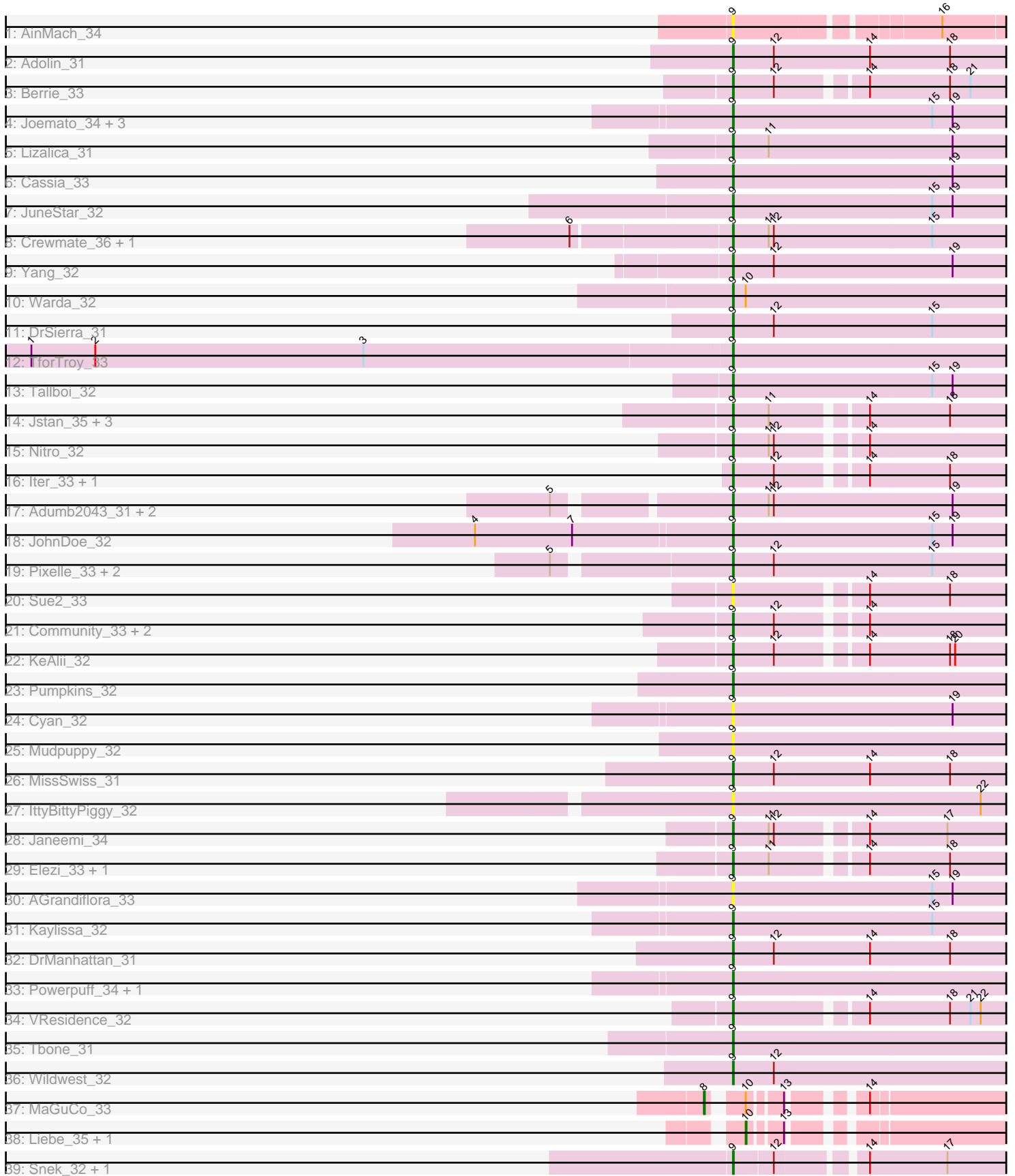


Pham 166727



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 166727 Report

This analysis was run 07/09/24 on database version 566.

Pham number 166727 has 57 members, 14 are drafts.

Phages represented in each track:

- Track 1 : AinMach_34
- Track 2 : Adolin_31
- Track 3 : Berrie_33
- Track 4 : Joemato_34, Lego_32, Simpson_34, Tutumahutu_32
- Track 5 : Lizalica_31
- Track 6 : Cassia_33
- Track 7 : JuneStar_32
- Track 8 : Crewmate_36, ObiToo_35
- Track 9 : Yang_32
- Track 10 : Warda_32
- Track 11 : DrSierra_31
- Track 12 : TforTroy_33
- Track 13 : Tallboi_32
- Track 14 : Jstan_35, Niobe_33, Asa16_33, Eraser_33
- Track 15 : Nitro_32
- Track 16 : lter_33, Ascela_33
- Track 17 : Adumb2043_31, Turab_31, AEgle_31
- Track 18 : JohnDoe_32
- Track 19 : Pixelle_33, Tian_32, Amyev_32
- Track 20 : Sue2_33
- Track 21 : Community_33, Tuck_35, Phives_34
- Track 22 : KeAlii_32
- Track 23 : Pumpkins_32
- Track 24 : Cyan_32
- Track 25 : Mudpuppy_32
- Track 26 : MissSwiss_31
- Track 27 : IttyBittyPiggy_32
- Track 28 : Janeemi_34
- Track 29 : Elezi_33, London_33
- Track 30 : AGrandiflora_33
- Track 31 : Kaylissa_32
- Track 32 : DrManhattan_31
- Track 33 : Powerpuff_34, YesChef_32
- Track 34 : VResidence_32
- Track 35 : Tbone_31
- Track 36 : Wildwest_32
- Track 37 : MaGuCo_33

- Track 38 : Liebe_35, Maureen_35
- Track 39 : Snek_32, Tweety19_32

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 9, it was called in 40 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_31, AGrandiflora_33, Adolin_31, Adumb2043_31, AinMach_34, Amyev_32, Asa16_33, Ascela_33, Berrie_33, Cassia_33, Community_33, Crewmate_36, Cyan_32, DrManhattan_31, DrSierra_31, Elezi_33, Eraser_33, Iter_33, IttyBittyPiggy_32, Janeemi_34, Joemato_34, JohnDoe_32, Jstan_35, JuneStar_32, Kaylissa_32, KeAlii_32, Lego_32, Lizalica_31, London_33, MissSwiss_31, Mudpuppy_32, Niobe_33, Nitro_32, ObiToo_35, Phives_34, Pixelle_33, Powerpuff_34, Pumpkins_32, Simpson_34, Snek_32, Sue2_33, Tallboi_32, Tbone_31, TforTroy_33, Tian_32, Tuck_35, Turab_31, Tutumahutu_32, Tweety19_32, VResidence_32, Warda_32, Wildwest_32, Yang_32, YesChef_32,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- Liebe_35, MaGuCo_33, Maureen_35,

Summary by start number:

Start 8:

- Found in 1 of 57 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MaGuCo_33 (AZ2),

Start 9:

- Found in 54 of 57 (94.7%) of genes in pham
- Manual Annotations of this start: 40 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_31 (AZ1), AGrandiflora_33 (AZ1), Adolin_31 (AZ1), Adumb2043_31 (AZ1), AinMach_34 (AZ), Amyev_32 (AZ1), Asa16_33 (AZ1), Ascela_33 (AZ1), Berrie_33 (AZ1), Cassia_33 (AZ1), Community_33 (AZ1), Crewmate_36 (AZ1), Cyan_32 (AZ1), DrManhattan_31 (AZ1), DrSierra_31 (AZ1), Elezi_33 (AZ1), Eraser_33 (AZ1), Iter_33 (AZ1), IttyBittyPiggy_32 (AZ1), Janeemi_34 (AZ1), Joemato_34 (AZ1), JohnDoe_32 (AZ1), Jstan_35 (AZ1), JuneStar_32 (AZ1), Kaylissa_32 (AZ1), KeAlii_32 (AZ1), Lego_32 (AZ1), Lizalica_31 (AZ1), London_33 (AZ1), MissSwiss_31 (AZ1), Mudpuppy_32 (AZ1), Niobe_33 (AZ1), Nitro_32 (AZ1), ObiToo_35 (AZ1), Phives_34 (AZ1), Pixelle_33 (AZ1), Powerpuff_34 (AZ1), Pumpkins_32 (AZ1), Simpson_34 (AZ1), Snek_32 (AZ3), Sue2_33 (AZ1), Tallboi_32 (AZ1), Tbone_31 (AZ1), TforTroy_33 (AZ1), Tian_32 (AZ1), Tuck_35 (AZ1), Turab_31 (AZ1), Tutumahutu_32 (AZ1), Tweety19_32 (AZ3), VResidence_32 (AZ1), Warda_32 (AZ1), Wildwest_32 (AZ1), Yang_32 (AZ1),

YesChef_32 (AZ1),

Start 10:

- Found in 4 of 57 (7.0%) of genes in pham
- Manual Annotations of this start: 2 of 43
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Liebe_35 (AZ2), Maureen_35 (AZ2),

Summary by clusters:

There are 4 clusters represented in this pham: AZ1, AZ2, AZ3, AZ,

Info for manual annotations of cluster AZ1:

- Start number 9 was manually annotated 38 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 8 was manually annotated 1 time for cluster AZ2.
- Start number 10 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 9 was manually annotated 2 times for cluster AZ3.

Gene Information:

Gene: AEgle_31 Start: 24089, Stop: 24439, Start Num: 9

Candidate Starts for AEgle_31:

(5, 23912), (Start: 9 @24089 has 40 MA's), (11, 24131), (12, 24137), (19, 24344),

Gene: AGrandiflora_33 Start: 24317, Stop: 24667, Start Num: 9

Candidate Starts for AGrandiflora_33:

(Start: 9 @24317 has 40 MA's), (15, 24548), (19, 24572),

Gene: Adolin_31 Start: 22754, Stop: 23104, Start Num: 9

Candidate Starts for Adolin_31:

(Start: 9 @22754 has 40 MA's), (12, 22802), (14, 22913), (18, 23006),

Gene: Adumb2043_31 Start: 24088, Stop: 24438, Start Num: 9

Candidate Starts for Adumb2043_31:

(5, 23911), (Start: 9 @24088 has 40 MA's), (11, 24130), (12, 24136), (19, 24343),

Gene: AinMach_34 Start: 25278, Stop: 25565, Start Num: 9

Candidate Starts for AinMach_34:

(Start: 9 @25278 has 40 MA's), (16, 25494),

Gene: Amyev_32 Start: 26024, Stop: 26374, Start Num: 9

Candidate Starts for Amyev_32:

(5, 25835), (Start: 9 @26024 has 40 MA's), (12, 26072), (15, 26255),

Gene: Asa16_33 Start: 26275, Stop: 26604, Start Num: 9

Candidate Starts for Asa16_33:

(Start: 9 @26275 has 40 MA's), (11, 26317), (14, 26413), (18, 26506),

Gene: Ascela_33 Start: 24466, Stop: 24795, Start Num: 9

Candidate Starts for Ascela_33:

(Start: 9 @24466 has 40 MA's), (12, 24514), (14, 24604), (18, 24697),

Gene: Berrie_33 Start: 25350, Stop: 25679, Start Num: 9

Candidate Starts for Berrie_33:

(Start: 9 @25350 has 40 MA's), (12, 25398), (14, 25488), (18, 25581), (21, 25605),

Gene: Cassia_33 Start: 24921, Stop: 25271, Start Num: 9

Candidate Starts for Cassia_33:

(Start: 9 @24921 has 40 MA's), (19, 25176),

Gene: Community_33 Start: 26474, Stop: 26803, Start Num: 9

Candidate Starts for Community_33:

(Start: 9 @26474 has 40 MA's), (12, 26522), (14, 26612),

Gene: Crewmate_36 Start: 25183, Stop: 25533, Start Num: 9

Candidate Starts for Crewmate_36:

(6, 25009), (Start: 9 @25183 has 40 MA's), (11, 25225), (12, 25231), (15, 25414),

Gene: Cyan_32 Start: 24399, Stop: 24749, Start Num: 9

Candidate Starts for Cyan_32:

(Start: 9 @24399 has 40 MA's), (19, 24654),

Gene: DrManhattan_31 Start: 22745, Stop: 23095, Start Num: 9

Candidate Starts for DrManhattan_31:

(Start: 9 @22745 has 40 MA's), (12, 22793), (14, 22904), (18, 22997),

Gene: DrSierra_31 Start: 23230, Stop: 23580, Start Num: 9

Candidate Starts for DrSierra_31:

(Start: 9 @23230 has 40 MA's), (12, 23278), (15, 23461),

Gene: Elezi_33 Start: 26291, Stop: 26620, Start Num: 9

Candidate Starts for Elezi_33:

(Start: 9 @26291 has 40 MA's), (11, 26333), (14, 26429), (18, 26522),

Gene: Eraser_33 Start: 26282, Stop: 26611, Start Num: 9

Candidate Starts for Eraser_33:

(Start: 9 @26282 has 40 MA's), (11, 26324), (14, 26420), (18, 26513),

Gene: Iter_33 Start: 24465, Stop: 24794, Start Num: 9

Candidate Starts for Iter_33:

(Start: 9 @24465 has 40 MA's), (12, 24513), (14, 24603), (18, 24696),

Gene: IttyBittyPiggy_32 Start: 24503, Stop: 24853, Start Num: 9

Candidate Starts for IttyBittyPiggy_32:

(Start: 9 @24503 has 40 MA's), (22, 24791),

Gene: Janeemi_34 Start: 26490, Stop: 26819, Start Num: 9

Candidate Starts for Janeemi_34:

(Start: 9 @26490 has 40 MA's), (11, 26532), (12, 26538), (14, 26628), (17, 26718),

Gene: Joemato_34 Start: 24402, Stop: 24752, Start Num: 9
Candidate Starts for Joemato_34:
(Start: 9 @24402 has 40 MA's), (15, 24633), (19, 24657),

Gene: JohnDoe_32 Start: 24393, Stop: 24743, Start Num: 9
Candidate Starts for JohnDoe_32:
(4, 24102), (7, 24216), (Start: 9 @24393 has 40 MA's), (15, 24624), (19, 24648),

Gene: Jstan_35 Start: 26276, Stop: 26605, Start Num: 9
Candidate Starts for Jstan_35:
(Start: 9 @26276 has 40 MA's), (11, 26318), (14, 26414), (18, 26507),

Gene: JuneStar_32 Start: 26409, Stop: 26759, Start Num: 9
Candidate Starts for JuneStar_32:
(Start: 9 @26409 has 40 MA's), (15, 26640), (19, 26664),

Gene: Kaylissa_32 Start: 24365, Stop: 24715, Start Num: 9
Candidate Starts for Kaylissa_32:
(Start: 9 @24365 has 40 MA's), (15, 24596),

Gene: KeAlii_32 Start: 24404, Stop: 24733, Start Num: 9
Candidate Starts for KeAlii_32:
(Start: 9 @24404 has 40 MA's), (12, 24452), (14, 24542), (18, 24635), (20, 24641),

Gene: Lego_32 Start: 24319, Stop: 24669, Start Num: 9
Candidate Starts for Lego_32:
(Start: 9 @24319 has 40 MA's), (15, 24550), (19, 24574),

Gene: Liebe_35 Start: 26482, Stop: 26733, Start Num: 10
Candidate Starts for Liebe_35:
(Start: 10 @26482 has 2 MA's), (13, 26515),

Gene: Lizalica_31 Start: 24193, Stop: 24543, Start Num: 9
Candidate Starts for Lizalica_31:
(Start: 9 @24193 has 40 MA's), (11, 24235), (19, 24448),

Gene: London_33 Start: 26291, Stop: 26620, Start Num: 9
Candidate Starts for London_33:
(Start: 9 @26291 has 40 MA's), (11, 26333), (14, 26429), (18, 26522),

Gene: MaGuCo_33 Start: 25302, Stop: 25580, Start Num: 8
Candidate Starts for MaGuCo_33:
(Start: 8 @25302 has 1 MA's), (Start: 10 @25329 has 2 MA's), (13, 25362), (14, 25428),

Gene: Maureen_35 Start: 26482, Stop: 26733, Start Num: 10
Candidate Starts for Maureen_35:
(Start: 10 @26482 has 2 MA's), (13, 26515),

Gene: MissSwiss_31 Start: 22798, Stop: 23148, Start Num: 9
Candidate Starts for MissSwiss_31:
(Start: 9 @22798 has 40 MA's), (12, 22846), (14, 22957), (18, 23050),

Gene: Mudpuppy_32 Start: 24182, Stop: 24532, Start Num: 9
Candidate Starts for Mudpuppy_32:
(Start: 9 @24182 has 40 MA's),

Gene: Niobe_33 Start: 26276, Stop: 26605, Start Num: 9
Candidate Starts for Niobe_33:
(Start: 9 @26276 has 40 MA's), (11, 26318), (14, 26414), (18, 26507),

Gene: Nitro_32 Start: 25590, Stop: 25919, Start Num: 9
Candidate Starts for Nitro_32:
(Start: 9 @25590 has 40 MA's), (11, 25632), (12, 25638), (14, 25728),

Gene: ObiToo_35 Start: 24923, Stop: 25273, Start Num: 9
Candidate Starts for ObiToo_35:
(6, 24749), (Start: 9 @24923 has 40 MA's), (11, 24965), (12, 24971), (15, 25154),

Gene: Phives_34 Start: 26311, Stop: 26640, Start Num: 9
Candidate Starts for Phives_34:
(Start: 9 @26311 has 40 MA's), (12, 26359), (14, 26449),

Gene: Pixelle_33 Start: 26044, Stop: 26394, Start Num: 9
Candidate Starts for Pixelle_33:
(5, 25855), (Start: 9 @26044 has 40 MA's), (12, 26092), (15, 26275),

Gene: Powerpuff_34 Start: 25514, Stop: 25864, Start Num: 9
Candidate Starts for Powerpuff_34:
(Start: 9 @25514 has 40 MA's),

Gene: Pumpkins_32 Start: 25142, Stop: 25492, Start Num: 9
Candidate Starts for Pumpkins_32:
(Start: 9 @25142 has 40 MA's),

Gene: Simpson_34 Start: 24402, Stop: 24752, Start Num: 9
Candidate Starts for Simpson_34:
(Start: 9 @24402 has 40 MA's), (15, 24633), (19, 24657),

Gene: Snek_32 Start: 23329, Stop: 23622, Start Num: 9
Candidate Starts for Snek_32:
(Start: 9 @23329 has 40 MA's), (12, 23374), (14, 23464), (17, 23554),

Gene: Sue2_33 Start: 25042, Stop: 25371, Start Num: 9
Candidate Starts for Sue2_33:
(Start: 9 @25042 has 40 MA's), (14, 25180), (18, 25273),

Gene: Tallboi_32 Start: 25621, Stop: 25971, Start Num: 9
Candidate Starts for Tallboi_32:
(Start: 9 @25621 has 40 MA's), (15, 25852), (19, 25876),

Gene: Tbone_31 Start: 24197, Stop: 24547, Start Num: 9
Candidate Starts for Tbone_31:
(Start: 9 @24197 has 40 MA's),

Gene: TforTroy_33 Start: 25014, Stop: 25364, Start Num: 9

Candidate Starts for TforTroy_33:
(1, 24204), (2, 24279), (3, 24594), (Start: 9 @25014 has 40 MA's),

Gene: Tian_32 Start: 26024, Stop: 26374, Start Num: 9
Candidate Starts for Tian_32:
(5, 25835), (Start: 9 @26024 has 40 MA's), (12, 26072), (15, 26255),

Gene: Tuck_35 Start: 26855, Stop: 27184, Start Num: 9
Candidate Starts for Tuck_35:
(Start: 9 @26855 has 40 MA's), (12, 26903), (14, 26993),

Gene: Turab_31 Start: 24088, Stop: 24438, Start Num: 9
Candidate Starts for Turab_31:
(5, 23911), (Start: 9 @24088 has 40 MA's), (11, 24130), (12, 24136), (19, 24343),

Gene: Tutumahutu_32 Start: 24369, Stop: 24719, Start Num: 9
Candidate Starts for Tutumahutu_32:
(Start: 9 @24369 has 40 MA's), (15, 24600), (19, 24624),

Gene: Tweety19_32 Start: 23328, Stop: 23621, Start Num: 9
Candidate Starts for Tweety19_32:
(Start: 9 @23328 has 40 MA's), (12, 23373), (14, 23463), (17, 23553),

Gene: VResidence_32 Start: 24360, Stop: 24689, Start Num: 9
Candidate Starts for VResidence_32:
(Start: 9 @24360 has 40 MA's), (14, 24498), (18, 24591), (21, 24615), (22, 24627),

Gene: Warda_32 Start: 24373, Stop: 24723, Start Num: 9
Candidate Starts for Warda_32:
(Start: 9 @24373 has 40 MA's), (Start: 10 @24388 has 2 MA's),

Gene: Wildwest_32 Start: 24171, Stop: 24521, Start Num: 9
Candidate Starts for Wildwest_32:
(Start: 9 @24171 has 40 MA's), (12, 24219),

Gene: Yang_32 Start: 24514, Stop: 24864, Start Num: 9
Candidate Starts for Yang_32:
(Start: 9 @24514 has 40 MA's), (12, 24562), (19, 24769),

Gene: YesChef_32 Start: 24373, Stop: 24723, Start Num: 9
Candidate Starts for YesChef_32:
(Start: 9 @24373 has 40 MA's),