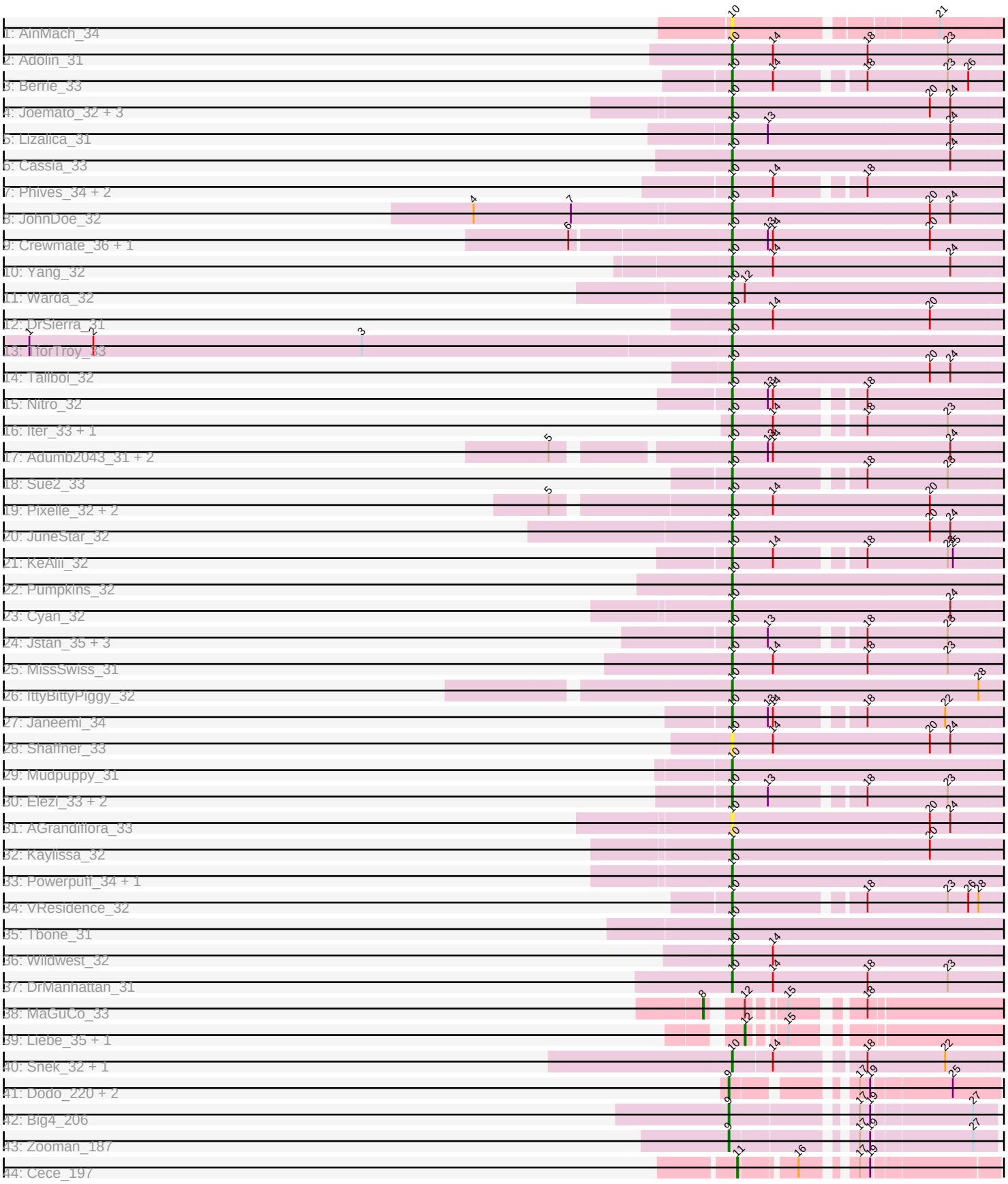
Pham 214281


1: AinMach_34
2: Adolin_31
3: Berrie_33
4: Joemato_32 + 3
5: Lizalica_31
6: Cassia_33
7: Phives_34 + 2
8: JohnDoe_32
9: Crewmate_36 + 1
10: Yang_32
11: Warda_32
12: DrSierra_31
13: ThorTroy_33
14: Tallboi_32
15: Nitro_32
16: Iter_33 + 1
17: Adumb2043_31 + 2
18: Sue2_33
19: Pixelle_32 + 2
20: JuneStar_32
21: KeAlli_32
22: Pumpkins_32
23: Cyan_32
24: Jstan_35 + 3
25: MissSwiss_31
26: IttyBittyPiggy_32
27: Janeemi_34
28: Shaffner_33
29: Mudpuppy_31
30: Elezi_33 + 2
31: AGrandiflora_33
32: Kaylissa_32
33: Powerpuff_34 + 1
34: VResidence_32
35: Tbone_31
36: Wildwest_32
37: DrManhattan_31
38: MaGuCo_33
39: Liebe_35 + 1
40: Snek_32 + 1
41: Dodo_220 + 2
42: Big4_206
43: Zooman_187
44: Cece_197

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 214281 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214281 has 65 members, 11 are drafts.

Phages represented in each track:
- Track 1 : AinMach_34
- Track 2 : Adolin_31
- Track 3 : Berrie_33
- Track 4 : Joemato_32, Lego_32, Simpson_34, Tutumahutu_32
- Track 5 : Lizalica_31
- Track 6 : Cassia_33
- Track 7 : Phives_34, Community_33, Tuck_35
- Track 8 : JohnDoe_32
- Track 9 : Crewmate_36, ObiToo_35
- Track 10 : Yang_32
- Track 11 : Warda_32
- Track 12 : DrSierra_31
- Track 13 : TforTroy_33
- Track 14 : Tallboi_32
- Track 15 : Nitro_32
- Track 16 : Iter_33, Ascela_33
- Track 17 : Adumb2043_31, Turab_31, AEgle_31
- Track 18 : Sue2_33
- Track 19 : Pixelle_32, Tian_32, Amyev_32
- Track 20 : JuneStar_32
- Track 21 : KeAlii_32
- Track 22 : Pumpkins_32
- Track 23 : Cyan_32
- Track 24 : Jstan_35, Asa16_33, Eraser_33, Niobe_33
- Track 25 : MissSwiss_31
- Track 26 : IttyBittyPiggy_32
- Track 27 : Janeemi_34
- Track 28 : Shaffner_33
- Track 29 : Mudpuppy_31
- Track 30 : Elezi_33, London_33, Subaru_34
- Track 31 : AGrandiflora_33
- Track 32 : Kaylissa_32
- Track 33 : Powerpuff_34, YesChef_32
- Track 34 : VResidence_32
- Track 35 : Tbone_31
- Track 36 : Wildwest_32
- Track 37 : DrManhattan_31

• Track 38 : MaGuCo_33
• Track 39 : Liebe_35, Maureen_35
• Track 40 : Snek_32, Tweety19_32
• Track 41 : Dodo_220, A3Wally_221, PauloDiaboli_221
• Track 42 : Big4_206
• Track 43 : Zooman_187
• Track 44 : Cece_197

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

The start number called the most often in the published annotations is 10, it was called in 46 of the 54 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_32, JohnDoe_32, Jstan_35, JuneStar_32, Kaylissa_32, KeAlii_32, Lego_32, Lizalica_31, London_33, MissSwiss_31, Mudpuppy_31, Niobe_33, Nitro_32, ObiToo_35, Phives_34, Pixelle_32, Powerpuff_34, Pumpkins_32, Shaffner_33, Simpson_34, Snek_32, Subaru_34, 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:
• A3Wally_221, Big4_206, Cece_197, Dodo_220, Liebe_35, MaGuCo_33, Maureen_35, PauloDiaboli_221, Zooman_187,

Summary by start number:

Start 8:
• Found in 1 of 65 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MaGuCo_33 (AZ2),

Start 9:
• Found in 5 of 65 (7.7%) of genes in pham
• Manual Annotations of this start: 4 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_221 (GD1), Big4_206 (GD2), Dodo_220 (GD1), PauloDiaboli_221 (GD1), Zooman_187 (GD2),

Start 10:
• Found in 56 of 65 (86.2%) of genes in pham
• Manual Annotations of this start: 46 of 54

• 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_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), MissSwiss_31 (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), Shaffner_33 (AZ1), Simpson_34 (AZ1), Snek_32 (AZ3), Subaru_34 (AZ), 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 11:
• Found in 1 of 65 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 54
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_197 (GD3),

Start 12:
• Found in 4 of 65 (6.2%) of genes in pham
• Manual Annotations of this start: 2 of 54
• 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 7 clusters represented in this pham: GD1, GD2, GD3, AZ3, AZ1, AZ2, AZ,

Info for manual annotations of cluster AZ1:
•Start number 10 was manually annotated 44 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 8 was manually annotated 1 time for cluster AZ2.
•Start number 12 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 10 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster GD1:
•Start number 9 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 9 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 11 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: A3Wally_221 Start: 119347, Stop: 119087, Start Num: 9
Candidate Starts for A3Wally_221:
(Start: 9 @119347 has 4 MA's), (17, 119239), (19, 119227), (25, 119140),

Gene: AEgle_31 Start: 24089, Stop: 24439, Start Num: 10
Candidate Starts for AEgle_31:
(5, 23912), (Start: 10 @24089 has 46 MA's), (13, 24131), (14, 24137), (24, 24344),

Gene: AGrandiflora_33 Start: 24317, Stop: 24667, Start Num: 10
Candidate Starts for AGrandiflora_33:
(Start: 10 @24317 has 46 MA's), (20, 24548), (24, 24572),

Gene: Adolin_31 Start: 22754, Stop: 23104, Start Num: 10
Candidate Starts for Adolin_31:
(Start: 10 @22754 has 46 MA's), (14, 22802), (18, 22913), (23, 23006),

Gene: Adumb2043_31 Start: 24088, Stop: 24438, Start Num: 10
Candidate Starts for Adumb2043_31:
(5, 23911), (Start: 10 @24088 has 46 MA's), (13, 24130), (14, 24136), (24, 24343),

Gene: AinMach_34 Start: 25278, Stop: 25565, Start Num: 10
Candidate Starts for AinMach_34:
(Start: 10 @25278 has 46 MA's), (21, 25494),

Gene: Amyev_32 Start: 26024, Stop: 26374, Start Num: 10
Candidate Starts for Amyev_32:
(5, 25835), (Start: 10 @26024 has 46 MA's), (14, 26072), (20, 26255),

Gene: Asa16_33 Start: 26275, Stop: 26604, Start Num: 10
Candidate Starts for Asa16_33:
(Start: 10 @26275 has 46 MA's), (13, 26317), (18, 26413), (23, 26506),

Gene: Ascela_33 Start: 24466, Stop: 24795, Start Num: 10
Candidate Starts for Ascela_33:
(Start: 10 @24466 has 46 MA's), (14, 24514), (18, 24604), (23, 24697),

Gene: Berrie_33 Start: 25350, Stop: 25679, Start Num: 10
Candidate Starts for Berrie_33:
(Start: 10 @25350 has 46 MA's), (14, 25398), (18, 25488), (23, 25581), (26, 25605),

Gene: Big4_206 Start: 115772, Stop: 115500, Start Num: 9
Candidate Starts for Big4_206:
(Start: 9 @115772 has 4 MA's), (17, 115649), (19, 115637), (27, 115526),

Gene: Cassia_33 Start: 24921, Stop: 25271, Start Num: 10
Candidate Starts for Cassia_33:
(Start: 10 @24921 has 46 MA's), (24, 25176),

Gene: Cece_197 Start: 120223, Stop: 119972, Start Num: 11
Candidate Starts for Cece_197:
(Start: 11 @120223 has 1 MA's), (16, 120166), (17, 120121), (19, 120109),

Gene: Community_33 Start: 26474, Stop: 26803, Start Num: 10
Candidate Starts for Community_33:
(Start: 10 @26474 has 46 MA's), (14, 26522), (18, 26612),

Gene: Crewmate_36 Start: 25183, Stop: 25533, Start Num: 10
Candidate Starts for Crewmate_36:
(6, 25009), (Start: 10 @25183 has 46 MA's), (13, 25225), (14, 25231), (20, 25414),

Gene: Cyan_32 Start: 24399, Stop: 24749, Start Num: 10
Candidate Starts for Cyan_32:
(Start: 10 @24399 has 46 MA's), (24, 24654),

Gene: Dodo_220 Start: 119149, Stop: 118889, Start Num: 9
Candidate Starts for Dodo_220:
(Start: 9 @119149 has 4 MA's), (17, 119041), (19, 119029), (25, 118942),

Gene: DrManhattan_31 Start: 22745, Stop: 23095, Start Num: 10
Candidate Starts for DrManhattan_31:
(Start: 10 @22745 has 46 MA's), (14, 22793), (18, 22904), (23, 22997),

Gene: DrSierra_31 Start: 23230, Stop: 23580, Start Num: 10
Candidate Starts for DrSierra_31:
(Start: 10 @23230 has 46 MA's), (14, 23278), (20, 23461),

Gene: Elezi_33 Start: 26291, Stop: 26620, Start Num: 10
Candidate Starts for Elezi_33:
(Start: 10 @26291 has 46 MA's), (13, 26333), (18, 26429), (23, 26522),

Gene: Eraser_33 Start: 26282, Stop: 26611, Start Num: 10
Candidate Starts for Eraser_33:
(Start: 10 @26282 has 46 MA's), (13, 26324), (18, 26420), (23, 26513),

Gene: Iter_33 Start: 24465, Stop: 24794, Start Num: 10
Candidate Starts for Iter_33:
(Start: 10 @24465 has 46 MA's), (14, 24513), (18, 24603), (23, 24696),

Gene: IttyBittyPiggy_32 Start: 24503, Stop: 24853, Start Num: 10
Candidate Starts for IttyBittyPiggy_32:
(Start: 10 @24503 has 46 MA's), (28, 24791),

Gene: Janeemi_34 Start: 26490, Stop: 26819, Start Num: 10
Candidate Starts for Janeemi_34:
(Start: 10 @26490 has 46 MA's), (13, 26532), (14, 26538), (18, 26628), (22, 26718),

Gene: Joemato_32 Start: 24402, Stop: 24752, Start Num: 10
Candidate Starts for Joemato_32:
(Start: 10 @24402 has 46 MA's), (20, 24633), (24, 24657),

Gene: JohnDoe_32 Start: 24393, Stop: 24743, Start Num: 10
Candidate Starts for JohnDoe_32:
(4, 24102), (7, 24216), (Start: 10 @24393 has 46 MA's), (20, 24624), (24, 24648),

Gene: Jstan_35 Start: 26276, Stop: 26605, Start Num: 10
Candidate Starts for Jstan_35:
(Start: 10 @26276 has 46 MA's), (13, 26318), (18, 26414), (23, 26507),

Gene: JuneStar_32 Start: 26409, Stop: 26759, Start Num: 10
Candidate Starts for JuneStar_32:
(Start: 10 @26409 has 46 MA's), (20, 26640), (24, 26664),

Gene: Kaylissa_32 Start: 24365, Stop: 24715, Start Num: 10
Candidate Starts for Kaylissa_32:
(Start: 10 @24365 has 46 MA's), (20, 24596),

Gene: KeAlii_32 Start: 24404, Stop: 24733, Start Num: 10
Candidate Starts for KeAlii_32:
(Start: 10 @24404 has 46 MA's), (14, 24452), (18, 24542), (23, 24635), (25, 24641),

Gene: Lego_32 Start: 24319, Stop: 24669, Start Num: 10
Candidate Starts for Lego_32:
(Start: 10 @24319 has 46 MA's), (20, 24550), (24, 24574),

Gene: Liebe_35 Start: 26482, Stop: 26733, Start Num: 12
Candidate Starts for Liebe_35:
(Start: 12 @26482 has 2 MA's), (15, 26515),

Gene: Lizalica_31 Start: 24193, Stop: 24543, Start Num: 10
Candidate Starts for Lizalica_31:
(Start: 10 @24193 has 46 MA's), (13, 24235), (24, 24448),

Gene: London_33 Start: 26291, Stop: 26620, Start Num: 10
Candidate Starts for London_33:
(Start: 10 @26291 has 46 MA's), (13, 26333), (18, 26429), (23, 26522),

Gene: MaGuCo_33 Start: 25302, Stop: 25580, Start Num: 8
Candidate Starts for MaGuCo_33:
(Start: 8 @25302 has 1 MA's), (Start: 12 @25329 has 2 MA's), (15, 25362), (18, 25428),

Gene: Maureen_35 Start: 26482, Stop: 26733, Start Num: 12
Candidate Starts for Maureen_35:
(Start: 12 @26482 has 2 MA's), (15, 26515),

Gene: MissSwiss_31 Start: 22798, Stop: 23148, Start Num: 10
Candidate Starts for MissSwiss_31:
(Start: 10 @22798 has 46 MA's), (14, 22846), (18, 22957), (23, 23050),

Gene: Mudpuppy_31 Start: 24182, Stop: 24532, Start Num: 10
Candidate Starts for Mudpuppy_31:
(Start: 10 @24182 has 46 MA's),

Gene: Niobe_33 Start: 26276, Stop: 26605, Start Num: 10
Candidate Starts for Niobe_33:
(Start: 10 @26276 has 46 MA's), (13, 26318), (18, 26414), (23, 26507),

Gene: Nitro_32 Start: 25590, Stop: 25919, Start Num: 10

Candidate Starts for Nitro_32:
(Start: 10 @25590 has 46 MA's), (13, 25632), (14, 25638), (18, 25728),

Gene: ObiToo_35 Start: 24923, Stop: 25273, Start Num: 10
Candidate Starts for ObiToo_35:
(6, 24749), (Start: 10 @24923 has 46 MA's), (13, 24965), (14, 24971), (20, 25154),

Gene: PauloDiaboli_221 Start: 117560, Stop: 117300, Start Num: 9
Candidate Starts for PauloDiaboli_221:
(Start: 9 @117560 has 4 MA's), (17, 117452), (19, 117440), (25, 117353),

Gene: Phives_34 Start: 26311, Stop: 26640, Start Num: 10
Candidate Starts for Phives_34:
(Start: 10 @26311 has 46 MA's), (14, 26359), (18, 26449),

Gene: Pixelle_32 Start: 26044, Stop: 26394, Start Num: 10
Candidate Starts for Pixelle_32:
(5, 25855), (Start: 10 @26044 has 46 MA's), (14, 26092), (20, 26275),

Gene: Powerpuff_34 Start: 25514, Stop: 25864, Start Num: 10
Candidate Starts for Powerpuff_34:
(Start: 10 @25514 has 46 MA's),

Gene: Pumpkins_32 Start: 25142, Stop: 25492, Start Num: 10
Candidate Starts for Pumpkins_32:
(Start: 10 @25142 has 46 MA's),

Gene: Shaffner_33 Start: 25370, Stop: 25720, Start Num: 10
Candidate Starts for Shaffner_33:
(Start: 10 @25370 has 46 MA's), (14, 25418), (20, 25601), (24, 25625),

Gene: Simpson_34 Start: 24402, Stop: 24752, Start Num: 10
Candidate Starts for Simpson_34:
(Start: 10 @24402 has 46 MA's), (20, 24633), (24, 24657),

Gene: Snek_32 Start: 23329, Stop: 23622, Start Num: 10
Candidate Starts for Snek_32:
(Start: 10 @23329 has 46 MA's), (14, 23374), (18, 23464), (22, 23554),

Gene: Subaru_34 Start: 26291, Stop: 26620, Start Num: 10
Candidate Starts for Subaru_34:
(Start: 10 @26291 has 46 MA's), (13, 26333), (18, 26429), (23, 26522),

Gene: Sue2_33 Start: 25042, Stop: 25371, Start Num: 10
Candidate Starts for Sue2_33:
(Start: 10 @25042 has 46 MA's), (18, 25180), (23, 25273),

Gene: Tallboi_32 Start: 25621, Stop: 25971, Start Num: 10
Candidate Starts for Tallboi_32:
(Start: 10 @25621 has 46 MA's), (20, 25852), (24, 25876),

Gene: Tbone_31 Start: 24197, Stop: 24547, Start Num: 10
Candidate Starts for Tbone_31:

(Start: 10 @24197 has 46 MA's),

Gene: TforTroy_33 Start: 25014, Stop: 25364, Start Num: 10
Candidate Starts for TforTroy_33:
(1, 24204), (2, 24279), (3, 24594), (Start: 10 @25014 has 46 MA's),

Gene: Tian_32 Start: 26024, Stop: 26374, Start Num: 10
Candidate Starts for Tian_32:
(5, 25835), (Start: 10 @26024 has 46 MA's), (14, 26072), (20, 26255),

Gene: Tuck_35 Start: 26855, Stop: 27184, Start Num: 10
Candidate Starts for Tuck_35:
(Start: 10 @26855 has 46 MA's), (14, 26903), (18, 26993),

Gene: Turab_31 Start: 24088, Stop: 24438, Start Num: 10
Candidate Starts for Turab_31:
(5, 23911), (Start: 10 @24088 has 46 MA's), (13, 24130), (14, 24136), (24, 24343),

Gene: Tutumahutu_32 Start: 24369, Stop: 24719, Start Num: 10
Candidate Starts for Tutumahutu_32:
(Start: 10 @24369 has 46 MA's), (20, 24600), (24, 24624),

Gene: Tweety19_32 Start: 23328, Stop: 23621, Start Num: 10
Candidate Starts for Tweety19_32:
(Start: 10 @23328 has 46 MA's), (14, 23373), (18, 23463), (22, 23553),

Gene: VResidence_32 Start: 24360, Stop: 24689, Start Num: 10
Candidate Starts for VResidence_32:
(Start: 10 @24360 has 46 MA's), (18, 24498), (23, 24591), (26, 24615), (28, 24627),

Gene: Warda_32 Start: 24373, Stop: 24723, Start Num: 10
Candidate Starts for Warda_32:
(Start: 10 @24373 has 46 MA's), (Start: 12 @24388 has 2 MA's),

Gene: Wildwest_32 Start: 24171, Stop: 24521, Start Num: 10
Candidate Starts for Wildwest_32:
(Start: 10 @24171 has 46 MA's), (14, 24219),

Gene: Yang_32 Start: 24514, Stop: 24864, Start Num: 10
Candidate Starts for Yang_32:
(Start: 10 @24514 has 46 MA's), (14, 24562), (24, 24769),

Gene: YesChef_32 Start: 24373, Stop: 24723, Start Num: 10
Candidate Starts for YesChef_32:
(Start: 10 @24373 has 46 MA's),

Gene: Zooman_187 Start: 111993, Stop: 111724, Start Num: 9
Candidate Starts for Zooman_187:
(Start: 9 @111993 has 4 MA's), (17, 111873), (19, 111861), (27, 111750),