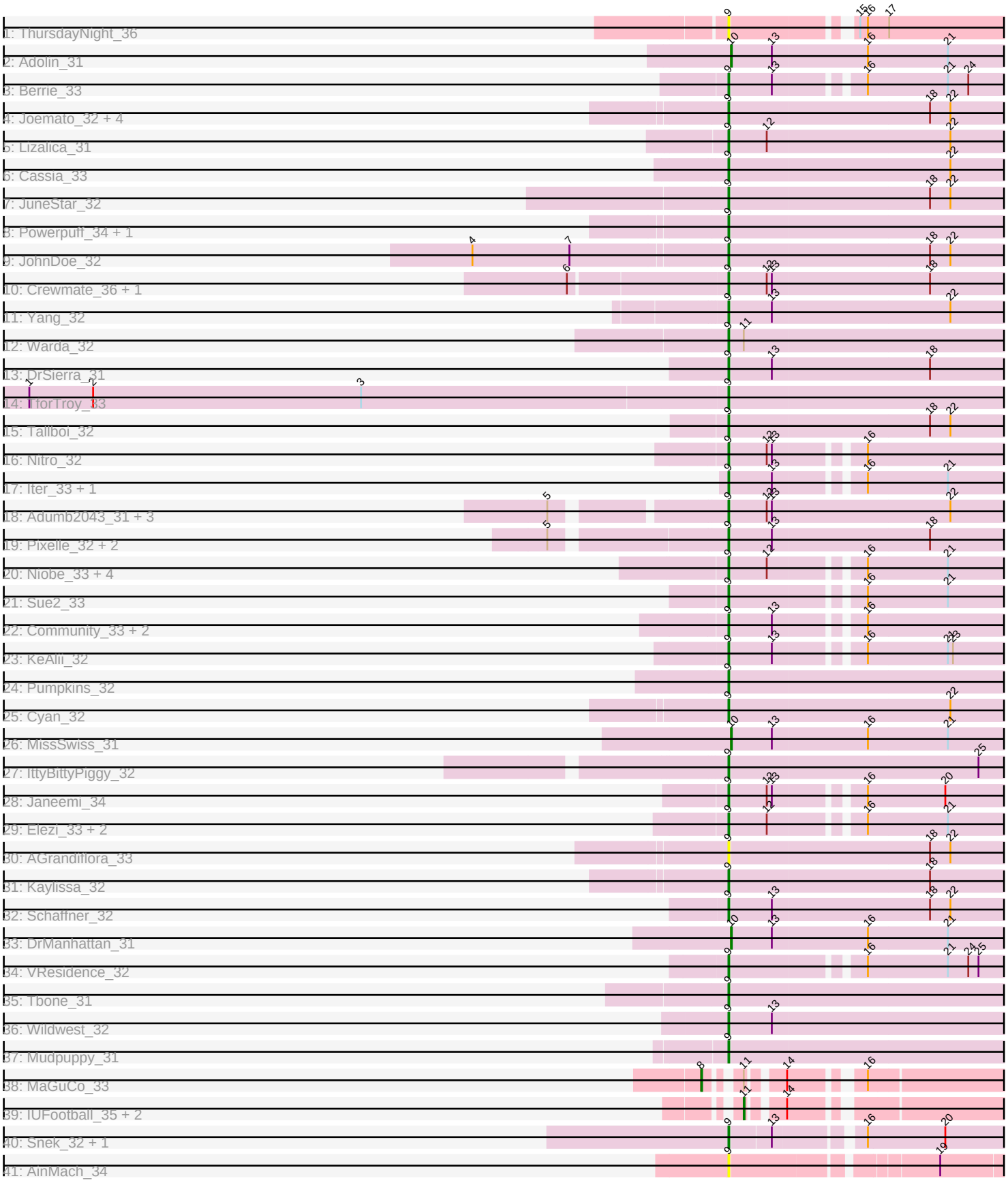
Pham 283803


1: ThursdayNight_36
2: Adolin_31
3: Berrie_33
4: Joemato_32 + 4
5: Lizalica_31
6: Cassia_33
7: JuneStar_32
8: Powerpuff_34 + 1
9: JohnDoe_32
10: Crewmate_36 + 1
11: Yang_32
12: Warda_32
13: DrSierra_31
14: IforTroy_33
15: Tallboi_32
16: Nitro_32
17: Iter_33 + 1
18: Adumb2043_31 + 3
19: Pixelle_32 + 2
20: Niobe_33 + 4
21: Sue2_33
22: Community_33 + 2
23: KeAli_32
24: Pumpkins_32
25: Cyan_32
26: MissSwiss_31
27: IttyBittyPiggy_32
28: Janeemi_34
29: Elezi_33 + 2
30: AGrandiflora_33
31: Kaylissa_32
32: Schaffner_32
33: DrManhattan_31
34: VResidence_32
35: Tbone_31
36: Wildwest_32
37: Mudpuppy_31
38: MaGuCo_33
39: IUFootball_35 + 2
40: Snek_32 + 1
41: AinMach_34

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 283803 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283803 has 64 members, 14 are drafts.

Phages represented in each track:
- Track 1 : ThursdayNight_36
- Track 2 : Adolin_31
- Track 3 : Berrie_33
- Track 4 : Joemato_32, Lego_32, Flutur_32, Simpson_34, Tutumahutu_32
- Track 5 : Lizalica_31
- Track 6 : Cassia_33
- Track 7 : JuneStar_32
- Track 8 : Powerpuff_34, YesChef_32
- Track 9 : JohnDoe_32
- Track 10 : Crewmate_36, ObiToo_35
- Track 11 : Yang_32
- Track 12 : Warda_32
- Track 13 : DrSierra_31
- Track 14 : TforTroy_33
- Track 15 : Tallboi_32
- Track 16 : Nitro_32
- Track 17 : Iter_33, Ascela_33
- Track 18 : Adumb2043_31, Turab_31, Amploria_31, AEgle_31
- Track 19 : Pixelle_32, Tian_32, Amyev_32
- Track 20 : Niobe_33, Jstan_35, Asa16_33, Eraser_33, Skelbel_34
- Track 21 : Sue2_33
- Track 22 : Community_33, Tuck_35, Phives_34
- Track 23 : KeAlii_32
- Track 24 : Pumpkins_32
- Track 25 : Cyan_32
- Track 26 : MissSwiss_31
- Track 27 : IttyBittyPiggy_32
- Track 28 : Janeemi_34
- Track 29 : Elezi_33, London_33, Subaru_34
- Track 30 : AGrandiflora_33
- Track 31 : Kaylissa_32
- Track 32 : Schaffner_32
- Track 33 : DrManhattan_31
- Track 34 : VResidence_32
- Track 35 : Tbone_31
- Track 36 : Wildwest_32
- Track 37 : Mudpuppy_31

• Track 38 : MaGuCo_33
• Track 39 : IUFootball_35, Liebe_35, Maureen_35
• Track 40 : Snek_32, Tweety19_32
• Track 41 : AinMach_34

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 44 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_31, AGrandiflora_33, Adumb2043_31, AinMach_34, Amploria_31, Amyev_32, Asa16_33, Ascela_33, Berrie_33, Cassia_33, Community_33, Crewmate_36, Cyan_32, DrSierra_31, Elezi_33, Eraser_33, Flutur_32, Iter_33, IttyBittyPiggy_32, Janeemi_34, Joemato_32, JohnDoe_32, Jstan_35, JuneStar_32, Kaylissa_32, KeAlii_32, Lego_32, Lizalica_31, London_33, Mudpuppy_31, Niobe_33, Nitro_32, ObiToo_35, Phives_34, Pixelle_32, Powerpuff_34, Pumpkins_32, Schaffner_32, Simpson_34, Skelbel_34, Snek_32, Subaru_34, Sue2_33, Tallboi_32, Tbone_31, TforTroy_33, ThursdayNight_36, 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:
• Adolin_31, DrManhattan_31, IUFootball_35, Liebe_35, MaGuCo_33, Maureen_35, MissSwiss_31,

Summary by start number:

Start 8:
• Found in 1 of 64 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MaGuCo_33 (AZ2),

Start 9:
• Found in 57 of 64 (89.1%) of genes in pham
• Manual Annotations of this start: 44 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_31 (AZ1), AGrandiflora_33 (AZ1), Adumb2043_31 (AZ1), AinMach_34 (AZ7), Amploria_31 (AZ1), Amyev_32 (AZ1), Asa16_33 (AZ1), Ascela_33 (AZ1), Berrie_33 (AZ1), Cassia_33 (AZ1), Community_33 (AZ1), Crewmate_36 (AZ1), Cyan_32 (AZ1), DrSierra_31 (AZ1), Elezi_33 (AZ1), Eraser_33 (AZ1), Flutur_32 (AZ), Iter_33 (AZ1), IttyBittyPiggy_32 (AZ1), Janeemi_34 (AZ1), Joemato_32 (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), Mudpuppy_31 (AZ1), Niobe_33 (AZ1), Nitro_32 (AZ1), ObiToo_35 (AZ1), Phives_34 (AZ1), Pixelle_32 (AZ1), Powerpuff_34 (AZ1),

Pumpkins_32 (AZ1), Schaffner_32 (AZ1), Simpson_34 (AZ1), Skelbel_34 (AZ1), Snek_32 (AZ3), Subaru_34 (AZ1), Sue2_33 (AZ1), Tallboi_32 (AZ1), Tbone_31 (AZ1), TforTroy_33 (AZ1), ThursdayNight_36 (AZ), 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 3 of 64 (4.7%) of genes in pham
• Manual Annotations of this start: 3 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adolin_31 (AZ1), DrManhattan_31 (AZ1), MissSwiss_31 (AZ1),

Start 11:
• Found in 5 of 64 (7.8%) of genes in pham
• Manual Annotations of this start: 2 of 50
• Called 60.0% of time when present
• Phage (with cluster) where this start called: IUFootball_35 (AZ2), Liebe_35 (AZ2), Maureen_35 (AZ2),

Summary by clusters:

There are 5 clusters represented in this pham: AZ7, AZ1, AZ2, AZ, AZ3,

Info for manual annotations of cluster AZ1:
•Start number 9 was manually annotated 42 times for cluster AZ1.
•Start number 10 was manually annotated 3 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 8 was manually annotated 1 time for cluster AZ2.
•Start number 11 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 44 MA's), (12, 24131), (13, 24137), (22, 24344),

Gene: AGrandiflora_33 Start: 24317, Stop: 24667, Start Num: 9
Candidate Starts for AGrandiflora_33:
(Start: 9 @24317 has 44 MA's), (18, 24548), (22, 24572),

Gene: Adolin_31 Start: 22754, Stop: 23104, Start Num: 10
Candidate Starts for Adolin_31:
(Start: 10 @22754 has 3 MA's), (13, 22802), (16, 22913), (21, 23006),

Gene: Adumb2043_31 Start: 24088, Stop: 24438, Start Num: 9
Candidate Starts for Adumb2043_31:
(5, 23911), (Start: 9 @24088 has 44 MA's), (12, 24130), (13, 24136), (22, 24343),

Gene: AinMach_34 Start: 25278, Stop: 25565, Start Num: 9
Candidate Starts for AinMach_34:
(Start: 9 @25278 has 44 MA's), (19, 25494),

Gene: Amploria_31 Start: 24088, Stop: 24438, Start Num: 9
Candidate Starts for Amploria_31:
(5, 23911), (Start: 9 @24088 has 44 MA's), (12, 24130), (13, 24136), (22, 24343),

Gene: Amyev_32 Start: 26024, Stop: 26374, Start Num: 9
Candidate Starts for Amyev_32:
(5, 25835), (Start: 9 @26024 has 44 MA's), (13, 26072), (18, 26255),

Gene: Asa16_33 Start: 26275, Stop: 26604, Start Num: 9
Candidate Starts for Asa16_33:
(Start: 9 @26275 has 44 MA's), (12, 26317), (16, 26413), (21, 26506),

Gene: Ascela_33 Start: 24466, Stop: 24795, Start Num: 9
Candidate Starts for Ascela_33:
(Start: 9 @24466 has 44 MA's), (13, 24514), (16, 24604), (21, 24697),

Gene: Berrie_33 Start: 25350, Stop: 25679, Start Num: 9
Candidate Starts for Berrie_33:
(Start: 9 @25350 has 44 MA's), (13, 25398), (16, 25488), (21, 25581), (24, 25605),

Gene: Cassia_33 Start: 24921, Stop: 25271, Start Num: 9
Candidate Starts for Cassia_33:
(Start: 9 @24921 has 44 MA's), (22, 25176),

Gene: Community_33 Start: 26474, Stop: 26803, Start Num: 9
Candidate Starts for Community_33:
(Start: 9 @26474 has 44 MA's), (13, 26522), (16, 26612),

Gene: Crewmate_36 Start: 25183, Stop: 25533, Start Num: 9
Candidate Starts for Crewmate_36:
(6, 25009), (Start: 9 @25183 has 44 MA's), (12, 25225), (13, 25231), (18, 25414),

Gene: Cyan_32 Start: 24399, Stop: 24749, Start Num: 9
Candidate Starts for Cyan_32:
(Start: 9 @24399 has 44 MA's), (22, 24654),

Gene: DrManhattan_31 Start: 22745, Stop: 23095, Start Num: 10
Candidate Starts for DrManhattan_31:
(Start: 10 @22745 has 3 MA's), (13, 22793), (16, 22904), (21, 22997),

Gene: DrSierra_31 Start: 23230, Stop: 23580, Start Num: 9
Candidate Starts for DrSierra_31:
(Start: 9 @23230 has 44 MA's), (13, 23278), (18, 23461),

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

Candidate Starts for Elezi_33:
(Start: 9 @26291 has 44 MA's), (12, 26333), (16, 26429), (21, 26522),

Gene: Eraser_33 Start: 26282, Stop: 26611, Start Num: 9
Candidate Starts for Eraser_33:
(Start: 9 @26282 has 44 MA's), (12, 26324), (16, 26420), (21, 26513),

Gene: Flutur_32 Start: 24629, Stop: 24979, Start Num: 9
Candidate Starts for Flutur_32:
(Start: 9 @24629 has 44 MA's), (18, 24860), (22, 24884),

Gene: IUFootball_35 Start: 26482, Stop: 26733, Start Num: 11
Candidate Starts for IUFootball_35:
(Start: 11 @26482 has 2 MA's), (14, 26515),

Gene: Iter_33 Start: 24465, Stop: 24794, Start Num: 9
Candidate Starts for Iter_33:
(Start: 9 @24465 has 44 MA's), (13, 24513), (16, 24603), (21, 24696),

Gene: IttyBittyPiggy_32 Start: 24503, Stop: 24853, Start Num: 9
Candidate Starts for IttyBittyPiggy_32:
(Start: 9 @24503 has 44 MA's), (25, 24791),

Gene: Janeemi_34 Start: 26490, Stop: 26819, Start Num: 9
Candidate Starts for Janeemi_34:
(Start: 9 @26490 has 44 MA's), (12, 26532), (13, 26538), (16, 26628), (20, 26718),

Gene: Joemato_32 Start: 24402, Stop: 24752, Start Num: 9
Candidate Starts for Joemato_32:
(Start: 9 @24402 has 44 MA's), (18, 24633), (22, 24657),

Gene: JohnDoe_32 Start: 24393, Stop: 24743, Start Num: 9
Candidate Starts for JohnDoe_32:
(4, 24102), (7, 24216), (Start: 9 @24393 has 44 MA's), (18, 24624), (22, 24648),

Gene: Jstan_35 Start: 26276, Stop: 26605, Start Num: 9
Candidate Starts for Jstan_35:
(Start: 9 @26276 has 44 MA's), (12, 26318), (16, 26414), (21, 26507),

Gene: JuneStar_32 Start: 26409, Stop: 26759, Start Num: 9
Candidate Starts for JuneStar_32:
(Start: 9 @26409 has 44 MA's), (18, 26640), (22, 26664),

Gene: Kaylissa_32 Start: 24365, Stop: 24715, Start Num: 9
Candidate Starts for Kaylissa_32:
(Start: 9 @24365 has 44 MA's), (18, 24596),

Gene: KeAlii_32 Start: 24404, Stop: 24733, Start Num: 9
Candidate Starts for KeAlii_32:
(Start: 9 @24404 has 44 MA's), (13, 24452), (16, 24542), (21, 24635), (23, 24641),

Gene: Lego_32 Start: 24319, Stop: 24669, Start Num: 9
Candidate Starts for Lego_32:

(Start: 9 @24319 has 44 MA's), (18, 24550), (22, 24574),

Gene: Liebe_35 Start: 26482, Stop: 26733, Start Num: 11
Candidate Starts for Liebe_35:
(Start: 11 @26482 has 2 MA's), (14, 26515),

Gene: Lizalica_31 Start: 24193, Stop: 24543, Start Num: 9
Candidate Starts for Lizalica_31:
(Start: 9 @24193 has 44 MA's), (12, 24235), (22, 24448),

Gene: London_33 Start: 26291, Stop: 26620, Start Num: 9
Candidate Starts for London_33:
(Start: 9 @26291 has 44 MA's), (12, 26333), (16, 26429), (21, 26522),

Gene: MaGuCo_33 Start: 25302, Stop: 25580, Start Num: 8
Candidate Starts for MaGuCo_33:
(Start: 8 @25302 has 1 MA's), (Start: 11 @25329 has 2 MA's), (14, 25362), (16, 25428),

Gene: Maureen_35 Start: 26482, Stop: 26733, Start Num: 11
Candidate Starts for Maureen_35:
(Start: 11 @26482 has 2 MA's), (14, 26515),

Gene: MissSwiss_31 Start: 22798, Stop: 23148, Start Num: 10
Candidate Starts for MissSwiss_31:
(Start: 10 @22798 has 3 MA's), (13, 22846), (16, 22957), (21, 23050),

Gene: Mudpuppy_31 Start: 24182, Stop: 24532, Start Num: 9
Candidate Starts for Mudpuppy_31:
(Start: 9 @24182 has 44 MA's),

Gene: Niobe_33 Start: 26276, Stop: 26605, Start Num: 9
Candidate Starts for Niobe_33:
(Start: 9 @26276 has 44 MA's), (12, 26318), (16, 26414), (21, 26507),

Gene: Nitro_32 Start: 25590, Stop: 25919, Start Num: 9
Candidate Starts for Nitro_32:
(Start: 9 @25590 has 44 MA's), (12, 25632), (13, 25638), (16, 25728),

Gene: ObiToo_35 Start: 24923, Stop: 25273, Start Num: 9
Candidate Starts for ObiToo_35:
(6, 24749), (Start: 9 @24923 has 44 MA's), (12, 24965), (13, 24971), (18, 25154),

Gene: Phives_34 Start: 26311, Stop: 26640, Start Num: 9
Candidate Starts for Phives_34:
(Start: 9 @26311 has 44 MA's), (13, 26359), (16, 26449),

Gene: Pixelle_32 Start: 26044, Stop: 26394, Start Num: 9
Candidate Starts for Pixelle_32:
(5, 25855), (Start: 9 @26044 has 44 MA's), (13, 26092), (18, 26275),

Gene: Powerpuff_34 Start: 25514, Stop: 25864, Start Num: 9
Candidate Starts for Powerpuff_34:
(Start: 9 @25514 has 44 MA's),

Gene: Pumpkins_32 Start: 25142, Stop: 25492, Start Num: 9
Candidate Starts for Pumpkins_32:
(Start: 9 @25142 has 44 MA's),

Gene: Schaffner_32 Start: 25370, Stop: 25720, Start Num: 9
Candidate Starts for Schaffner_32:
(Start: 9 @25370 has 44 MA's), (13, 25418), (18, 25601), (22, 25625),

Gene: Simpson_34 Start: 24402, Stop: 24752, Start Num: 9
Candidate Starts for Simpson_34:
(Start: 9 @24402 has 44 MA's), (18, 24633), (22, 24657),

Gene: Skelbel_34 Start: 26276, Stop: 26605, Start Num: 9
Candidate Starts for Skelbel_34:
(Start: 9 @26276 has 44 MA's), (12, 26318), (16, 26414), (21, 26507),

Gene: Snek_32 Start: 23329, Stop: 23622, Start Num: 9
Candidate Starts for Snek_32:
(Start: 9 @23329 has 44 MA's), (13, 23374), (16, 23464), (20, 23554),

Gene: Subaru_34 Start: 26291, Stop: 26620, Start Num: 9
Candidate Starts for Subaru_34:
(Start: 9 @26291 has 44 MA's), (12, 26333), (16, 26429), (21, 26522),

Gene: Sue2_33 Start: 25042, Stop: 25371, Start Num: 9
Candidate Starts for Sue2_33:
(Start: 9 @25042 has 44 MA's), (16, 25180), (21, 25273),

Gene: Tallboi_32 Start: 25621, Stop: 25971, Start Num: 9
Candidate Starts for Tallboi_32:
(Start: 9 @25621 has 44 MA's), (18, 25852), (22, 25876),

Gene: Tbone_31 Start: 24197, Stop: 24547, Start Num: 9
Candidate Starts for Tbone_31:
(Start: 9 @24197 has 44 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 44 MA's),

Gene: ThursdayNight_36 Start: 26145, Stop: 26447, Start Num: 9
Candidate Starts for ThursdayNight_36:
(Start: 9 @26145 has 44 MA's), (15, 26268), (16, 26277), (17, 26301),

Gene: Tian_32 Start: 26024, Stop: 26374, Start Num: 9
Candidate Starts for Tian_32:
(5, 25835), (Start: 9 @26024 has 44 MA's), (13, 26072), (18, 26255),

Gene: Tuck_35 Start: 26855, Stop: 27184, Start Num: 9
Candidate Starts for Tuck_35:
(Start: 9 @26855 has 44 MA's), (13, 26903), (16, 26993),

Gene: Turab_31 Start: 24088, Stop: 24438, Start Num: 9
Candidate Starts for Turab_31:
(5, 23911), (Start: 9 @24088 has 44 MA's), (12, 24130), (13, 24136), (22, 24343),

Gene: Tutumahutu_32 Start: 24369, Stop: 24719, Start Num: 9
Candidate Starts for Tutumahutu_32:
(Start: 9 @24369 has 44 MA's), (18, 24600), (22, 24624),

Gene: Tweety19_32 Start: 23328, Stop: 23621, Start Num: 9
Candidate Starts for Tweety19_32:
(Start: 9 @23328 has 44 MA's), (13, 23373), (16, 23463), (20, 23553),

Gene: VResidence_32 Start: 24360, Stop: 24689, Start Num: 9
Candidate Starts for VResidence_32:
(Start: 9 @24360 has 44 MA's), (16, 24498), (21, 24591), (24, 24615), (25, 24627),

Gene: Warda_32 Start: 24373, Stop: 24723, Start Num: 9
Candidate Starts for Warda_32:
(Start: 9 @24373 has 44 MA's), (Start: 11 @24388 has 2 MA's),

Gene: Wildwest_32 Start: 24171, Stop: 24521, Start Num: 9
Candidate Starts for Wildwest_32:
(Start: 9 @24171 has 44 MA's), (13, 24219),

Gene: Yang_32 Start: 24514, Stop: 24864, Start Num: 9
Candidate Starts for Yang_32:
(Start: 9 @24514 has 44 MA's), (13, 24562), (22, 24769),

Gene: YesChef_32 Start: 24373, Stop: 24723, Start Num: 9
Candidate Starts for YesChef_32:
(Start: 9 @24373 has 44 MA's),