

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
AB009866-cds25_at								AB009866-cds25	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA.			
AP001553-cds11_at								AB009866-cds33	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA.			
AB009866-cds50_x_at								AB009866-cds50	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA.			
AB047088-cds7_s_at								AB014438-cds7	Staphylococcus aureus (strain:85/3907) DNA.			
AB033763-cds11_at								AB033763-cds11	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds2_at								AB033763-cds2	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds20_at								AB033763-cds20	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds27_at								AB033763-cds27	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds29_at								AB033763-cds29	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds4_at								AB033763-cds4	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds46_at								AB033763-cds46	Staphylococcus aureus (strain:NCTC10442) DNA			
AB033763-cds8_at								AB033763-cds8	Staphylococcus aureus (strain:NCTC10442) DNA			
AB037671-cds10_at								AB037671-cds10	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds11_at								AB037671-cds11	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds21_at								AB037671-cds21	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds23_at								AB037671-cds23	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds28_at								AB037671-cds28	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds46_at								AB037671-cds46	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds47_at								AB037671-cds47	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds49_at								AB037671-cds49	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds52_at								AB037671-cds52	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds53_at								AB037671-cds53	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds54_at								AB037671-cds54	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds55_at								AB037671-cds55	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds56_at								AB037671-cds56	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds57_at								AB037671-cds57	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds59_at								AB037671-cds59	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds61_at								AB037671-cds61	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds60_at								AB037671-cds60	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds61_at								AB037671-cds61	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds62_at								AB037671-cds62	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds63_at								AB037671-cds63	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds66_at								AB037671-cds66	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds67_at								AB037671-cds67	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds68_at								AB037671-cds68	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds69_at								AB037671-cds69	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds7_at								AB037671-cds7	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds70_at								AB037671-cds70	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds80_at								AB037671-cds80	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds81_at								AB037671-cds81	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds85_at								AB037671-cds85	Staphylococcus aureus (strain:85/2082) DNA.			
AB037671-cds87_at								AB037671-cds87	Staphylococcus aureus (strain:85/2082) DNA.			
AB047089-cds3_x_at								AB047089-cds3	Staphylococcus aureus (strain:85/3907) DNA.			
AB047089-cds4_at								AB047089-cds4	Staphylococcus aureus (strain:85/3907) DNA.			
AF051916-cds2_at								AF051916-cds2	Gene:rep:Product:replication protein Rep			
AF051917-cds10_at								AF051917-cds10	Gene:Product:putative membrane protein;Note:Orf77			
AF051917-cds11_at								AF051917-cds11	Gene:Product:unknown;Note:Orf346			
AF051917-cds12_at								AF051917-cds12	Gene:Product:unknown;Note:Orf109			
AF051917-cds13_at								AF051917-cds13	Gene:Product:unknown;Note:Orf86			
AF051917-cds14_at								AF051917-cds14	Gene:rep:Product:putative replication initiation protein Rep			
AF051917-cds16_at								AF051917-cds16	Gene:Product:membrane protein;Note:Orf248			
AF051917-cds36_at								AF051917-cds36	Gene:Product:unknown;Note:Orf55; possibly truncated by IS257 transposon			
AF051917-cds9_at								AF051917-cds9	Gene:rep(RC):Product:putative replication initiation protein Rep(RC)			
AF051917-cds7_at								AF051917-cds7	Gene:Product:LtrC-like protein;Note:Orf575; similar to Lactococcus lactis pRS01 LtrC			
AF051917-cds9_at								AF051917-cds9	Gene:Product:unknown;Note:Orf90			
AF053140-cds2_at								AF053140-cds2	Gene:sej:Product:enterotoxin J			
AF077865-cds1_at								AF077865-cds1	Gene:sear:Product:unknown			
AF117258-cds1_at								AF117258-cds1	Gene:repE:Product:replication protein RepE;Note:similar to RepE from pAMBeta1			
AF117258-cds2_at								AF117258-cds2	Gene:Product:unknown;Note:OrfA; contains four hydrophobic domains			
AF117258-cds3_at								AF117258-cds3	Gene:res:Product:resolvase;Note:Res; similar to resolvase from pAMBeta1			
AF117259-cds1_at								AF117259-cds1	Gene:repX:Product:replication protein			
AF117259-cds2_at								AF117259-cds2	Gene:Product:unknown;Note:OrfB			
AF147744-cds1_at								AF147744-cds1	Gene:Product:antibiotic structural protein alpha;Note:SacAa			
AF147744-cds2_at								AF147744-cds2	Gene:Product:antibiotic structural protein beta;Note:SacBa			
AF147744-cds3_at								AF147744-cds3	Gene:Product:antibiotic modifying enzyme;Note:SacM1			
AF147744-cds4_at								AF147744-cds4	Gene:Product:transporter;Note:SacT			
AF167161-cds1_at								AF167161-cds1	Gene:Product:unknown;Note:orf1			
AF167161-cds2_at								AF167161-cds2	Gene:Product:unknown;Note:orf2			
WAN014INJ_at								AF167161-cds6	Gene:sin:Product:recombinase			
AF167161-cds7_at								AF167161-cds7	Gene:Product:unknown;Note:orf4			
AF186237-cds1_at								AF186237-cds1	Gene:vgaA variant;Product:ABC protein VgaA variant			
AF203376-cds1_at								AF203376-cds1	Gene:orf245;Product:replication-associated protein;Note:Orf245			
AF203376-cds2_at								AF203376-cds2	Gene:rep:Product:replication initiation protein;Note:Rep			
AF203377-cds1_at								AF203377-cds1	Gene:orf256;Product:replication-associated protein;Note:Orf256			
AF203377-cds2_at								AF203377-cds2	Gene:rep:Product:replication initiation protein;Note:Rep			
AF210055-cds1_at								AF210055-cds1	Gene:agrB;Product:AgrB;Note:processing protein for AgrD			
AF217235-cds18_at								AF217235-cds18	Gene:Product:Orf16			
AF217235-cds19_at								AF217235-cds19	Gene:Product:Orf19			
AF217235-cds20_at								AF217235-cds20	Gene:Product:Orf20			
AF217235-cds21_at								AF217235-cds21	Gene:Product:integrase-like protein			
AF217235-cds6_at								AF217235-cds6	Gene:Product:Orf6			
AF217235-cds8_x_at								AF217235-cds8	Gene:Product:Orf8			
AF217235-cds9_at								AF217235-cds9	Gene:Product:Orf9			
AF288402-cds1-seg1_at								AF288402-cds1-seg1	Gene:Bap;Product:biofilm-associated surface protein			
AF288402-cds1-seg2_at								AF288402-cds1-seg2	Gene:Bap;Product:biofilm-associated surface protein			
AJ243790-cds1_at								AJ132841-cds1	Gene:mapN;Product:MapN protein			
AJ27173-cds1_at								AJ27173-cds1	Gene:Product:ADP-ribosyltransferase;Note:C3-like			
AJ309178-cds1_at								AJ309178-cds1	Gene:coa:Product:coagulase			
AJ309180-cds1_at								AJ309180-cds1	Gene:coa:Product:coagulase			
AJ309181-cds1_at								AJ309181-cds1	Gene:coa:Product:coagulase			
AJ309182-cds1_at								AJ309182-cds1	Gene:coa:Product:coagulase			
AJ309184-cds1_at								AJ309184-cds1	Gene:coa:Product:coagulase			
AJ309185-cds1_at								AJ309185-cds1	Gene:coa:Product:coagulase			
AJ309190-cds1_at								AJ309190-cds1	Gene:coa:Product:coagulase			
AJ309191-cds1_x_at								AJ309191-cds1	Gene:coa:Product:coagulase			
AJ311975-cds1_at								AJ311975-cds1	Gene:coa:Product:coagulase			
AJ311976-cds1_at								AJ311976-cds1	Gene:coa:Product:coagulase			
AJ311977-cds1_at								AJ311977-cds1	Gene:coa:Product:coagulase			
AP001553-cds10_at								AP001553-cds10	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds12_at								AP001553-cds12	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds19_x_at								AP001553-cds19	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds2_at								AP001553-cds2	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			

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AP001553-cds21_at								AP001553-cds21	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds7_at								AP001553-cds7	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds3_at								AP001553-cds3	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds31_at								AP001553-cds31	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds5_at								AP001553-cds5	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds54_at								AP001553-cds54	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds57_at								AP001553-cds57	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds2_at								AP001553-cds2	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds61_at								AP001553-cds61	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014HKY_at								AP001553-cds66	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds8_at								AP001553-cds8	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds9_at								AP001553-cds9	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AY029184-cds1_at								AY029184-cds1	Staphylococcus aureus.			
D83951-cds2_at								D83951-cds2	Staphylococcus aureus (strain:P83) DNA.			
J01763-cds1_at								J01763-cds1	Plasmid pSN2 DNA.			
J03947-cds1_at								J03947-cds1	S.aureus (strain BM4611) DNA.			
L43062-cds1_at								L43062-cds1	Staphylococcus aureus.			
M17348-cds1_at								M17348-cds1	Plasmid pRW001 DNA.			
M17990-cds1_at								M17990-cds1	Plasmid pE5 DNA.			
M18086-cds1_s_at								M18086-cds1	Staphylococcus aureus (strain SK982) DNA.			
M21319-cds1_at								M21319-cds1	S.aureus (strain FRI918) DNA			
M32470-cds1_at								M32470-cds1	S.aureus (strain 3A1) DNA.			
M32470-cds2_at								M32470-cds2	S.aureus (strain 3A1) DNA.			
M63917-cds1_at								M63917-cds1	S.aureus DNA.			
AF282215-cds2_at									Staphylococcus aureus GENE="agrB"			
AF282215-cds4_at									Staphylococcus aureus Bacteria; GENE="agrC"			
WAN014IY1_at									Staphylococcus epidermidis Bacteria; GENE="trnYE"			
U10927-cds1_at								U10927-cds1	Gene:capA;Product:CapA			
U10927-cds10_at								U10927-cds10	Gene:capJ;Product:CapJ			
U10927-cds11_at								U10927-cds11	Gene:capK;Product:CapK			
U10927-cds12_at								U10927-cds12	Gene:capL;Product:CapL			
U10927-cds13_at								U10927-cds13	Gene:capM;Product:CapM			
U10927-cds2_at								U10927-cds2	Gene:capB;Product:CapB			
U10927-cds3_at								U10927-cds3	Gene:capC;Product:CapC			
U10927-cds4_at								U10927-cds4	Gene:capD;Product:CapD			
U10927-cds5_at								U10927-cds5	Gene:capE;Product:CapE			
U10927-cds6_at								U10927-cds6	Gene:capF;Product:CapF			
U10927-cds7_at								U10927-cds7	Gene:capG;Product:CapG			
U10927-cds8_at								U10927-cds8	Gene:capH;Product:CapH			
U10927-cds9_at								U10927-cds9	Gene:capI;Product:CapI			
U19459-cds1_at								U19459-cds1	Gene:vat B;Product:VAT B;Note:acetyltransferase			
U31979-cds4_at								U31979-cds4	Gene:aroB;Product:5-dehydroquinate synthase;Note:5-dehydroquinate hydrolyase			
U35036-cds4_at								U35036-cds4	Gene:pre;Product:Pre protein			
U38429-cds3_at								U38429-cds3	Gene:pre;Product:recombination protein			
U50077-cds2_x_at								U50077-cds2	Staphylococcus aureus strain=SA2. Gene:qacC'			
U73025-cds1_at								U73025-cds1	Gene:;Product:unknown;Note:orfX			
U73026-cds1_at								U73026-cds1	Gene:saI4;Product:Note streptothricine-acetyl-transferase			
U73027-cds1_at								U73027-cds1	Gene:;Product:unknown;Note:orfZ;pep			
U81980-cds2_at								U81980-cds2	Gene:qac;Product:			
U82085-cds1_at								U82085-cds1	Gene:vgAB;Product:pristinamycin resistance protein VgAB			
U93688-cds10_at								U93688-cds10	Gene:;Product:Note:orf10			
U93688-cds12_at								U93688-cds12	Gene:;Product:Note:orf12			
WAN014HN5_at								U93688-cds14	Gene:;Product:Note:orf14			
U93688-cds15_at								U93688-cds15	Gene:;Product:orf15			
U93688-cds8_at								U93688-cds8	Gene:;Product:Note:orf8			
U93688-cds9_at								U93688-cds9	Gene:;Product:Note:orf9			
WAN014HMD_at								U96609-cds1	Gene:rep;Product:replication protein;Note:REP			
WAN014HME_at								U96609-cds2	Gene:;Product:Note:ORF64			
WAN014HMH_at								X02166-cds1	Gene:;Product:			
WAN014HMI_s_at								X02166-cds4	Gene:;Product:Note:pot. reading-frame A (aa 1-315)			
WAN014HMM_at								X06627-cds1	Gene:;Product:ORF (rx)			
WAN014HNB_at								X12831-cds1	Gene:;Product:Note:ORF 2 (AA 1 - 236)			
WAN014HMW_at								X59477-cds1	Gene:mupirocin resistance gene			
WAN014A7M-seg2_at												
WAN014A7O-seg2_at	SA2150				SAV2160	MW2086						
WAN014A81-5_at	SA0015	SA0014	SAR0015	SAS0015	SAV0015	MW0015	rplI					
WAN014FRL_at												
WAN014FRZ_at												
WAN014FS4_at												
WAN014FUK_at		SAV085										
WAN014FWO_at												
WAN014G0E_at												
WAN014G0I_at												
WAN014G0J_at												
WAN014GF2_at												
WAN014GFJ_at												
WAN014GFK_at												
WAN014GGS5_at												
WAN014GJX_at												
WAN014GMK_at												
WAN014GMM_at												
WAN014GMN_at												
WAN014GPE_at												
WAN014GSD_at												
WAN014GT2_at												
WAN014GWJ_at												
WAN014H0X_at												
WAN014H0Y_at												
WAN014HP4_at												
WAN014HPV_at												
WAN014HX2_at												
WAN014HXR_at												
WAN014HZ3_at												
WAN014HZ6_at												
WAN014HZ7_at												
WAN014HZ8_at												
WAN014HZ9_at												
WAN014I7K-seg2_at	SA1472				SAV1435	MW1324	ebh					
WAN014ILF_at												
WAN014ILY_x_at												
WAN014INS_at												
WAN014IOB_at												

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WANO14HXE_at			SAR1892							hyaluronate lyase precursor 1	Cellular processes	Pathogenesis	
WANO14I7K-seg3_at	SA1472		SAR1447		SAV1434					pathogenicity protein, putative	Cellular processes	Pathogenesis	
WANO14I7K-seg3_at			SAR0845							extracellular matrix and plasma binding protein	Cellular processes	Pathogenesis	
WANO14IP3_at	SA1865		SAR1902							serine protease SPIE	Cellular processes	Pathogenesis	
WANO14IPH_at			SAR2125	SAS1943		MW1962				accessory gene regulator protein C	Cellular processes	Pathogenesis	
WANO14IQ0_at		SA1842			SAV2036					accessory gene regulator B	Cellular processes	Pathogenesis	
WANO14IQ1_at			SAR2123	SAS1941		MW1960				accessory gene regulator protein B	Cellular processes	Pathogenesis	
WANO14IAT_at			SAR1525	SAS0926		MW1408				virulence-associated protein E	Cellular processes	Pathogenesis	
WANO14ITP_s_at			SAR0114							immunoglobulin G binding protein A precursor	Cellular processes	Pathogenesis	
WANO14IUU_at	SA2194									hyaluronate lyase	Cellular processes	Pathogenesis	
WANO14IUV_at		SA2003			SAV2202					hyaluronate lyase precursor	Cellular processes	Pathogenesis	
WANO14IWK_at	SA0209									coagulase	Cellular processes	Pathogenesis	
WANO14IWX_at		SA0566								AggR protein [imported]-related protein	Cellular processes	Pathogenesis	
WANO14IXB_at	SA0895									pathogenicity island, ORF16	Cellular processes	Pathogenesis	
WANO14IXB_at			SAR0114	SAS0085		MW0084				immunoglobulin G binding protein A precursor	Cellular processes	Pathogenesis	
WANO14IXB_at					SAV2038					accessory gene regulator protein C	Cellular processes	Pathogenesis	
WANO14CAZ2_at		SA1843		SAS1881		MW1898				bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA.	Cellular processes	Toxin production and resistance	
WANO14GLH_at			SAR1916		SAV1824					AB009866-cds12	Cellular processes	Toxin production and resistance	
WANO14HHY_at			SAR0845							AB010487-cds1	Gene:seg2:Product:enterotoxin type Gv	Cellular processes	Toxin production and resistance
WANO14HIS_at			SAR0425							AF094826-cds1	Gene:set2:Product:exotoxin 2	Cellular processes	Toxin production and resistance
WANO14HIT_at			SAR0427							AF094826-cds2	Gene:set3:Product:exotoxin 3	Cellular processes	Toxin production and resistance
WANO14INH_at			SAR0429							AF094826-cds4	Gene:set5:Product:exotoxin 5	Cellular processes	Toxin production and resistance
WANO14INI_at			SAR0431							AF094826-cds5	Gene:set4:Product:exotoxin 4	Cellular processes	Toxin production and resistance
WANO14INI_at					SAV2011					AF217235-cds4	Gene:sen:Product:SEN	Cellular processes	Toxin production and resistance
WANO14IUS_1_s_at		SA1648								AF285760-cds1	Gene:seo:Product:SEO	Cellular processes	Toxin production and resistance
WANO14CAT8_at		SA1647			SAV1829					AF285760-cds2	Gene:sem:Product:SEM	Cellular processes	Toxin production and resistance
WANO14HK3_at		SA1645	SAR1918		SAV1827					Gene:Yen1;Product:YENT1	Cellular processes	Toxin production and resistance	
WANO14HK4_at		SA1644								AF285760-cds4	Gene:Yen2;Product:YENT2	Cellular processes	Toxin production and resistance
WANO14HK5_at		SA1643								AF285760-cds5	Gene:sen:Product:SEN	Cellular processes	Toxin production and resistance
WANO14IRH_at		SAV090	SAR1917		SAV0909					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0909"	Cellular processes	Toxin production and resistance	
WANO14IRH_at										enterotoxin type A, putative	Cellular processes	Toxin production and resistance	
WANO14HGZ_at	SA0907									cell wall hydrolase	Cellular processes	Toxin production and resistance	
WANO14HLT_at		tetM			SAV0398					M11118-cds1	Staphylococcus aureus (strain S6); Gene:Product:enterotoxin B.Note:precursor	Cellular processes	Toxin production and resistance
WANO14HMA_at			SAS0051			MW0051				M21136-cds1	Gene:Product:Note:tetM	Cellular processes	Toxin production and resistance
WANO14HMA_at			SAS1097		SAV1163					U11702-cds1	Gene:seh:Product:enterotoxin H.Note:staphylococcal enterotoxin H	Cellular processes	Toxin production and resistance
WANO14HMA_at										X5185-cds1	Gene:Product:truncated alpha-toxin	Cellular processes	Toxin production and resistance
WANO14H25_at											AlphA-Hemolysin precursor	Cellular processes	Toxin production and resistance
WANO14FS6_at											enterotoxin family protein	Cellular processes	Toxin production and resistance
WANO14FU6_at			SAS0389			MW0387				exotoxin 2	Cellular processes	Toxin production and resistance	
WANO14FUA_at			SAS0396			MW0394				exotoxin 3	Cellular processes	Toxin production and resistance	
WANO14FZO_at			SAS2262			MW2292				macrolide efflux protein, putative	Cellular processes	Toxin production and resistance	
WANO14G21_at	SA0052	SA0382			SAV0422					exotoxin 6	Cellular processes	Toxin production and resistance	
WANO14G16_at										glycosyl transferase, group 1	Cellular processes	Toxin production and resistance	
WANO14GK5_at		SA1761									Cellular processes	Toxin production and resistance	
WANO14GPB_at	SA0061	SA0080		SAS0054	SAV0084	MW0054				Domain of unknown function domain protein	Cellular processes	Toxin production and resistance	
WANO14GTF_at	SA0032	SA0037	SAR0038		SAV0040	MW0030				MacC domain protein	Cellular processes	Toxin production and resistance	
WANO14GHI_at	SA0468									exotoxin 3	Cellular processes	Toxin production and resistance	
WANO14GW8_at	SA0049									Domain of unknown function domain protein	Cellular processes	Toxin production and resistance	
WANO14GWE_at				SAS0387		MW0385				exotoxin 2	Cellular processes	Toxin production and resistance	
WANO14GWN_at	SA0478									exotoxin 3	Cellular processes	Toxin production and resistance	
WANO14HO3_at			SAR1139							exotoxin 1, putative	Cellular processes	Toxin production and resistance	
WANO14HO5_at			SAR1140							exotoxin 3, putative	Cellular processes	Toxin production and resistance	
WANO14HOA_at	SA1043			SAS0971		MW0919				glycosyl transferase, group 1	Cellular processes	Toxin production and resistance	
WANO14HOY_at			SAR0424							exotoxin, putative	Cellular processes	Toxin production and resistance	
WANO14HOZ_at			SAR0435							exotoxin 3, putative	Cellular processes	Toxin production and resistance	
WANO14HSM_at			SAR0690							arsenical resistance operon repressor 1	Cellular processes	Toxin production and resistance	
WANO14HVC_at			SAR2108							Aerolysin-like leukocidin family protein	Cellular processes	Toxin production and resistance	
WANO14IMK_at	SA0474	SA0390		SAS0393	SAV0429	MW0391				exotoxin 4	Cellular processes	Toxin production and resistance	
WANO14ITG_at		SA0032	SAR0032		SAV0034					bleomycin resistance protein	Cellular processes	Toxin production and resistance	
WANO14ITM_at	SA0886		SAS1921			MW1938				staphylococcal enterotoxin	Cellular processes	Toxin production and resistance	
WANO14ITN_at	SA0887		SAS1920			MW1937				staphylococcal extracellular enterotoxin type I	Cellular processes	Toxin production and resistance	
WANO14IHT_at										enterotoxin type c-2 precursor	Cellular processes	Toxin production and resistance	
WANO14ITRZ_at		SA1817								exotoxin 3, putative	Cellular processes	Toxin production and resistance	
WANO14BUE4_at			SAR1141							enterotoxin	Cellular processes	Toxin production and resistance	
WANO14BUE5_at			SAR1920							Multidrug resistance protein A	Cellular processes	Toxin production and resistance	
WANO14BUEX_at			SAR2438	SAS2244	SAV2353	MW2274				Streptomycin 3-adenylyltransferase (AAD(9))	Cellular processes	Toxin production and resistance	
WANO14CBER_s_at	SA2385	SAV091	SAR1736		SAV1656					aminidase	Cellular processes	Other	
WANO14C21_at					SAV0913					acetyltransferase, GNAT family	Central intermediary metabolism	Other	
WANO14CSGL_s_at					SAV027					M18086-cds2	Staphylococcus aureus subsp. aureus Mu50 Bacteria; GENE=="SAV0913"	Staphylococcus aureus (strain SK982) DNA.	
WANO14G6Y_at	SA0576				SAV2213					conserved hypothetical protein	conserved hypothetical protein	conserved hypothetical protein	
WANO14G7W_at	SA1635				SAV1817					conserved hypothetical protein	conserved hypothetical protein	conserved hypothetical protein	
WANO14HUV_at	SA1769	SAR2055			SAV1958					conserved hypothetical protein	conserved hypothetical protein	conserved hypothetical protein	
WANO14HX4_at	SA1772	SAR2059			SAV1961					conserved hypothetical protein	conserved hypothetical protein	conserved hypothetical protein	
WANO14H4Z_at		SA1779	SAR2066		SAV1968					conserved hypothetical protein	conserved hypothetical protein	conserved hypothetical protein	
WANO14I14_at	SA0132					MW0120				replication initiation protein, degenerate	Disrupted reading frame	Disrupted reading frame	
WANO14IXT_at	SA1813									transposase, putative, degenerate	Disrupted reading frame	Disrupted reading frame	
WANO14IXV_at	SA1442									putative restriction enzyme modulator protein	DNA metabolism	Degradation of DNA	
WANO14IHO_T			SAR0088							dnaC	DNA metabolism	DNA replication, recombination, and repair	
WANO14G4F_at					SAV0869					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0869"	DNA metabolism	DNA replication, recombination, and repair	
WANO14IWC_at		SAV000			SAV001					Staphylococcus aureus subsp. aureus GENE=="repA"	DNA metabolism	DNA replication, recombination, and repair	
WANO14GH1_at					SAV034		Human			Staphylococcus aureus subsp. aureus GENE=="SAV034"	DNA metabolism	DNA replication, recombination, and repair	
WANO14FRF_at	SA0042									replication-associated protein	DNA metabolism	DNA replication, recombination, and repair	
WANO14G20_at		SAV078			SAV0783					cassette chromosome recombinase A1	DNA metabolism	DNA replication, recombination, and repair	
WANO14G6V_s_at		SA2010			SAV2209					phage integrase family domain protein	DNA metabolism	DNA replication, recombination, and repair	
WANO14H4K_at	SA1573									RNA-directed DNA polymerase	DNA metabolism	DNA replication, recombination, and repair	
WANO14HLF_at		SA0058	SAR0060		SAV0062					integrase/recombinase, core domain family, authentic frameshift	DNA metabolism	DNA replication, recombination, and repair	
WANO14HLG5_at		SA0057	SAR0059		SAV0061	MW0038				site-specific recombinase	DNA metabolism	DNA replication, recombination, and repair	
WANO14HNK_at		SA0028			SAV0029					site-specific recombinase	DNA metabolism	DNA replication, recombination, and repair	
WANO14HNK_at		SA0029	SAR0031		SAV0031					repB protein	DNA metabolism	DNA replication, recombination, and repair	
WANO14H20_at		SA0027			SAV0028					Plasmid recombination enzyme (Mobilization protein)	DNA metabolism	DNA replication, recombination, and repair	
WANO14I13_at	SA0041									repB protein	DNA metabolism	DNA replication, recombination, and repair	
WANO14I12_at	SA2141									cassette chromosome recombinase B, authentic frameshift	DNA metabolism	DNA replication, recombination, and repair	
WANO14ITE_at			SAR1541	SAS0909		MW1425				site-specific recombinase family protein, degenerate	DNA metabolism	DNA replication, recombination, and repair	
WANO14BQVZ_at										DNA polymerase I, putative	DNA metabolism	DNA replication, recombination, and repair	
WANO14BUTL_at			SAR2460		SAV2371					replication initiation protein	DNA metabolism	DNA replication, recombination, and repair	
WANO14CBG5_at		SA2161		SAS2263	SAV2371	MW2293				attachment to host cells and virulence	DNA metabolism	DNA replication, recombination, and repair	
WANO14FS1_at			SAS0025							type I restriction-modification system restriction subunit	DNA metabolism	Restriction/modification	
WANO14FSJL_at			SAS0026							putative type I restriction enzyme specificity protein	DNA metabolism	Restriction/modification	
WANO14FSK_at			SAS0027							Type I restriction-modification system methyltransferase subunit	DNA metabolism	Restriction/modification	
WANO14FU9_at			SAS0395							type I restriction-modification enzyme, S subunit, EcoA family	DNA metabolism	Restriction/modification	
WANO14GWK_at	SA0477	SA0392			SAV0432					type I restriction-modification system, S subunit, EcoA family	DNA metabolism	Restriction/modification	
WANO14GWM_at			SAR0434							type I restriction-modification enzyme, S subunit, EcoA family	DNA metabolism	Restriction/modification	
WANO14HL1_at		SA1625			SAV1807					type I RUM system specificity subunit	DNA metabolism	Restriction/modification	
WANO14HUB_at			SAR1898							type I restriction-modification enzyme, S subunit, EcoA family	DNA metabolism	Restriction/modification	
WANO14CAIK_at		SA1271	SAR1450	SAS1381	SAV1438	MW1327				threonine dehydratase	Energy metabolism	Amino acids, peptides and amines	
WANO144LN-seg1_s_at			SAR1447							very large surface anchored protein	Energy metabolism	Anaerobic	
WANO14HPS_at			SAR0261							nitric oxide reductase norZ, putative	Energy metabolism	Anaerobic	

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE		GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
							NAME	GenBank ID				
WAN014IQN_at			SAR2490						transcriptional regulator NiRr	Energy metabolism	Anaerobic	
WAN014IQO_at			SAR1826						potential ATP-binding protein	Energy metabolism	Anaerobic	
WAN01BUOQ-seg1_at			SAR1447						very large surface anchored protein	Energy metabolism	Anaerobic	
WAN01BUOQ-seg6_s_at			SAR1447						very large surface anchored protein	Energy metabolism	Anaerobic	
WAN01BUUF_at			SAR2488	SAS2290	SAV2399	MW2321	subunit		assimilatory nitrite reductase	Energy metabolism	Anaerobic	
WAN01CB96_x_at		SA2187	SAR2488	SAS2290	SAV2399	MW2321	subunit		assimilatory nitrite reductase	Energy metabolism	Anaerobic	
WAN014IOV-seg1_at		SA1267	SAR1447		SAV1434				ATP synthase, Delta/Epsilon chain, long alpha-helix domain, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN014IOV-seg2_at		SA1267	SAR1447		SAV1434	MW1324			ATP synthase, Delta/Epsilon chain, long alpha-helix domain, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN014IOX-seg3_at		SA1267	SAR1447		SAV1434	MW1324			ATP synthase, Delta/Epsilon chain, long alpha-helix domain, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN014IUB_at			SAR1561	SAS0892		MW1441			Na/K ATPase, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN01BUOQ-seg3_at			SAR1447		SAV1434				ATP synthase, Delta/Epsilon chain, long alpha-helix domain, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN01BUOQ-seg4_at			SAR1447		SAV1434	MW1324			ATP synthase, Delta/Epsilon chain, long alpha-helix domain, putative	Energy metabolism	ATP-proton motive force interconversion	
WAN014HL6_e_at		SA0077	SAR0079		SAV0081				Protein kinase domain protein	Energy metabolism	Glycolysis/gluconeogenesis	
WAN014HRX_at			SAR1587						PKb family carbohydrate kinase	Energy metabolism	Sugars	
WAN014GZQ_at			SAR2559	SAS2363		MW2396	fabG		3-oxoacyl-(acyl carrier protein) reductase, authentic point mutation	Fatty acid and phospholipid metabolism	Biosynthesis	
WAN014GSU_at		SA0031	SA0036		SAV0039	MW0029			glycerophosphoryl diester phosphodiesterase, putative	Fatty acid and phospholipid metabolism	Degradation	
WAN014HXZ_at			SAR2592						fatty acid desaturase family protein, putative	Fatty acid and phospholipid metabolism	Other	
WAN014GLI_at									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HFR_at				SAS1882		MW1899		AB009866-cds11	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA,	conserved hypothetical protein	Conserved	
AB009866-cds37_x_at								AB009866-cds35	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA,	conserved hypothetical protein	Conserved	
AB009866-cds56_at			SAR1546			MW1430		AB009866-cds37	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA,	conserved hypothetical protein	Conserved	
AB009866-cds56_at				SAS1898		MW1915		AB009866-cds56	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA,	conserved hypothetical protein	Conserved	
WAN014HHN_at				SAS1897		MW1914		AB009866-cds57	bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA,	conserved hypothetical protein	Conserved	
WAN014GZC_at		SA0058	SA0078		SAV0082			AB014440-cds4	Staphylococcus aureus (strain NCTC825) DNA,	conserved hypothetical protein	Conserved	
AB037671-cds30_at			SAR0042					AB037671-cds30	Staphylococcus aureus (strain:85/2082) DNA,	conserved hypothetical protein	Conserved	
WAN014HHB_at			SAR0086					AB047239-cds1	Staphylococcus aureus (strain:ATCC25923) DNA,	conserved hypothetical protein	Conserved	
WAN014HHF_at			SAR0080					AB047239-cds4	Staphylococcus aureus (strain:ATCC25923) DNA,	conserved hypothetical protein	Conserved	
AF217235-cds11_at					SAV2019			AF217235-cds11	Gene:Product:Orf11	conserved hypothetical protein	Conserved	
WAN014HJL_at			SAR0372					AF217235-cds17	Gene:Product:Orf17	conserved hypothetical protein	Conserved	
WAN014INK_at			SAR0380					AF217235-cds7	Gene:Product:Orf7	conserved hypothetical protein	Conserved	
WAN014GQG_at		SA0285	SA0285		SAR0292			AJ271970-cds2	Gene:Product:hypothetical protein>Note:ORFB	conserved hypothetical protein	Conserved	
WAN014G3V_at					SAV0297			SAV0785	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0785"	conserved hypothetical protein	Conserved	
WAN014HCR_at			SAR0383		SAV0801			SAV0801	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0801"	conserved hypothetical protein	Conserved	
WAN014G4I_at					SAV0802			SAV0802	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0802"	conserved hypothetical protein	Conserved	
WAN014GDD_at					SAV0857			SAV0857	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0857"	conserved hypothetical protein	Conserved	
WAN014IS6_at			SAV085		SAV0859			SAV0859	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0859"	conserved hypothetical protein	Conserved	
WAN014IRU_at			SAV088		SAV0889			SAV0889	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0889"	conserved hypothetical protein	Conserved	
WAN014IRC_at			SAV089		SAV0899			SAV0899	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0899"	conserved hypothetical protein	Conserved	
WAN014G4I_at					SAV0916			SAV0916	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0916"	conserved hypothetical protein	Conserved	
WAN014G84_at					SAV1999			SAV1999	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV1999"	conserved hypothetical protein	Conserved	
WAN014GGS_at					SAV002			SAV002	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV002"	conserved hypothetical protein	Conserved	
WAN014GGV_at					SAV010			SAV010	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV010"	conserved hypothetical protein	Conserved	
WAN014Q1_at		SAVP01			SAV018			SAV018	Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV018"	conserved hypothetical protein	Conserved	
WAN014R62_at				SAS0378	SAV019	MW0376		SAV019	Staphylococcus aureus subsp. aureus MW2 GENE=="MW0376"	conserved hypothetical protein	Conserved	
WAN014IQ6_at					SAV019			SAV019	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014IQ9_at					SAV015			SAV015	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014IQ8_at					SAV016			SAV016	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014IQ5_at					SAV022			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FRV_at				SAS0037				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FRX_at				SAS0038				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FS3_at				SAS0044				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FS5_at				SAS0047				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FS6_at				SAS0074				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GSQ_at				SAS0075		MW0074		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FSD_at				SAS0076		MW0075		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FSE_at				SAS0077		MW0076		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FSM_at								SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FSQ_at				SAS0036				SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FTT_at		SA0194		SAS0175	SAV0200	MW0175		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FUV_at				SAS1089		MW1038		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FWW_at				SAS0931		MW1402		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014FY2_at								SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G1D_at					SAV0404			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G1G_at		SA2465		SAS2349	SAV2457	MW2381		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G1H_at					SAV0406			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G1N_at					SAV0414			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G21_at					SAV0784			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G3X_x_at					SAV0788			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G5O_at		SA0440	SA0355	SAS0344	SAV0368	MW0344		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G61_at			SAV198		SAV1989			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G63_at			SA1828	SAR0375	SAV2021			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G66_at			SA1829		SAV2022			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G6W_at			SA2011		SAV2210			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G6X_at			SA2012		SAV2211			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G7X_at			SA1636		SAV1818			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G87_at			SA1834		SAV2027			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G81_at			SA2015		SAV2216			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G9K_at			SA0190	SAS0171	SAV0196	MW0170		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G9L_at			SAV039		SAV0395			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G96_at			SA0196	SAS0177	SAV0202	MW0177		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G99_at			SAV040		SAV0407			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GAA_at			SAV041		SAV0410			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014G87_at			SAV084		SAV0849			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GB2_at			SAV085		SAV0854			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GFH_at			SA2000		SAV2199			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GGE_at		SA0047						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GGY_x_at					SAV021			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GJU_at		SA0053						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GK6_at			SA1787	SAR1538	SAS0912	MW1422		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GKH_at			SA1809					SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GOL_at		SA0287						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GQ4_at		SA0062	SA0081	SAS0055	SAV0085	MW0055		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GQP_at		SA0026	SA0024					SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GQZ_at		SA0340			SAV0866			SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GR5_at		SA0027	SA0025	SAR0026	SAV0026	MW0026		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GRG_s_at		SA0350						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GS6_at		SA0071		SAS0063		MW0063		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GSV_at		SA0073		SAS0065		MW0065		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GV7_at		SA0045						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GVN_at		SA0048						SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GX4_s_at		SA0063	SA0406	SAS0404	SAV0446	MW0402		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014GZX_at		SA0063	SA0082	SAS0056	SAV0086	MW0056		SAV022	Staphylococcus aureus plasmid pSK41	conserved hypothetical protein	Conserved	
WAN014H16_at		SA0065										

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE		GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
							NAME						
WAN014H2J_at		SA1320			SAV1489					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H4O_at	SA1574									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H4I_at	SA1577		SAR1291							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H4W_at	SA0643			SAS0555		MW0551				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H4X_at	SA1579		SAR1293							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H4Y_at		SA0553			SAV0596					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5O_at	SA0644			SAS0556		MW0552				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5C_at	SA0645			SAS0557		MW0553				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H53_at	SA1581		SAR1295							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H54_at	SA0646			SAS0558		MW0554				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H55_at	SA1582		SAR1296							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H57_at	SA1583		SAR1297							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5C_at	SA0649			SA0554						conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5D_at	SA1585		SAR1299							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5E_at	SA0650			SAS0563		MW0558				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5F_at	SA1586		SAR1300							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5G_at	SA0651			SAS0564		MW0559				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5I_at	SA0652			SAS0565		MW0560				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5K_at	SA0653		SAR0603		SAS0566	MW0561				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014H5M_at	SA0654			SAS0567		MW0562				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HL8_at		SA0076	SAR0078		SAV0080					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HO5_at			SAR0365							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HOR_at			SAR0084							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HOU_at			SAR0090							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HP6_at			SAR0715							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HPW_at			SAR0285							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HPX_at			SAR1134							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HPY_at			SAR0286							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HPZ_at			SAR0287							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HQ4_at			SAR0289							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HO6_at			SAR0290							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HQO_at			SAR0379							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HQS_at			SAR0384							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HTW_at			SAR1884							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HU7_at			SAR1897							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HUG_at			SAR0963							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HUT_at		SA1767	SAR2052		SAV1956					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HV4_at		SA1778	SAR2065		SAV1967					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HV9_at			SAR2075							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HVF_at			SAR2113							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HWD_at			SAR1306							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HWE_at			SAR1311							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HXG_at			SAR1896							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HXI_at			SAR1909							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HXK_at			SAR1913							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014HXL_at					SAV1823					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014I23_at	SA2143	SA1957	SAR2240	SAS2053	SAV2152	MW2078				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014I4O_at	SA2196	SA2005	SAR2294		SAV2204					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014I56_at	SA2205									conserved hypothetical protein, degenerate	Hypothetical proteins	Conserved	
WAN014ILA_at	SA2379		SAR2469							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ILX_at	SA0289									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IMS_x_at	SA0358									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IMR_x_at						MW0401				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IMS_at	SA0069			SAS0061		MW0061				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IO8_at			SAR1314							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IOC_at			SAR2470	SAS2273	SAV2383	MW2303				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IOI_at			SAR2568							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IOQ_x_at		SA0364								conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IOU_at	SA1827		SAR0376		SAV0379					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IOV_at	SA2259				SAV2020					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IRZ_at	SA1798									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IS4_at	SA0341									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISE_at			SAR0628							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISG_at	SA0354									bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISH_at	SA0348									bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISP_at	SA0381		SAR1505	SAS0946		MW1388				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISQ_at	SA0380		SAR1506	SAS0945		MW1389				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ISY_at	SA0374		SAR1512	SAS0939		MW1394				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IT4_at	SA0368		SAR1518	SAS0933		MW1400				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IT9_at	SA0363		SAR1523	SAS0928		MW1405				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ITB_at	SA0362		SAR1526	SAS0924		MW1410				bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014ITJ_at	SA0333									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IU9_at			SAR1538	SAS0912		MW1422				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IUA_at	SA0329		SAR1552							bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IUQ_at	SA0330		SAR1551							bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IUT_at	SA0338									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IV2_at		SA0304								conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IVN_at			SAR1324							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IW2_at	SA0051									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IW3_at	SA0349									bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IWQ_at		SAV085			SAV0858					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IWR_at					SAV1490					conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IWZ_at				SAS1430		MW1444				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IXA_at		SA1830								conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IXF_at	SA0336	SAV198								bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IXI_at	SA0355			SAS0917						bacteriophage L54a, conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN014IXQ_at										conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01AT37_at					SAV0883	MW1917				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01A7HG_at										conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BOU8_at	SA0038					MW1377				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BOUE_x_at	SA0044									conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BT2_x_at			SAR0219							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BT7Y_at			SAR0426							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BT8N_at			SAR0451							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BTNH_at			SAR0982							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BTO3_at			SAR1006							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BU5C_at			SAR2259	SAS2069	SAV2167	MW2094				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BURL_at			SAR2392	SAS2200	SAV2308	MW2228				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BUZL_at			SAR2653							conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BV1S_at			SAR2725	SAS2532	SAV2646	MW2567				conserved hypothetical protein	Hypothetical proteins	Conserved	
WAN01BV3G_at			SAR2783	SAS2586a	SAV2703	MW2622				conserved hypothetical protein	Hypothetical proteins	Conserved	

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN01BXOQ_at				SAS0029						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01BYV6_at				SAS1429		MW1443				conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01BYVW_at				SAS2367		MW2400				conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01C1SB_x_at				SAV0883						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01C401_x_at	SAV088			SAV0883						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01C9TR_at	SA0409	SAR0449	SAS0407	SAV0449	MW0405					conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAX9_x_at	SA1782									conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAXO_at	SA1797									conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYE_at	SA1821			SAV0799						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYF_x_at	SA1822	SAR0380		SAV2015						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYG_x_at	SA1823			SAV2016						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYH_s_at	SA1824			SAV2017						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYL_at	SA1826	SAR0377		SAV2019						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN01CAYO_x_at	SA1831			SAV2024						conserved hypothetical protein	Hypothetical proteins	Conserved
WAN014GQO_at	SA0066									conserved domain protein	Hypothetical proteins	Domain
WAN01BQI0_s_at	SA2201									conserved domain protein	Hypothetical proteins	Domain
WAN01BQI1_at	SA2202									conserved domain protein	Hypothetical proteins	Domain
WAN01BQI2_at	SA2211						fnbA	S.aureus fibronectin-binding protein (fnbA) mRNA		conserved domain protein	Hypothetical proteins	Domain
WAN014FRE_at	SA1340	SAR1320								hypothetical protein	Hypothetical proteins	Not Conserved
WAN014FRR_at	SA1348	SAS039	SAR1325		SAV1314					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014FW1_at	SA2336									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G07_at	SA2444									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G0C_at	SA1850	SA1621								hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G35_at	SA2005									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G5M_at	SA2543									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G6D_at	SA2558									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G6E_at	SA2559									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G6I_at	SA2230	SA2009			SAV2208					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G74_x_at	SA2259									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014G8R_at	SA2611									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GAP_at	SA2647	SA2419	SAR2704	SAS2512	SAV2626	MW2546				hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GAW_x_at	SA2420									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GD5_at	SA0462	SA0377	SAR0411		SAV0416					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GDY_at	SA2715	SA2483			SAV2691					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GE6_at	SA2728	SAR2787								hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GE8_at	SA0463	SA0378			SAV0417					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GMA_at	SA0258									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GN4_at	SA0268									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GOT_at	SA0060									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GOZ_at	SA0290									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GSS_at	SA0030	SAR0036								hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GUD_at	SA0406									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GUM_at	SA0035					MW0033				hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GV0_at	SA1156									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GWQ_at	SA1391									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GWW_at	SA0485	SA0404					lplB			hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GVY_at	SA0483									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GX5_at	SA0487									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GX7_at	SA0488	SA0407	SAR0447	SAS0405	SAV0447	MW0403				hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GXC_x_at	SA0493									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014GXX_at	SA0055									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H17_at	SA0133									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H19_at	SA1507	SA1300	SAS1409a	SAV1467	MW1357					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H2A_at	SA1527									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H2E_at	SA1529									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H2K_x_at	SA1532									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H4_at	SA0076	SA0069								hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H4O_at	SA1575		SAR1289							hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H51_at	SA1580		SAR1294							hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H5B_at	SA1584		SAR1298							hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H7O_at	SA0082									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H7U_at	SA0702									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014H8_at	SA1684									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HB8_at	SA0087									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HH5_at	SA0909				SAV0914					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HIO_at	SA0923									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HIU_at	SA1815									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HLI_at	SA0933									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HKB_at	SA0039									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HKK_at	SA1851									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HKN_at	SA1853		SAS1725		MW1743					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HLN_at	SA0109		SAS0099		MW0098					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HOC_at	SA0112									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HO7_at	SA1042	SAR1007	SAS0970		MW0918					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HRW_at	SA1959									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HT8_at	SA0040		SAS0031							hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HV7_at	SA2013		SAS1931		MW1948					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014HYI_at	SA1684									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IG_at	SA1273									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014I54_at	SA2204									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IKC_x_at	SA1341									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IKD_x_at	SA1342									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IML_at	SA0481									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IMN_at	SA0482									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IMP_at	SA0486									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IMQ_x_at	SA0484				MW0401					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IN1_x_at	SA0894			SAV2024						hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IOB_at	SA1174		SAS1097a		MW1045					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IOH_x_at	SA1333	SA1151	SAS1245	SAV1311	MW1193					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IOI_at	SA2496									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IOO_at	SA0450	SAR0397	SAS0356		MW0355					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IRD_at	SA0911									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IUI_at	SA1347									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IUII_at	SA1350	SAS040	SAS1257	SAV1316	MW1204					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IUS_at	SA0489	SA0408	SAR0448	SAS0406	SAV0448	MW0404				hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IUZ_at	SA0219	SAS007	SAS0215	SAV0239	MW0215					hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IVK_at	SA1344		SAR1312							hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IVL_at	SA1339									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IWW_at	SA1528									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IWY_at	SA1533									hypothetical protein	Hypothetical proteins	Not Conserved
WAN014IXL_at	SA0893	SA1832		SAV2025						hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BOU7_at	SA0037				MW0035					hypothetical protein	Hypothetical proteins	Not Conserved

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN01BOUQ_at		SA0056								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BP0A_at		SA0256								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BP0C_at		SA0475								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPFR_at		SA0819								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPTJ_at		SA1318								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPTV_at		SA1330								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPUG_at		SA1343								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPUL_at		SA1356								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BPZ6_at		SA1521								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ9B_at		SA1886								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ9Z_at		SA1910		SAS1774						hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ9B_at		SA2032								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ9E_at		SA2065								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQHM_at		SA2187								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQJG_at		SA2254								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQMO_at		SA2370								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ07_at		SA2497								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BQ0K_at		SA2510								hypothetical protein	Hypothetical proteins	Not Conserved
WAN01BT7O_at				SAR0414						hypothetical protein	Hypothetical proteins	Not Conserved
WAN014KXZ_at		SA0764								Tn554, transposase C	Mobile and extrachromosomal element functi	
WAN01CASJ_s_at		SA1622								transposase, degenerate	Mobile and extrachromosomal element functi	
WAN014G0Y_at			SAR1562			MW1442		AB008796-cds3	Staphylococcus aureus (strain:ATCC49775) DNA	integrase	Mobile and extrachromosomal element functi	Prophage functions
AF217235-cds5_at			SAR0382	SAS1932	SAV0800	MW1949	g1p	AF217235-cds5	Gene:Product:orf5>Note:similar to phage terminase small subunit	bacteriophage terminase small subunit	Mobile and extrachromosomal element functi	Prophage functions
WAN01BUIE_at			SAR2071					AP001553-cds35	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA	hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014IRY_at		SAV088			SAV0885		g1p		Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0885""	small terminase	Mobile and extrachromosomal element functi	Prophage functions
WAN014R0X_at		SAV088			SAV0886				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0886""	phage terminase, large subunit, PBXS family	Mobile and extrachromosomal element functi	Prophage functions
WAN014L3L_at					SAV0887				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0887""	phage portal protein, SPP1 family	Mobile and extrachromosomal element functi	Prophage functions
WAN014IRL_at		SAV090			SAV0887				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0887""	phage uncontracted protein, XkoX family, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN014INB_x_at		SA0905			U93688-cds3				Gene:Product:Note:orf3	pathogenicity island, ORF6	Mobile and extrachromosomal element functi	Prophage functions
WAN014INT_x_at		SA0904			U93688-cds4				Gene:Product:Note:orf4	pathogenicity island, ORF7	Mobile and extrachromosomal element functi	Prophage functions
WAN014IN6_x_at		SA0903			U93688-cds5				Gene:Product:Note:orf5	pathogenicity island, ORF5	Mobile and extrachromosomal element functi	Prophage functions
WAN014HGF_x_at		SA0900			U93688-cds7				Gene:Product:Note:orf7	pathogenicity island, ORF1	Mobile and extrachromosomal element functi	Prophage functions
WAN014FUI_at				SAS0891						prophage L54a, integrase	Mobile and extrachromosomal element functi	Prophage functions
WAN014FUM_at				SAS0900						hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014FWM_at				SAS0899						hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014FWN_at				SAS0901						hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014FWS_at				SAS0922						hypothetical phage protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014G17_at		int. i				SAV0392				integrase homolog	Mobile and extrachromosomal element functi	Prophage functions
WAN014G5Y_at		SAV197				SAV1975				phage integrase family protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014GL3_at			SAR2047							hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014GOA_at			SAR1545							hypothetical phage protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HG9_at		SA0898				SAV0792				pathogenicity island, ORF12	Mobile and extrachromosomal element functi	Prophage functions
WAN014H0H_at			SAR0366							prophage L54a, integrase	Mobile and extrachromosomal element functi	Prophage functions
WAN014HS8_at			SAR0629							phage integrase family protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HUS_at			SAR2051							hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HUY_at			SAR2058		SAV1960					phage head-tail adaptor, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN014HV2_at			SAR2063		SAV1965					phage portal protein, HK97 family	Mobile and extrachromosomal element functi	Prophage functions
WAN014HV3_at			SAR2073		SAV1966					phage terminase, large subunit, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN014HVB_at			SAR2089							hypothetical phage protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HX4_at		SA2702			SAR1557					similar to protein gp35 from Bacteriophage A118	Mobile and extrachromosomal element functi	Prophage functions
WAN014HXS_at		SA1802			SAR2097					hypothetical phage protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HV4_at			SAR2053							hypothetical phage protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014HVF_x_at				SAS0921						hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014IKM_x_at			SAR1522	SAS0929						prophage L54a, transcriptional regulator, RinA family	Mobile and extrachromosomal element functi	Prophage functions
WAN014IL6_x_at					SAV0896					phage protein, HK97 gp10 family	Mobile and extrachromosomal element functi	Prophage functions
WAN014ILZ_at		SA1805	SAR2100							repressor protein, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN014INC_x_at		SA0906	SAR0382	SAS1932	SAV0800	MW1949				terminase small subunit	Mobile and extrachromosomal element functi	Prophage functions
WAN014IDC_at			SAR0382	SAS1932	SAV0800	MW1949	g1p			bacteriophage terminase small subunit	Mobile and extrachromosomal element functi	Prophage functions
WAN014IQS_at		SA0901								pathogenicity island, ORF10	Mobile and extrachromosomal element functi	Prophage functions
WAN014IR3_at			int. i		SAV0847		int			integrase	Mobile and extrachromosomal element functi	Prophage functions
WAN014IVD_at			SAR1524	SAS0927		MW1406				phage protein, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN014IXE_at		SA1835			SAV2028					integrase-like protein	Mobile and extrachromosomal element functi	Prophage functions
WAN014SHF_x_at			SAR1522	SAS0929						prophage L54a, transcriptional regulator, RinA family	Mobile and extrachromosomal element functi	Prophage functions
WAN01ASHH_x_at			SAR1524	SAS0927		MW1406				phage protein, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN01ASHS_x_at				SAS0916						phage conserved hypothetical protein TIGR01671	Mobile and extrachromosomal element functi	Prophage functions
WAN01AT7E_at				SAV0912						holin	Mobile and extrachromosomal element functi	Prophage functions
WAN01AT7V_at				SAV0896						phage protein, HK97 gp10 family	Mobile and extrachromosomal element functi	Prophage functions
WAN01AT7W_x_at				SAV0896						phage protein, HK97 gp10 family	Mobile and extrachromosomal element functi	Prophage functions
WAN01AT73_at				SAV0887						phage portal protein, SPP1 family	Mobile and extrachromosomal element functi	Prophage functions
WAN01A717_x_at			SAR1522	SAS0929						prophage L54a, transcriptional regulator, RinA family	Mobile and extrachromosomal element functi	Prophage functions
WAN01A719_x_at			SAR1524	SAS0927		MW1406				phage protein, putative	Mobile and extrachromosomal element functi	Prophage functions
WAN01BU2W_x_at			SAR1522	SAS0929						prophage L54a, transcriptional regulator, RinA family	Mobile and extrachromosomal element functi	Prophage functions
WAN01BU34_at			SAR1528							hypothetical phage protein-related protein	Mobile and extrachromosomal element functi	Prophage functions
WAN01BU35_at			SAR1529							bacteriophage terminase small subunit	Mobile and extrachromosomal element functi	Prophage functions
WAN01CAYD_at		SA1820	SAR0382		SAV2012		g1p			Transposase B from transposon Tn554	Mobile and extrachromosomal element functi	Transposon functions
WAN01CBET_s_at		SA2387	SAR1738		SAV1658		Tn554	AB037671-cds17	Staphylococcus aureus (strain:85/2082) DNA.	Transposase B from transposon Tn554	Mobile and extrachromosomal element functi	Transposon functions
WAN014IN9_at		SA0763	SAR1738		SAV1658		Tn554	AB037671-cds76	Staphylococcus aureus (strain:85/2082) DNA.	Transposase B from transposon Tn554	Mobile and extrachromosomal element functi	Transposon functions
WAN014IN3_at			SAR0382		SAV1804			AB047239-cds3	Staphylococcus aureus (strain:ATCC25923) DNA.	truncated transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN01CBEU_s_at		SA2388	SAR1739		SAV1659		Tn554	L10909-cds1	Staphylococcus aureus (strain R35) DNA.	Transposase A from transposon Tn554	Mobile and extrachromosomal element functi	Transposon functions
WAN014IQ7_at		SAVP01			SAV0P17		HIN		Staphylococcus aureus Bacteria; Firmicutes; GENE=""res""	resolvase	Mobile and extrachromosomal element functi	Transposon functions
WAN014GGW_at					SAV0P13				Staphylococcus aureus subsp. aureus Mu50 GENE=""truncated-res""	resolvase	Mobile and extrachromosomal element functi	Transposon functions
WAN014G5Z_at		SA1624			SAV1806					Transposase for insertion sequence element	Mobile and extrachromosomal element functi	Transposon functions
WAN014G4C_at					SAV0415					transposase, Mutator family	Mobile and extrachromosomal element functi	Transposon functions
WAN014GFO_at			SA2014		SAV2215					Transposase for insertion sequence element	Mobile and extrachromosomal element functi	Transposon functions
WAN014HNO_at		SA0062			SAV0066		orfB			transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN014HNT_at		SA0063			SAV0067					transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN014HSK_at			SAR0726							IS431mec transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN014H0C_at			SAR0081							transposase, IS3 family	Mobile and extrachromosomal element functi	Transposon functions
WAN014IQR_at			SAR1827							Transposase for transposon Tn552 (ORF 480)	Mobile and extrachromosomal element functi	Transposon functions
WAN014IRC_at		SA0064	SAR0066		SAV0068		pXO1			transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN014IU6_at			SAR2307				ORFB			transposase	Mobile and extrachromosomal element functi	Transposon functions
WAN014IU7_at			SAR0520							tnpA-IS1253-like	Mobile and extrachromosomal element functi	Transposon functions
WAN01BX02_at			SAR1560	SAS0893		MW1440				hypothetical protein	No Data	No Data
WAN01BYP5_at			SAS2107			MW2133				hypothetical protein	No Data	No Data
WAN01BZ3H_at			SAS2579a			MW2614				hypothetical protein	No Data	No Data
WAN014H4S_at		SA1576	SAR1290							traG protein	Other categories	Plasmid functions
WAN014HF0_at		SA0892								Tn557, ORF14	Other categories	Plasmid functions
WAN014H41_at		SA0318				int		M27965-cds2	Bacteriophage L54a DNA.	bacteriophage L54a, integrase	Other categories	Prophage functions
WAN014GOE_at		SA0885				int		U93688-cds17	Staphylococcus aureus.	integrase	Other categories	Prophage functions
WAN014GQL_at		SA0331								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions
WAN014GOM_at		SA0889								gp35, putative	Other categories	Prophage functions
WAN014GQX_at		SA0339								bacteriophage L54a, single-stranded DNA binding protein	Other categories	Prophage functions

Systematic	COL	GENE						GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
		N315	MRSA	MSSA	Mu50	MW2	NAME					
WAN014GR9_at	SA0346								bacteriophage L54a, DNA N-6-adenine-methyltransferase	Other categories	Prophage functions	
WAN014GRW_at	SA0359				SAV0878				bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IL_at	SA0319								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IMA_x_at	SA0353								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IMF_x_at	SA0364		SAR1522	SAS0929					bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IQA_at	SA0328		SAR1549		MW1433				bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IS1_at	SA0344								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IS2_at	SA0343								bacteriophage L54a, DNA8-like helicase family protein	Other categories	Prophage functions	
WAN014IS3_at	SA0342								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IS5_at	SA0335								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IS7_at	SA0325								bacteriophage L54a, antirepressor, putative	Other categories	Prophage functions	
WAN014IS9_at	SA0323								bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISA_at	SA0322								bacteriophage L54a, Cro-related protein	Other categories	Prophage functions	
WAN014ISL_at	SA0388		SAR1498	SAS0953		MW1381			bacteriophage L54a, holin	Other categories	Prophage functions	
WAN014ISK_at	SA0386		SAR1500	SAS0951		MW1383			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISM_at	SA0384		SAR1502	SAS0949		MW1385			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISN_at	SA0383		SAR1503	SAS0948		MW1386			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISQ_at	SA0382		SAR1504	SAS0947		MW1387			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IST_at	SA0378		SAR1508	SAS0943					bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISU_at	SA0377		SAR1509	SAS0942		MW1391			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISX_at	SA0375		SAR1511	SAS0940		MW1393			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014ISZ_at	SA0373		SAR1513	SAS0938		MW1395			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IT0_at	SA0372		SAR1514	SAS0937		MW1396			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IT1_at	SA0371		SAR1515	SAS0936		MW1397			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IT2_at	SA0370		SAR1516	SAS0935		MW1398			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IT3_at	SA0369		SAR1517	SAS0934		MW1399	clpP		bacteriophage L54a, ATP-dependent Clp protease, proteolytic subunit ClpP	Other categories	Prophage functions	
WAN014IT5_at	SA0367								bacteriophage L54a, phage D3 terminase, putative	Other categories	Prophage functions	
WAN014IT6_at	SA0366		SAR1520	SAS0931		MW1402			bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IT8_at	SA0365								bacteriophage L54a, HNH endonuclease family protein	Other categories	Prophage functions	
WAN014ITK_at	SA0327		SAR1550		MW1434				bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IW5_at	SA0326				SAV0856				bacteriophage L54a, hypothetical protein	Other categories	Prophage functions	
WAN014IX3_at	SA0389								bacteriophage L54a, amidase, putative	Other categories	Prophage functions	
WAN014IY2_at	SA0321								bacteriophage L54a, repressor protein	Other categories	Prophage functions	
WAN01BQCT_at	SA0214	SAR0382	SAS1932	SAV0800	MW1949				terminase small subunit	Other categories	Prophage functions	
WAN014GEW_at	SA0464	SA0379		SAV0418					transposase family protein	Other categories	Transposon functions	
WAN014HOK_at	SA0366				MW0034				IS1272, transposase	Other categories	Transposon functions	
WAN014IYC_at	SA1839				MW0122				transposase, IS200 family	Other categories	Transposon functions	
WAN014IT7_at			SAR1022		MW0932			AF309515-cds1	glutathionyl endopeptidase precursor	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN01BV1J_at			SAR2716					AJ249166-cds1	zinc metalloproteinase aureolysin	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN014G4P_at				SAV0892					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0892""	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN014IRT_at	SAV089			SAV0892					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0892""	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN014GLC_at	SA1766			SAV1812	MW1754				M23M37 peptidase domain protein	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN014BQD_x_at	SA1852			SAV1735					serine protease SplD	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN01BUDP_at			SAR1905		SAV1754				peptidase, SprF family	Protein fate	Degradation of proteins, peptides, and glycopeptides	
WAN01BTSN_at			SAR0343						serine protease SplA	Protein fate	Degradation of proteins, peptides, and glycopeptides	
AF001553-cds30_at				SAV0875	MW1419			AP001553-cds30	Sec-independent protein translocase TatC	Protein fate	Protein and peptide secretion and trafficking	
WAN014C9I_at	SA1764		SAS1876	SAV1953	MW1893				phi PVL ORF 52 homologue	Protein fate	Protein folding and stabilization	
WAN01C4UE_at	SAV197			SAV1976					phi PVL ORF 20 and 21 homologue	Protein fate	Protein folding and stabilization	
WAN014G5G_at			SAR0990	SAS0889	SAV1020	MW0901	RF		Staphylococcus aureus subsp. aureus GENE=="SAV1020""	Protein fate	Protein folding and stabilization	
WAN014HPO_at			SAR0228						Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0397""	Protein synthesis	Translation factors	
WAN014G2A_at				SAV0397					putative glutamine amidotransferase class I	Protein synthesis	tRNA aminoacylation	
WAN014G1U_at	SAV085		SAS0897	SAV0851					Helix-turn-helix domain protein	Regulatory functions	DNA interactions	
WAN014G8P_at	SA2610	SA2379	SAR2673	SAS2479	SAV2593	MW2513			Helix-turn-helix domain protein	Regulatory functions	DNA interactions	
WAN014GEA_at	SA2732	SA2495	SAS2588	SAV2705	MW2624				transcriptional regulator, tetR family	Regulatory functions	DNA interactions	
WAN014GOF_at	SA1804		SAR2099						transcriptional regulator, putative	Regulatory functions	DNA interactions	
WAN014GQN_at			SA0890						Helix-turn-helix domain protein	Regulatory functions	DNA interactions	
WAN014H2U_at				SAV0664	MW0064				transcriptional regulator, Cro/C1 family	Regulatory functions	DNA interactions	
WAN014H3G_at	SA0074			SAV0666	MW0066				transcriptional regulator, LysR family	Regulatory functions	DNA interactions	
WAN014HFM_at	SA0891								transcriptional regulator, LysR family	Regulatory functions	DNA interactions	
WAN014HOZ_at			SAR0097						transcriptional regulator, putative	Regulatory functions	DNA interactions	
WAN014HWK_at			SAR1332						transcriptional regulator, TetR family, putative	Regulatory functions	DNA interactions	
WAN014HX5_at			SAR2451						response regulator	Regulatory functions	DNA interactions	
WAN014HYR_at			SAR2593						transcriptional regulator, TetR family, putative	Regulatory functions	DNA interactions	
WAN014ILC_x_at	SA0337		SAS0325	SAV0349	MW0325				transcriptional regulator, GntR family/amino transferase, class I, putative	Regulatory functions	DNA interactions	
WAN01BTSR_x_at			SAR0346						Helix-turn-helix, putative	Regulatory functions	DNA interactions	
WAN01BXBC_x_at			SAS0325	SAV0349	MW0325				transcriptional regulator, Cro/C1 family-related protein	Regulatory functions	DNA interactions	
WAN014HJK_at	SA0041			SAV0044				AB037671-cds29	Helix-turn-helix, putative	Regulatory functions	DNA interactions	
WAN014HJG_at				SAV0031				AF053771-cds1	xylose repressor	Regulatory functions	Other	
WAN014GGM_at				SAV0004					transcriptional regulator qacR	Regulatory functions	Other	
WAN014G3W_at				SAV0004					transcriptional regulator, Cro/C1 family	Regulatory functions	Other	
WAN014G4L_at				SAV0786	MW0747				transcriptional regulator, Cro/C1 family	Regulatory functions	Other	
WAN014G2U_at				SAV0884					transcriptional regulator, Cro/C1 family	Regulatory functions	Other	
WAN014L7_at				SAV0008					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0684""	Regulatory functions	Other	
WAN014A7Y-seg1_at				SAV1998					Staphylococcus aureus subsp. aureus Mu50 GENE=="SAV0008""	Regulatory functions	Other	
WAN014A7Y-seg2_at			SAR2734	SAS2540	SAV2654	MW2575			Gram positive anchor domain protein	Regulatory functions	Other	
WAN014G5T1_at	SA2524		SAS2540	SAV2654	MW2575				repressor homolog	Regulatory functions	Other	
WAN014G5T2_at				SAV2654	MW2575				serine-threonine rich antigen	Regulatory functions	Other	
WAN014G5T3_at				SAV2654	MW2575				serine-threonine rich antigen	Regulatory functions	Other	
WAN014G5T4_at				SAV2654	MW2575				transcriptional regulator, MarR family	Regulatory functions	Other	
WAN014GMD_at	SA1833			SAV2026					transcription activator of competence development and sporula sir	Regulatory functions	Other	
WAN014GMF_at	SAV199			SAV1994					anti repressor	Regulatory functions	Other	
WAN014GTC_at	SA1801		SAR2096						anti repressor	Regulatory functions	Other	
WAN014GT1_at			SAR1029	SAS0991	SAV1056	MW0939			transcriptional regulator	Regulatory functions	Other	
WAN014GT2_at			SAR0040		SAV0042	MW0032	meCR		transcriptional regulator	Regulatory functions	Other	
WAN014HNU_at	SA0039		SAR0069		SAV0071				transcriptional regulator, KdpE	Regulatory functions	Other	
WAN014HNU_at	SA0066		SAR0068		SAV0070				transcription regulator protein kdpE	Regulatory functions	Other	
WAN014IOA_at			SAR1926						signal transduction protein TRAP	Regulatory functions	Other	
WAN01COU3_at			SAR2468	SAS2271	SAV2381	MW2301			transcription regulatory protein	Regulatory functions	Other	
WAN01C8K6_at	SA0079		SAR0099	SAS0059	SAV0083	MW0059			transcription regulatory protein	Regulatory functions	Other	
WAN014H8I_at				SAV0083					Nitrogen regulation protein NIFR3	Regulatory functions	Other	
WAN014HNL_at	SA0033		SAR0033		SAV0035				sensor histidine kinase	Regulatory functions	Protein interactions	
WAN014GK7_at	SA1794								kanamycin nucleotidyltransferase	Transcription	Degradation of RNA	
WAN014FZM_at			SAR1859						RecT protein family	Transcription	Other	
WAN014HSO_at			SAR0692						Sigma-70 region 2 domain protein	Transcription	Transcription factors	
WAN014GLQ_at			SAR0263						Arsenate reductase (Arsenic pump modifier)	Transport and binding proteins	Anions	
WAN014HIR_at			SAR0724					AB037671-cds19	PTS system, IIA component	Transport and binding proteins	Carbohydrates, organic alcohols, and acids	
WAN014IO3_at			SAR0632	SAS0591	SAV0624	MW0587	X93358		Cadmium efflux system accessory protein homolog	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IRV_at	SA0069		SAR0070		SAV0072				Na+/H+ antiporter	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUS_at	SA0070		SAR0071		SAV0073				K+-transporting ATPase, A subunit	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUC_at	SA0071				SAV0074				K+-transporting ATPase, B subunit	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUC_at					SAV0074				K+-transporting ATPase, C subunit	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUC_at			SAR0631	SAS0590	SAV0623	MW0586	ubiquinone		Na+/H+ antiporter	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUC_at			SAR0635	SAS0594	SAV0627	MW0590			Na+/H+ antiporter	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IUC_at			SAR0723						cadmium-translocating P-type ATPase	Transport and binding proteins	Cations and iron carrying compounds	
WAN014IPD_at	SA2291			SAV2503					Staphylococcus aureus subsp. aureus N315 genomic DNA	Transport and binding proteins	Other	
									Fibronectin-binding protein precursor (FNBP)	Transport and binding proteins	Other	

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN0141PF_at		SA2290						SAV2502	Staphylococcus aureus subsp. aureus N315 genomic DNA	fibronectin-binding protein B	Transport and binding proteins	Other
WAN014G4U_at	SA2523								drug transporter, putative	Transport and binding proteins	Other	
WAN014G4U_at	SA00002								tetracycline resistance protein	Transport and binding proteins	Other	
WAN014FT0_at		SA0192		SAS0173	SAV0198	MW0172	tetK		ABC transporter ATP-binding protein	Transport and binding proteins	Unknown substrate	
WAN014FT3_at		SA0197		SAS0178	SAV0203	MW0178	III		ABC transporter ATP-binding protein	Transport and binding proteins	Unknown substrate	
WAN014GRM_at	SA0070			SAS0062		MW0062			permease, putative	Transport and binding proteins	Unknown substrate	
WAN014GV2_at	SA0422	SA0339	SAR0348	SAS0327	SAV0351	MW0327			ABC transporter, ATP-binding protein	Transport and binding proteins	Unknown substrate	
WAN014H01_at			SAR0094						multidrug resistance protein (efflux transporter)	Transport and binding proteins	Unknown substrate	
WAN014HSF_at			SAR0672						ABC transporter, permease protein	Transport and binding proteins	Unknown substrate	
WAN014HXP_at			SAR2544						ABC transporter, ATP-binding protein	Transport and binding proteins	Unknown substrate	
WAN014HYH_at			SAR2452						ABC transporter, ATP-binding protein	Transport and binding proteins	Unknown substrate	
WAN014HY1_at			SAR2453						ABC transporter efflux protein, DrrB family, putative	Transport and binding proteins	Unknown substrate	
WAN014HW1_at		SA2013						SAV2212	transposase, degenerate	transposase, degenerate	transposase, degenerate	
WAN01CASK_X_at		SA1823						SAV1805	transposase, degenerate	transposase, degenerate	transposase, degenerate	
WAN014HH1_at						MW1379			LukS-PV	Unclassified	Role category not yet assigned	
WAN014HH2_at						MW1378			LukF-PV	Unclassified	Role category not yet assigned	
WAN014GL7_at		SAR2048							Staphylococcus aureus (strain:ATCC49775) DNA.	Unclassified	Role category not yet assigned	
WAN014GL7_at									Staphylococcus aureus (strain:ATCC49775) DNA.	Unclassified	Role category not yet assigned	
WAN014GL7_at									Staphylococcus aureus (strain:ATCC49775) DNA.	Unclassified	Role category not yet assigned	
WAN014HTT1_at		SA1964				MW2087			bacteriophage phi PVL (specific_host:Staphylococcus aureus ATCC 49775) proviral DNA.	770RF02	Role category not yet assigned	
WAN014HGI_at		SA0046			SAV2160				FmbB protein	Unclassified	Role category not yet assigned	
WAN014HGJ_at		SA0045	SAR0047		SAV0048				Staphylococcus aureus (strain:85/2082) DNA.	Unclassified	Role category not yet assigned	
WAN014HIX_at		SA0044	SAR0046		SAV0047				Staphylococcus aureus (strain:85/2082) DNA.	Unclassified	Role category not yet assigned	
WAN014HY2_at		SA0043			SAV0046				Staphylococcus aureus (strain:85/2082) DNA.	Unclassified	Role category not yet assigned	
WAN01CASW_s_at		SA0766	SAR1735		SAV1655		ORF2		Staphylococcus aureus (strain:85/2082) DNA.	Unclassified	Role category not yet assigned	
WAN014HL1_at					SAV0302				Gene.qacB:Product:multidrug efflux protein QacB	Antiseptic resistance protein	Role category not yet assigned	
WAN014HIN_at					SAV0303				Gene:Product:delta-orf186;Note:truncated by IS257 insertion	delta-orf186	Role category not yet assigned	
WAN014HJM_at			SAR0385		SAV0303				Gene:Product:Orf3	putative membrane protein	Role category not yet assigned	
WAN01BJUJ_at			SAR2070						AP001553-cds36	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.	770RF031	Role category not yet assigned
WAN014K11_at			SAS1928		SAV0803	MW1945	III		Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0803""	feric hydroxamate receptor 1	Unclassified	Role category not yet assigned
WAN014IS8_at					SAV0855				anti-repressor	Unclassified	Role category not yet assigned	
WAN014G4D_at					SAV0865				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0865""	unnamed protein product: orf36.1	Unclassified	Role category not yet assigned
WAN014G4E_at					SAV0868				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0868""	770RF016	Role category not yet assigned	
WAN014G4H_at					SAV0872				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0872""	770RF028	Role category not yet assigned	
WAN014G4I_at					SAV0890				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0890""	G4H0353p	Role category not yet assigned	
WAN014L11_at					SAV0881				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0881""	770RF031	Role category not yet assigned	
WAN014G4O_at					SAV0890		KSHV		Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0890""	phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014W1_at		SAV089			SAV0893				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0893""	phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014IRS_at		SAV089			SAV0897				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0897""	phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014IRI_at		SAV090			SAV0900				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0900""	unknown phi protein	Unclassified	Role category not yet assigned
WAN014IRO_at		SAV090			SAV0902				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0902""	phi ETA of 54-like protein	Unclassified	Role category not yet assigned
WAN014IRN_at		SAV090			SAV0903				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0903""	phi ETA of 55-like protein	Unclassified	Role category not yet assigned
WAN014G4S_at					SAV0905				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0905""	phiETA ORF57-like protein	Unclassified	Role category not yet assigned
WAN014IRK_at		SAV090			SAV0906				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0906""	phi105 orf 44-like protein	Unclassified	Role category not yet assigned
WAN014GGC_at					SAV0903				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0903""	MobA/MobL family family	Unclassified	Role category not yet assigned
WAN01C5GK_at					SAV0206		M18086-cds3		Staphylococcus aureus (strain SK982) DNA.	Bifunctional AAC/APH [Includes: 6-aminocyclohexyl N-acetyltransferase(EC 2.3	Unclassified	Role category not yet assigned
WAN014G4C_at					SAV0864		SSB		Staphylococcus aureus subsp. GENE=""SAV0864""	Single-strand binding protein 1 (SSB 1) (Helix-destabilizing protein1)	Unclassified	Role category not yet assigned
WAN014GZ2_at					SAV0300		HIN		Staphylococcus aureus subsp. aureus Mu50 GENE=""truncated-res""	Res4	Unclassified	Role category not yet assigned
US3688-cds1_X_at					SAV2010				Gene:Product:Note:orf1	Ear	Unclassified	Role category not yet assigned
WAN01BJUL_at					SAV2011				Gene:Product:Note:binL (AA 1-197)	DNA-invertase	Unclassified	Role category not yet assigned
WAN014A7Q-seg1_at		SA1577	SAR1828		SAV1758				X52734-cds3	fmbB-like protein	Unclassified	Role category not yet assigned
WAN014FS0_at					SAV0043					Far1	Unclassified	Role category not yet assigned
WAN014FSP_at					SAV0034					putative membrane protein	Unclassified	Role category not yet assigned
WAN014FSZ_at		SA0191			SAV0197	MW0171			SA0191/BacG-like protein	Unclassified	Role category not yet assigned	
WAN014FT1_at		SA0193			SAV0196	MW0174			Enterococcus faecalis plasmid pPD1 bacI	Unclassified	Role category not yet assigned	
WAN014FUB_at		SA0394			SAV0434				Gram-positive signal peptide, YSIRK family domain protein	Unclassified	Role category not yet assigned	
WAN014FUC_at					SAV0397	MW0395			Gram-positive signal peptide, YSIRK family domain protein	Unclassified	Role category not yet assigned	
WAN014FY1_at		SA0059	SAR0061		SAV0063				unnamed protein product: ORF13	Unclassified	Role category not yet assigned	
WAN014G1A_at		SAV040			SAV0400		pX02		TN918 ORF14 and to L. monocytogenes P60 protein homolog	Imo111	Unclassified	Role category not yet assigned
WAN014G1B_at		SAV041			SAV0412				uncharacterized conserved protein CAC1439	Unclassified	Role category not yet assigned	
WAN014G1M_at		SAV041			SAV0413				UvrD/REP helicase domain protein	Unclassified	Role category not yet assigned	
WAN014G2H_at		SA0399			SAV0439				Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned	
WAN014G7V_at		SA1633			SAV1815				Ear	Unclassified	Role category not yet assigned	
WAN014GB1_at					SAV2516	MW2551	dfB		clumping factor B	Unclassified	Role category not yet assigned	
WAN014GB2_at		SAR2531			SAV2441				fmbA-like protein	Unclassified	Role category not yet assigned	
WAN014G19_X_at		SAR2471							transposase	Unclassified	Role category not yet assigned	
WAN014GLB_at		SA1765	SAR2049		SAV1954				770RF004	Unclassified	Role category not yet assigned	
WAN014G00_at		SA0281			SAV0293	MW0268			YeeE	Unclassified	Role category not yet assigned	
WAN014G09_X_at					SAV0912				770RF050	Unclassified	Role category not yet assigned	
WAN014G0C_at					SAV0752	MW0764			clumping factor	Unclassified	Role category not yet assigned	
WAN014HAZ_at			SAR0602						putative membrane protein	Unclassified	Role category not yet assigned	
WAN014HT0_at		SA0095			SAV0099				Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned	
WAN014HEK_at		SA0743			SAV0812				secreted von Willebrand factor-binding protein	Unclassified	Role category not yet assigned	
WAN014HLA_at		SA0074	SAR0076		SAV0078				unnamed protein product: ORF N009	Unclassified	Role category not yet assigned	
WAN014HLB_at		SA0073	SAR0074		SAV0076				unnamed protein product: ORF N010	Unclassified	Role category not yet assigned	
WAN014HLD_at		SA0065	SAR1144	SAS1104	SAV0069	MW1052			conserved hypothetical protein SA0065	Unclassified	Role category not yet assigned	
WAN014HLH_at		SA0056	SAR0058		SAV0060				unnamed protein product: ORF17	Unclassified	Role category not yet assigned	
WAN014HNM_at		SA0042			SAV0045		putative		unnamed protein product: ORF7	Unclassified	Role category not yet assigned	
WAN014HNP_at		SA0061	SAR0063		SAV0065				unnamed protein product: ORF11	Unclassified	Role category not yet assigned	
WAN014HNZ_at		SA0072	SAR0074		SAV0075				unnamed protein product: ORF13	Unclassified	Role category not yet assigned	
WAN014HNW_at			SAR0092						Ren71, putative	Unclassified	Role category not yet assigned	
WAN014HNX_at			SAR0093						putative membrane protein	Unclassified	Role category not yet assigned	
WAN014HO1_at			SAR0367						DNA-binding protein	Unclassified	Role category not yet assigned	
WAN014HP3_at			SAR0638						putative membrane protein	Unclassified	Role category not yet assigned	
WAN014HO2_at			SAR0256						putative membrane protein	Unclassified	Role category not yet assigned	
WAN014HO9_at			SAR1288						putative lipoprotein	Unclassified	Role category not yet assigned	
WAN014HRJ_at			SAR1535						770RF030	Unclassified	Role category not yet assigned	
WAN014HRM_at			SAR1554						770RF023	Unclassified	Role category not yet assigned	
WAN014HRP_at			SAR1555						770RF077	Unclassified	Role category not yet assigned	
WAN014HTV_at			SAR1896						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HTZ_at			SAR1889						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HU0_at			SAR1890						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HU6_at			SAR1894						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HUJ_at		SA1768	SAR2054		SAV1957				770RF020	Unclassified	Role category not yet assigned	
WAN014HUK_at		SA1773	SAR2060		SAV1962				770RF045	Unclassified	Role category not yet assigned	
WAN014HV0_at		SA1774	SAR2061		SAV1963				770RF006	Unclassified	Role category not yet assigned	
WAN014HV5_at		SA1780	SAR2067		SAV1969				770RF026	Unclassified	Role category not yet assigned	
WAN014HV6_at			SAR1131						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HW1_at			SAR2260						hypothetical protein, similar to BAB43261.1 of S. aureus N315	Unclassified	Role category not yet assigned	
WAN014HX3_at		SA2704	SAR1556						770RF011	Unclassified	Role category not yet assigned	
WAN014HXJ_at			SAR1911						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HYS_at			SAR2788						putative exported protein	Unclassified	Role category not yet assigned	
WAN014HYV_at			SAR2789						SprC	Unclassified	Role category not yet assigned	
WAN014HW_at		SA1770			SAV1959				770RF029	Unclassified	Role category not yet assigned	

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN014IKK_x_at				SAS0905						phi PVL orf 39-like protein	Unclassified	Role category not yet assigned
WAN014IKT_at		SA0398			SAV0438		lpl3			Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IKU_at		SA0400			SAV0440					Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IKV_at		SA0401			SAV0441					Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IKW_at		SA0402			SAV0442					Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014ILB_at		SA1818			SAV2010					Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IMB_at				SAS0915						77ORF030	Unclassified	Role category not yet assigned
WAN014IMC_x_at		SA0403								Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014INW_x_at		SA0397			SAV0437		lpl2			Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014INY_at		SA0396								Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IO1_at		SA0405			SAV0445					Staphylococcus tandem lipoproteins subfamily	Unclassified	Role category not yet assigned
WAN014IOS_at			SAR0671							ABC transporter ATP-binding protein	Unclassified	Role category not yet assigned
WAN014IOL_at		SA2389			SAV2596					glutamyl-endopeptidase	Unclassified	Role category not yet assigned
WAN014IOM_at		SA2382			SAV2596					glutamyl-endopeptidase	Unclassified	Role category not yet assigned
WAN014ITC_at			SAR1539	SAS0911		MW1423				PVL orf 50-like protein	Unclassified	Role category not yet assigned
WAN014ITD_at			SAR1540	SAS0910		MW1424				ETA orf 26-like protein-related protein	Unclassified	Role category not yet assigned
WAN014ITH_at			SAR1543	SAS0907		MW1427				phi APSE P51-like protein	Unclassified	Role category not yet assigned
WAN014ITO_s_at		SA0107		SAS0085	SAV0111	MW0084				protein A	Unclassified	Role category not yet assigned
WAN014IU1_at			SAR1305							transposase	Unclassified	Role category not yet assigned
WAN014IU2_at		SA0047	SAR1734		SAV0050					unnamed protein product: ORF N050	Unclassified	Role category not yet assigned
WAN014IWJ_s_at		SA0222								staphylocoagulase precursor [imported]	Unclassified	Role category not yet assigned
WAN014IX2_at		SA0745		SAS0755	SAV0814	MW0768				secreted von Willebrand factor-binding protein	Unclassified	Role category not yet assigned
WAN014IX4_at			SAR0846							putative exported protein	Unclassified	Role category not yet assigned
WAN014IXK_at			SAR1533							phi PV83 orf 27-like protein	Unclassified	Role category not yet assigned
WAN014IYC_x_at			SAR2471							transposase	Unclassified	Role category not yet assigned
WAN014A5A_s_at					SAV0894					phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014A5R_s_at					SAV0893					phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014A5I_s_at					SAV0898					phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014A7Z_s_at					SAV0894					phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014A7Z2_s_at					SAV0888					phi Mu50B-like protein	Unclassified	Role category not yet assigned
WAN014BTJF_at			SAR0838							putative membrane protein	Unclassified	Role category not yet assigned
WAN014BU2B_s_at			SAR1501	SAS0950		MW1384				SLT orf 129-like protein	Unclassified	Role category not yet assigned
WAN014BU2C_at			SAR1532							phi PVL ORF 52 homologue	Unclassified	Role category not yet assigned
WAN014BUCJ_at			SAR1861							putative membrane protein	Unclassified	Role category not yet assigned
WAN014BUDD_at			SAR1893							putative exported protein	Unclassified	Role category not yet assigned
WAN014BUDU_at			SAR1910							putative membrane protein	Unclassified	Role category not yet assigned
WAN014BUJK_at			SAR2119		SAV2032	MW1956				serine-aspartate repeat protein	Unclassified	Role category not yet assigned
WAN014BUJL_at			SAR2493	SAS2294	SAV2403	MW2325	formate			NirC protein	Unclassified	Role category not yet assigned
WAN014BUWJ_at			SAR2562							putative membrane protein	Unclassified	Role category not yet assigned
WAN014BUWU_at			SAR2563							putative membrane protein	Unclassified	Role category not yet assigned
WAN014BV1L_at			SAR2718							putative exported protein	Unclassified	Role category not yet assigned
WAN014BXF6_at				SAS0520		MW0517	sdrD			sdrD protein	Unclassified	Role category not yet assigned
WAN014Z4I_at			SAR1828							DNA-invertase	Unclassified	Role category not yet assigned
WAN014BZVA_at			SAR0997	SAS0960	SAV1028	MW0908	lplA			lipotein-protein ligase-like protein	Unclassified	Role category not yet assigned
WAN014C1RM_at			SAR2091							putative exported protein	Unclassified	Role category not yet assigned
WAN014C3JL_at			SA0054		SAV0058		D86934			unnamed protein product: ORF N043	Unclassified	Role category not yet assigned
WAN014C3JM_at			SA0055		SAV0059					unnamed protein product: ORF19	Unclassified	Role category not yet assigned
WAN014C3JZ_at			SA0060	SAR0062		SAV0064				unnamed protein product: ORF12	Unclassified	Role category not yet assigned
WAN014G7L_at		SA2583	SA2355		SAS2454	SAV2568	MW2489			acetyltransferase, GNAT family	Unknown function	Enzymes of unknown specificity
WAN014GBU_at		SA0046								metallo-beta-lactamase family protein	Unknown function	Enzymes of unknown specificity
WAN014GEF_at		SA2612	SA2380	SAR2674	SAS2480	SAV2594	MW2514			hydrolase, CocE/NonD family	Unknown function	Enzymes of unknown specificity
WAN014GOW_at			SA1806	SAR2101						exonuclease, putative	Unknown function	Enzymes of unknown specificity
WAN014GQR_at		SA0908								beta-lactamase, putative	Unknown function	Enzymes of unknown specificity
WAN014H0L_at		SA0064		SAS0083		SAV0087	MW0057			metallo-beta-lactamase family protein	Unknown function	Enzymes of unknown specificity
WAN014HTI_at			SAR0824							malate oxidoreductase	Unknown function	Enzymes of unknown specificity
WAN014HUX_at			SAS1930			MW1947				Acetyltransferase (GNAT) family	Unknown function	Enzymes of unknown specificity
WAN014ILJ_at		SA2541	SAR2609	SAS2415		MW2449				acetyltransferase, GNAT family	Unknown function	Enzymes of unknown specificity
WAN014IOE_at			SAR2779							N-acetyltransferase family protein	Unknown function	Enzymes of unknown specificity
WAN014FSR_at				SAS0046						glyoxalase family protein, putative	Unknown function	General
WAN014GDZ_at		SA2716	SA2484		SAV2692					30S ribosomal protein S14 homolog-related	Unknown function	General
WAN014GNM_at			SAR0284							diarrheal toxin	Unknown function	General
WAN014H9H_at			SAR0639		SAV0674	MW0636				Protein of unknown function (DUF456) superfamily	Unknown function	General
WAN014H0I_at			SAR0368							DNA binding domain, excisionase family protein, putative	Unknown function	General
WAN014HT2_at			SAR0721							multicopper oxidase domain protein	Unknown function	General
WAN014HTX_at			SAR1885							Domain of unknown function (DUF955) family	Unknown function	General
WAN014HXW_at			SAR2591							LysE/YggA family protein	Unknown function	General
WAN014I21_at		SA2142								SAP domain protein	Unknown function	General
WAN014I4N_at		SA2195	SA2004							M23/M37 peptidase domain protein	Unknown function	General
WAN014I52_at		SA2203								CipA-related protein	Unknown function	General
WAN014IPV_at			SA0761	SAR0865	SAS0774	SAV0834	MW0787			conserved protein, ortholog YwqG B. subtilis	Unknown function	General
WAN014IR0_at			SAR2717							immunodominant antigen B	Unknown function	General
WAN014ISR-seg2_at		SA0379	SAR1507	SAS0944		MW1390				bacteriophage L54a, M23/M37 peptidase domain protein	Unknown function	General
WAN014ISV_at		SA0376	SAR1510	SAS0941		MW1392				bacteriophage L54a, bacterial ts-like domain group 2 family protein	Unknown function	General
WAN014IX5_at		SA2015				MW1951				integrase/recombinase-related protein, authentic frameshift	Unknown function	General
WAN014BUCK_at			SAR1862							abortive infection protein family	Unknown function	General
WAN014BUCI_at			SAR1863	SAS0035						abortive infection protein family	Unknown function	General
WAN014BXOW_at				SAS1911	SAV1991	MW1928				unnamed protein product: ORF12	Unknown function	General
WAN014CAXR_at		SA1799	SAR2092							Domain of unknown function (DUF771) superfamily	Unknown function	General
WAN014HF5_at												
WAN014IN2_at												
WAN014HFU_at												
WAN014HHU_at												
WAN014HFJ_at												
WAN014HHV_at												
WAN014HFV_at												
WAN014HHQ_at												
WAN014HHR_at												
WAN014HFJW_at												
WAN014HHS_at												
WAN014HHT_at												
WAN014HFZ_at												
WAN014HG0_at												
WAN014HG1_at												
WAN014HW_at												
WAN014HGN_at												
WAN014HGQ_at												
WAN014HGS_at												
WAN014HGT_at												
WAN014HGU_at												
WAN014HGV_at												
WAN014HGW_at												
WAN014HGX_at												

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
AB047089-cds1_at					SAV0057			AB047089-cds1	Staphylococcus aureus (strain 85/3907) DNA.			
WAN014HJ8_at								AF051916-cds4	Gene:Product:unknown;Note:ORF-140; truncated by IS257 insertion			
WAN014HJC_at								AF051916-cds5	Gene:orfA;Product:trimethoprim resistance protein DfA;Note:DHFR			
WAN014HJF_at								AF051917-cds22	Gene:artA;Product:putative regulator of transfer genes ArtA			
WAN014HI1_at								AF051917-cds23	Gene:traA;Product:TraA			
WAN014HI2_at								AF051917-cds24	Gene:traB;Product:putative membrane protein TraB			
WAN014HI5_at								AF051917-cds25	Gene:traC;Product:putative membrane protein TraC			
WAN014HI6_at								AF051917-cds26	Gene:traD;Product:TraD			
WAN014HI7_at								AF051917-cds27	Gene:traE;Product:putative ATPase TraE			
WAN014HI8_at								AF051917-cds28	Gene:traF;Product:putative membrane protein TraF			
WAN014HI9_at								AF051917-cds29	Gene:traG;Product:putative membrane protein TraG			
WAN014HIA_at								AF051917-cds30	Gene:traH;Product:lipoprotein TraH			
WAN014HIB_at								AF051917-cds31	Gene:traI;Product:putative topoisomerase TraI			
WAN014HIC_at								AF051917-cds32	Gene:traJ;Product:putative membrane protein TraJ			
WAN014HID_at								AF051917-cds33	Gene:traK;Product:putative membrane protein TraK			
WAN014HIE_at								AF051917-cds34	Gene:traL;Product:putative membrane protein TraL			
WAN014HII_at								AF051917-cds35	Gene:traM;Product:			
WAN014IWC_x_at								AF053772-cds1	Gene:sin;Product:putative recombinase Sin			
WAN014HJ1_at								AF117258-cds4	Gene:vat;Product:acetyltransferase Vat			
WAN014HJ2_at								AF117258-cds5	Gene:vgb;Product:hydrolase VgB			
WAN014HJ3_at								AF117259-cds3	Gene:Product:ATP binding protein VgA;Note:putative ATP transporter			
WAN014HG_X_at								AF217235-cds15	Gene:Product:Orf15			
X58434-cds1_at								AF235026-cds1	Gene:pdhB;Product:pyruvate dehydrogenase beta subunit PdhB			
WAN014HJU_at								AF259550-cds1	Gene:agrD;Product:AgriD signal peptide precursor;Note:autoinducing-peptide			
WAN014HKG_a_at								AJ132841-cds1	Gene:mapN;Product:MapN protein			
AP001553-cds14_x_at			SAR1546					AP001553-cds14	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014GM8_at								AP001553-cds18	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014GM7_at								AP001553-cds22	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014GM6_at								AP001553-cds23	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014G08_at								AP001553-cds28	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
AP001553-cds44_at								AP001553-cds44	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014HKQ_at	SAV199				SAV1997			AP001553-cds7	bacteriophage phi ETA (specific_host:Staphylococcus aureus E-1) DNA.			
WAN014IWP_at								D42144-cds1	Staphylococcus aureus Bacteria; Firmicutes; GENE=""coa""			
WAN014HL5_at									Staphylococcus aureus (strain:PB3) DNA.			
WAN014IWM_at									Staphylococcus aureus Bacteria; GENE=""tbpA""			
WAN014IGN_at					SAVP005				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAVP005""			
WAN014HIJ_at									Staphylococcus aureus Bacteria; Firmicutes; GENE=N/A			
WAN014IQA_at									Staphylococcus aureus Bacteria; Firmicutes; GENE=N/A			
WAN014HIK_at									Staphylococcus aureus Bacteria; Firmicutes; GENE=N/A			
WAN014FWL_at			SAS0898		SAV0852				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0852""			
WAN014GDP_at					SAV0895				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0895""			
WAN014G4W_at					SAV0917				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV0917""			
WAN01C4VF_at									Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV2013""			
WAN01C4VG_at									Staphylococcus aureus subsp. aureus Mu50 GENE=""SAV2014""			
WAN014GGO_at					SAVP007				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAVP007""			
WAN014GSP_at					SAVP009				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAVP009""			
WAN014GGO_at					SAVP011				Staphylococcus aureus subsp. aureus Mu50 GENE=""SAVP011""			
WAN014IJA_at									Staphylococcus epidermidis Bacteria; Firmicutes; GENE=""trp""			
J04551-cds1_at								J04551-cds1	Plasmid pI258 DNA.			
WAN014HLR_at					SAV0848			M27965-cds1	Bacteriophage L54a DNA.			
WAN014HLW_at	SA2703							M28521-cds1	Gene:entD;Product:enterotoxin D precursor			
WAN014HLX_at	SA2701							M36694-cds1	S.aureus (strain PS80) DNA.			
WAN014IRB_at									Staphylococcus aureus GENE=""sm""			
WAN014IQY_at									Staphylococcus aureus Bacteria; Firmicutes; GENE=""nes""			
WAN014WE_at									Staphylococcus aureus Bacteria; Firmicutes; GENE=""pre""			
WAN014IWL_at									Staphylococcus aureus Bacteria; GENE=N/A			
WAN014HM7_at								U75367-cds1	Gene:Product:transposase			
X03216-cds7_at								X03216-cds7	Gene:Product:peptide 1;Note:(aa 1-15)			
X06627-cds4_at								X06627-cds4	Gene:Product:ORF (str)			
X16298-cds2_at								X16298-cds2	Gene:Product;Note:bin3 product			
X53096-cds1_at								X53096-cds1	Gene:Product:Sau96I DNA methyltransferase			
X53096-cds2_at								X53096-cds2	Gene:Product:Sau96I restriction endonuclease			
X75439-cds1_at								X75439-cds1	Gene:Product:Note:ORF B			
X75439-cds3_at								X75439-cds3	Gene:Product:Note:ORF C			
Y07536-cds4_x_at								Y07536-cds4	Gene:Product:transposase			
Y07739-cds1_at								Y07739-cds1	Staphylococcus phage Twort.			
Y07739-cds2_at								Y07739-cds2	Staphylococcus phage Twort.			
Y07740-cds1_at								Y07740-cds1	Staphylococcus phage 187.			
Y13600-cds4_at								Y13600-cds4	Staphylococcus aureus.			
Y13766-cds1_at								Y13766-cds1	Staphylococcus aureus.			
WAN014FRY_at				SAS0040								
WAN014FWT_at				SAS0930								
WAN014GI6_at	SAV039				SAV0393							
WAN014G9L_at												
WAN014GA2_at	SAV039				SAV0394							
WAN014GA4_at	SAV040				SAV0403							
WAN014GCJ_at												
WAN014GDS_x_at					SAV0863							
WAN014GE4_at												
WAN014GEC_x_at												
WAN014GF1_at												
WAN014GFN_at	SAS077				SAV2214							
WAN014G59_at												
WAN014GGX_x_at												
WAN014GH2_at	SA0030	SAR0031a			SAV0032							
WAN014GH3_at	SA0031	SAR0031b			SAV0033							
WAN014GH4_at	SA0033	SAR0075a			SAV0077							
WAN014GH7_at	SAS004		SAS0101a		SAV0127							
WAN014GH8_at	SA2699	SA0188	SAR0195	SAS0169	SAV0194	MW0168						
WAN014GH9_at		SA0066		SAS0179	SAV0204	MW0179						
WAN014HD1_at		SA0011		SAS0352	SAV0375	MW0350						
WAN014GHH_at		SA0013			SAV0430							
WAN014GHO_at		SAS038		SAS1231a	SAV1299	MW1181						
WAN014GIF_at		SA1610		SAS1712a	SAV1792	MW1730						
WAN014GIN_at		SA0075		SAS2099	SAV2198	MW2124						
WAN014GK0_at												
WAN014GKA_x_at												
WAN014GKF_at												
WAN014GKI_at												
WAN014GKO_at												
WAN014GLR_at			SAS1657a			MW1673						
WAN014GM2_at												

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN014GML_at		SA1803	SAR2098									
WAN014GOD_at			SAR1548									
WAN014GOQ_at												
WAN014GOX_at			SAR2102									
WAN014GRF_at												
WAN014GSL_at												
WAN014GT6_at												
WAN014GX6_at												
WAN014H2L_x_at												
WAN014HL9_at		SA0075	SAR0077			SAV0079						
WAN014HOD_at												
WAN014HOP_at												
WAN014HOV_at												
WAN014HRQ_at												
WAN014HRR_at												
WAN014HRS_at												
WAN014HTN_at												
WAN014HL5_at												
WAN014HV8_at			SAR2073									
WAN014HW6_at												
WAN014HW9_at												
WAN014HZL_at												
WAN014HZM_at												
WAN014HM_at												
WAN014INZ_at												
WAN014IO0_at												
WAN014IO6_at												
WAN014IO9_at			SAR1322									
WAN014IOF_at		SA0350	SAR0359	SAS0338		SAV0362	MW0338					
WAN014IQ3_at		SA0053				SAV0057						
WAN014IRG_at												
WAN014IRL_at												
WAN014ISF_at												
WAN014ISW_at												
WAN014IT7_at												
WAN014ITF_at												
WAN014ITI_at												
WAN014ITY_at												
WAN014IUW_at												
WAN014IVA_at			SAR1137									
WAN014IVU_at												
WAN014IVY_at		SAV086				SAV0867						
WAN014IW6_at												
WAN014IW7_at												
WAN014IW8_at		SAV165				SAV1654						
WAN014IW9_at												
WAN014IWA_at												
WAN014IWD_at												
WAN014IX0_at												
WAN014IXJ_s_at		SAV197				SAV1977						
WAN014IXP_at												
WAN014IXX_at												
WAN014IS61_s_at						SAV0867						
WAN01A72C_x_at						SAV0915						
WAN01A736_at												
WAN01A73B_at												
WAN01A73T_x_at												
WAN01A771_x_at												
WAN01A776_at												
WAN01A7N_x_at				SAS0914								
WAN01A7Y_x_at												
WAN01A7JA_at												
WAN01A7HT_at												
WAN01ABV_at						SAV2208						
WAN01ABX_s_at												
WAN01ABMR_at												
WAN01ABS8_at												
WAN01AAW5_s_at												
WAN01ABSH_at												
WAN01ABL8_at												
WAN01AC23_at												
WAN01ACOT_at												
WAN01BRC0_at			SAR0604									
WAN01BSDG_at												
WAN01BSVG_at												
WAN01BSY9_at												
WAN01BSYF_at			SAR0089									
WAN01BSYQ_at			SAR0100									
WAN01BT0Y_at												
WAN01BT18_at												
WAN01BT3F_at												
WAN01BT42_at												
WAN01BT61_at			SAR0371									
WAN01BT6Y_x_at												
WAN01BT76_x_at			SAR395a									
WAN01BT7P_at												
WAN01BT82_at												
WAN01BT83_at												
WAN01BTCM_at												
WAN01BTCY_at												
WAN01BTCZ_x_at												
WAN01BTD4_at												
WAN01BTE0_at												
WAN01BTRQ_at			SAR1133									
WAN01BTRU_x_at			SAR1136a									
WAN01BTRWH_at			SAR1303									
WAN01BU0Q-seg2_at			SAR1447									
WAN01BU2V_at			SAR1521									
WAN01BU3A_at			SAR1534									
WAN01BU3M_at												
WAN01BU3T_at			SAR1553									
WAN01BUB0_at												

Systematic	COL	N315	MRSA	MSSA	Mu50	MW2	GENE NAME	GenBank ID	GenBank Desc.	Protein Function	TIGR Main Role	TIGR Sub Role
WAN01BUBX_at												
WAN01BUCD_at												
WAN01BUCI_at												
WAN01BUD8_at			SAR1860									
WAN01BUDN_at												
WAN01BUDO_at												
WAN01BUDS_at			SAR1908									
WAN01BUDW_at												
WAN01BUE7_at												
WAN01BUEG_at												
WAN01BUIS_x_at			SAR2088									
WAN01BUJU_x_at			SAR2090									
WAN01BUJ6_at												
WAN01BUJD_at												
WAN01BUJF_at			SAR2114									
WAN01BUJG_at			SAR2115									
WAN01BUM7_at												
WAN01BUN_at			SAR2289a									
WAN01BUOX_at			SAR2297a									
WAN01BUOY_at			SAR2297b									
WAN01BUT1_s_at												
WAN01BUUK_at			SAR2494									
WAN01BUV1_at												
WAN01BUVV_at												
WAN01BUVX_at												
WAN01BUX0_at												
WAN01BUX3_at												
WAN01BUX4_at												
WAN01BUYQ_at												
WAN01BUY2_at												
WAN01BVOF_at												
WAN01BV10_x_at												
WAN01BV21_at												
WAN01BW3M_x_at												
WAN01BWZ7_at												
WAN01BX0L_at												
WAN01BX0R_at			SAS0030									
WAN01BX10_at												
WAN01BX13_at												
WAN01BX4S_at												
WAN01BXBA_x_at												
WAN01BXBJ_at												
WAN01BXDI_at												
WAN01BXGF_x_at												
WAN01BXQZ_at												
WAN01BXVP_at												
WAN01BY7T_at												
WAN01BY0E_at												
WAN01BY3W_at						MW1324						
WAN01BY5D_at												
WAN01BYLV_x_at												
WAN01BYTK_at												
WAN01BYU4_at			SAS2278a			MW2309						
WAN01BZ41_at												
WAN01BZ42_at												
WAN01BZ43_at												
WAN01BZ44_at												
WAN01BZ45_at												
WAN01BZ47_at												
WAN01BZ48_at												
WAN01BZ49_at												
WAN01BZ4A_at												
WAN01BZ50_at												
WAN01BZ51_at												
WAN01BZ52_at												
WAN01BZ54_at												
WAN01BZ55_at												
WAN01C1E4_at												
WAN01C1EJ_at												
WAN01C1PZ_at												
WAN01C1RL_x_at												
WAN01C1ST_s_at												
WAN01C26O_at												
WAN01C299_at												
WAN01C2H9_at												
WAN01C2HO_at												
WAN01C2TP_at												
WAN01C2V3_at												
WAN01C2V7_at												
WAN01C3MJ_at		SAV039										
WAN01C4US_at		SAV199										
WAN01C7GQ_at												
WAN01C7NC_at												
WAN01C8MO_at												
WAN01C8OH_x_at												
WAN01C8OY_at												
WAN01C8P5_at												
WAN01C8TY_at												