_00586 → L81R, Y120S SAOUHSC_00588 → R15K, I140L SAOUHSC_00599 → F153I SAOUHSC_00618 → Y86S SAOUHSC_00691(<i>uptP</i>) → K289N SAOUHSC_00808 → R128S, K121Q, S51R, E48D, H32Q SAOUHSC_00810 → I44L SAOUHSC_00916 → Y11S, K61Q A114T, I144L, L208F, K255E SAOUHSC_00931 → I211S SAOUHSC_00968 → D34N, K50E K183R, W215S SAOUHSC_00970 → D6E SAOUHSC_01084 → K155N SAOUHSC_01113 → S79R SAOUHSC_01122 → T31P SAOUHSC_01162(<i>lspA</i>) → F66V, F66C SAOUHSC_01275 → E269A SAOUHSC_01312 → I13R, L33S SAOUHSC_01358 → N127H SAOUHSC_01377(<i>nikE</i>) → F210L SAOUHSC_01381 → F54V SAOUHSC_01382 → L10V SAOUHSC_01456 → L435V SAOUHSC_01462(<i>gpsB</i>) → F112S, N81K, N81T SAOUHSC_01484 → S6L SAOUHSC_01505 → I165M SAOUHSC_01639 → K94N SAOUHSC_01854 → E252K, A229E SAOUHSC_02247 → Y9S SAOUHSC_02588 → Y159F SAOUHSC_02668 → K47N SAOUHSC_02796 → M22L, I11S SAOUHSC_A02795 → H18R SAOUHSC_A02856 → T22P	SAOUHSC_01063 → K2E SAOUHSC_01359(<i>mprF</i>) → W424R	SAOUHSC_00021(<i>walk</i>) → A189D SAOUHSC_00524(<i>rpoB</i>) → H434Y, H459Y SAOUHSC_00664(<i>grax</i>) → D95V SAOUHSC_00673 → K319N, E356D SAOUHSC_00915 → D68E, W69G F88C, G91R SAOUHSC_01361(<i>msrR</i>) → L42V SAOUHSC_01402(<i>msa</i>) → Y67D, F47L SAOUHSC_02264(<i>agrC</i>) → K121T SAOUHSC_02265(<i>agrA</i>) → A143T SAOUHSC_02301(<i>rsbU</i>) → P230Q SAOUHSC_02566(<i>sarR</i>) → P62T SAOUHSC_02800(<i>sarU</i>) → R243G
SNPs reversion and putative gain in effectiveness in 3B strain vs 3A				
SAOUHSC_00091 → *104Y SAOUHSC_00172 → *234Y SAOUHSC_00586 → fs50K SAOUHSC_00618 → fs118L SAOUHSC_00668 → *207L SAOUHSC_00731 → fs140Q SAOUHSC_00911 → fs603K, E605* SAOUHSC_00929 → *43E SAOUHSC_00998(<i>fmtA</i>) → fs302I SAOUHSC_01219(<i>lytN</i>) → fs128E SAOUHSC_01238 → Y261* SAOUHSC_01382 → *60L SAOUHSC_00731 → fs140Q SAOUHSC_01423 → K205* SAOUHSC_01427 → fs460E SAOUHSC_01448(<i>norB</i>) → fs258L SAOUHSC_01607 → fs21K SAOUHSC_01739(<i>lytH</i>) → E292* SAOUHSC_01769 → fs273Q SAOUHSC_01902 → fs55I				

Legend: * stop codon; frameshift (fs); Transmembrane Protein (MP), Lipoproteins (LP), Transporters (T), Transcriptional regulators (TR)