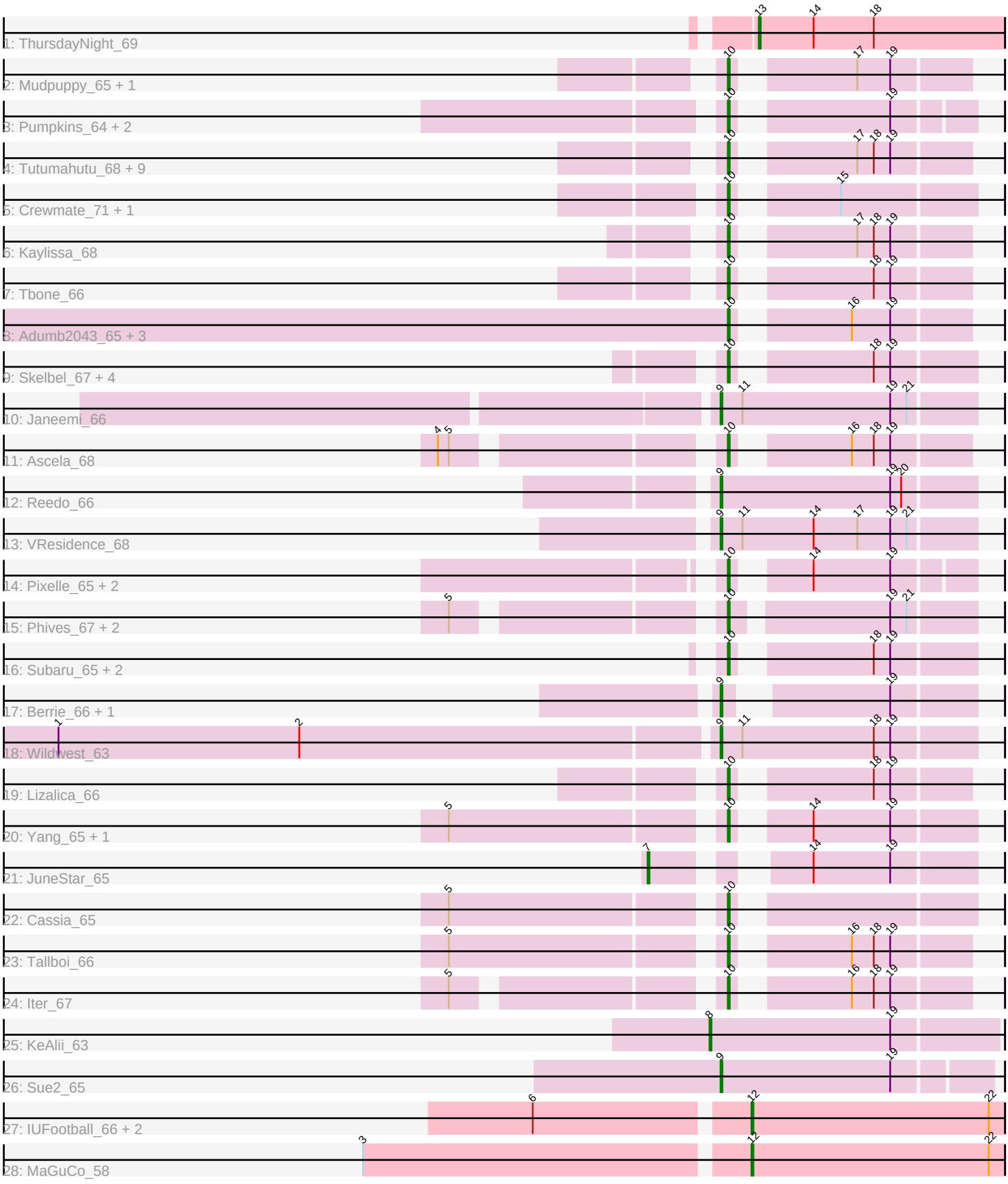
Pham 347665


1: ThursdayNight_69
2: Mudpuppy_65 + 1
3: Pumpkins_64 + 2
4: Tutumahutu_68 + 9
5: Crewmate_71 + 1
6: Kaylissa_68
7: Tbone_66
8: Adumb2043_65 + 3
9: Skelbel_67 + 4
10: Janeemi_66
11: Ascela_68
12: Reedo_66
13: VResidence_68
14: Pixelle_65 + 2
15: Phives_67 + 2
16: Subaru_65 + 2
17: Berrie_66 + 1
18: Wildwest_63
19: Lizalica_66
20: Yang_65 + 1
21: JuneStar_65
22: Cassia_65
23: Tallboi_66
24: Iter_67
25: KeAlii_63
26: Sue2_65
27: IUFootball_66 + 2
28: MaGuCo_58

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 347665 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347665 has 58 members, 8 are drafts.

Phages represented in each track:
• Track 1 : ThursdayNight_69
• Track 2 : Mudpuppy_65, Warda_67
• Track 3 : Pumpkins_64, IttyBittyPiggy_67, TforTroy_66
• Track 4 : Tutumahutu_68, Powerpuff_68, Flutur_66, Joemato_68, YesChef_66, Simpson_72, Lego_66, AGrandiflora_68, Cyan_67, JohnDoe_67
• Track 5 : Crewmate_71, ObiToo_71
• Track 6 : Kaylissa_68
• Track 7 : Tbone_66
• Track 8 : Adumb2043_65, Turab_64, Amploria_67, AEgle_64
• Track 9 : Skelbel_67, Eraser_66, Asa16_66, London_66, Niobe_66
• Track 10 : Janeemi_66
• Track 11 : Ascela_68
• Track 12 : Reedo_66
• Track 13 : VResidence_68
• Track 14 : Pixelle_65, Amyev_65, Tian_64
• Track 15 : Phives_67, Tuck_66, Community_66
• Track 16 : Subaru_65, Jstan_67, Elezi_65
• Track 17 : Berrie_66, DrSierra_64
• Track 18 : Wildwest_63
• Track 19 : Lizalica_66
• Track 20 : Yang_65, Schaffner_64
• Track 21 : JuneStar_65
• Track 22 : Cassia_65
• Track 23 : Tallboi_66
• Track 24 : Iter_67
• Track 25 : KeAlii_63
• Track 26 : Sue2_65
• Track 27 : IUFootball_66, Liebe_65, Maureen_65
• Track 28 : MaGuCo_58

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

Genes that call this "Most Annotated" start:
• AEgle_64, AGrandiflora_68, Adumb2043_65, Amploria_67, Amyev_65, Asa16_66, Ascela_68, Cassia_65, Community_66, Crewmate_71, Cyan_67, Elezi_65, Eraser_66, Flutur_66, Iter_67, IttyBittyPiggy_67, Joemato_68, JohnDoe_67, Jstan_67, Kaylissa_68, Lego_66, Lizalica_66, London_66, Mudpuppy_65, Niobe_66, ObiToo_71, Phives_67, Pixelle_65, Powerpuff_68, Pumpkins_64, Schaffner_64, Simpson_72, Skelbel_67, Subaru_65, Tallboi_66, Tbone_66, TforTroy_66, Tian_64, Tuck_66, Turab_64, Tutumahutu_68, Warda_67, Yang_65, YesChef_66,

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

Genes that do not have the "Most Annotated" start:
• Berrie_66, DrSierra_64, IUFootball_66, Janeemi_66, JuneStar_65, KeAlii_63, Liebe_65, MaGuCo_58, Maureen_65, Reedo_66, Sue2_65, ThursdayNight_69, VResidence_68, Wildwest_63,

Summary by start number:

Start 7:
• Found in 1 of 58 (1.7%) 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: JuneStar_65 (AZ1),

Start 8:
• Found in 1 of 58 (1.7%) 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: KeAlii_63 (AZ1),

Start 9:
• Found in 7 of 58 (12.1%) of genes in pham
• Manual Annotations of this start: 7 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Berrie_66 (AZ1), DrSierra_64 (AZ1), Janeemi_66 (AZ1), Reedo_66 (AZ1), Sue2_65 (AZ1), VResidence_68 (AZ1), Wildwest_63 (AZ1),

Start 10:
• Found in 44 of 58 (75.9%) of genes in pham
• Manual Annotations of this start: 36 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_64 (AZ1), AGrandiflora_68 (AZ1), Adumb2043_65 (AZ1), Amploria_67 (AZ1), Amyev_65 (AZ1), Asa16_66 (AZ1), Ascela_68 (AZ1), Cassia_65 (AZ1), Community_66 (AZ1), Crewmate_71 (AZ1), Cyan_67 (AZ1), Elezi_65 (AZ1), Eraser_66 (AZ1), Flutur_66 (AZ), Iter_67 (AZ1), IttyBittyPiggy_67 (AZ1), Joemato_68 (AZ1), JohnDoe_67 (AZ1), Jstan_67 (AZ1), Kaylissa_68 (AZ1), Lego_66 (AZ1), Lizalica_66 (AZ1), London_66 (AZ1), Mudpuppy_65 (AZ1), Niobe_66 (AZ1), ObiToo_71 (AZ1), Phives_67 (AZ1), Pixelle_65 (AZ1), Powerpuff_68 (AZ1), Pumpkins_64 (AZ1), Schaffner_64 (AZ1), Simpson_72 (AZ1), Skelbel_67 (AZ1), Subaru_65 (AZ1), Tallboi_66 (AZ1), Tbone_66

(AZ1), TforTroy_66 (AZ1), Tian_64 (AZ1), Tuck_66 (AZ1), Turab_64 (AZ1), Tutumahutu_68 (AZ1), Warda_67 (AZ1), Yang_65 (AZ1), YesChef_66 (AZ1),

Start 12:
• Found in 4 of 58 (6.9%) of genes in pham
• Manual Annotations of this start: 4 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_66 (AZ2), Liebe_65 (AZ2), MaGuCo_58 (AZ2), Maureen_65 (AZ2),

Start 13:
• Found in 1 of 58 (1.7%) 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: ThursdayNight_69 (AZ),

Summary by clusters:

There are 3 clusters represented in this pham: AZ1, AZ2, AZ,

Info for manual annotations of cluster AZ:
•Start number 13 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 7 was manually annotated 1 time for cluster AZ1.
•Start number 8 was manually annotated 1 time for cluster AZ1.
•Start number 9 was manually annotated 7 times for cluster AZ1.
•Start number 10 was manually annotated 36 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 12 was manually annotated 4 times for cluster AZ2.

Gene Information:

Gene: AEgle_64 Start: 41818, Stop: 41931, Start Num: 10
Candidate Starts for AEgle_64:
(Start: 10 @41818 has 36 MA's), (16, 41869), (19, 41890),

Gene: AGrandiflora_68 Start: 42717, Stop: 42830, Start Num: 10
Candidate Starts for AGrandiflora_68:
(Start: 10 @42717 has 36 MA's), (17, 42771), (18, 42780), (19, 42789),

Gene: Adumb2043_65 Start: 41842, Stop: 41955, Start Num: 10
Candidate Starts for Adumb2043_65:
(Start: 10 @41842 has 36 MA's), (16, 41893), (19, 41914),

Gene: Amploria_67 Start: 42022, Stop: 42135, Start Num: 10
Candidate Starts for Amploria_67:
(Start: 10 @42022 has 36 MA's), (16, 42073), (19, 42094),

Gene: Amyev_65 Start: 43046, Stop: 43159, Start Num: 10

Candidate Starts for Amyev_65:
(Start: 10 @43046 has 36 MA's), (14, 43076), (19, 43118),

Gene: Asa16_66 Start: 42403, Stop: 42519, Start Num: 10
Candidate Starts for Asa16_66:
(Start: 10 @42403 has 36 MA's), (18, 42466), (19, 42475),

Gene: Ascela_68 Start: 42885, Stop: 42998, Start Num: 10
Candidate Starts for Ascela_68:
(4, 42753), (5, 42759), (Start: 10 @42885 has 36 MA's), (16, 42936), (18, 42948), (19, 42957),

Gene: Berrie_66 Start: 42497, Stop: 42613, Start Num: 9
Candidate Starts for Berrie_66:
(Start: 9 @42497 has 7 MA's), (19, 42569),

Gene: Cassia_65 Start: 42169, Stop: 42285, Start Num: 10
Candidate Starts for Cassia_65:
(5, 42031), (Start: 10 @42169 has 36 MA's),

Gene: Community_66 Start: 42765, Stop: 42887, Start Num: 10
Candidate Starts for Community_66:
(5, 42639), (Start: 10 @42765 has 36 MA's), (19, 42843), (21, 42852),

Gene: Crewmate_71 Start: 43128, Stop: 43244, Start Num: 10
Candidate Starts for Crewmate_71:
(Start: 10 @43128 has 36 MA's), (15, 43173),

Gene: Cyan_67 Start: 42461, Stop: 42574, Start Num: 10
Candidate Starts for Cyan_67:
(Start: 10 @42461 has 36 MA's), (17, 42515), (18, 42524), (19, 42533),

Gene: DrSierra_64 Start: 41559, Stop: 41696, Start Num: 9
Candidate Starts for DrSierra_64:
(Start: 9 @41559 has 7 MA's), (19, 41652),

Gene: Elezi_65 Start: 42160, Stop: 42276, Start Num: 10
Candidate Starts for Elezi_65:
(Start: 10 @42160 has 36 MA's), (18, 42223), (19, 42232),

Gene: Eraser_66 Start: 42410, Stop: 42526, Start Num: 10
Candidate Starts for Eraser_66:
(Start: 10 @42410 has 36 MA's), (18, 42473), (19, 42482),

Gene: Flutur_66 Start: 42742, Stop: 42855, Start Num: 10
Candidate Starts for Flutur_66:
(Start: 10 @42742 has 36 MA's), (17, 42796), (18, 42805), (19, 42814),

Gene: IUFootball_66 Start: 43748, Stop: 43885, Start Num: 12
Candidate Starts for IUFootball_66:
(6, 43637), (Start: 12 @43748 has 4 MA's), (22, 43877),

Gene: Iter_67 Start: 42656, Stop: 42769, Start Num: 10
Candidate Starts for Iter_67:

(5, 42530), (Start: 10 @42656 has 36 MA's), (16, 42707), (18, 42719), (19, 42728),

Gene: IttyBittyPiggy_67 Start: 40890, Stop: 41003, Start Num: 10
Candidate Starts for IttyBittyPiggy_67:
(Start: 10 @40890 has 36 MA's), (19, 40962),

Gene: Janeemi_66 Start: 42543, Stop: 42680, Start Num: 9
Candidate Starts for Janeemi_66:
(Start: 9 @42543 has 7 MA's), (11, 42555), (19, 42636), (21, 42645),

Gene: Joemato_68 Start: 42638, Stop: 42751, Start Num: 10
Candidate Starts for Joemato_68:
(Start: 10 @42638 has 36 MA's), (17, 42692), (18, 42701), (19, 42710),

Gene: JohnDoe_67 Start: 42555, Stop: 42668, Start Num: 10
Candidate Starts for JohnDoe_67:
(Start: 10 @42555 has 36 MA's), (17, 42609), (18, 42618), (19, 42627),

Gene: Jstan_67 Start: 42164, Stop: 42280, Start Num: 10
Candidate Starts for Jstan_67:
(Start: 10 @42164 has 36 MA's), (18, 42227), (19, 42236),

Gene: JuneStar_65 Start: 43264, Stop: 43410, Start Num: 7
Candidate Starts for JuneStar_65:
(Start: 7 @43264 has 1 MA's), (14, 43324), (19, 43366),

Gene: Kaylissa_68 Start: 42914, Stop: 43027, Start Num: 10
Candidate Starts for Kaylissa_68:
(Start: 10 @42914 has 36 MA's), (17, 42968), (18, 42977), (19, 42986),

Gene: KeAlii_63 Start: 40502, Stop: 40657, Start Num: 8
Candidate Starts for KeAlii_63:
(Start: 8 @40502 has 1 MA's), (19, 40601),

Gene: Lego_66 Start: 42236, Stop: 42349, Start Num: 10
Candidate Starts for Lego_66:
(Start: 10 @42236 has 36 MA's), (17, 42290), (18, 42299), (19, 42308),

Gene: Liebe_65 Start: 43747, Stop: 43884, Start Num: 12
Candidate Starts for Liebe_65:
(6, 43636), (Start: 12 @43747 has 4 MA's), (22, 43876),

Gene: Lizalica_66 Start: 41835, Stop: 41948, Start Num: 10
Candidate Starts for Lizalica_66:
(Start: 10 @41835 has 36 MA's), (18, 41898), (19, 41907),

Gene: London_66 Start: 42401, Stop: 42517, Start Num: 10
Candidate Starts for London_66:
(Start: 10 @42401 has 36 MA's), (18, 42464), (19, 42473),

Gene: MaGuCo_58 Start: 41747, Stop: 41884, Start Num: 12
Candidate Starts for MaGuCo_58:
(3, 41543), (Start: 12 @41747 has 4 MA's), (22, 41876),

Gene: Maureen_65 Start: 43746, Stop: 43883, Start Num: 12
Candidate Starts for Maureen_65:
(6, 43635), (Start: 12 @43746 has 4 MA's), (22, 43875),

Gene: Mudpuppy_65 Start: 42601, Stop: 42714, Start Num: 10
Candidate Starts for Mudpuppy_65:
(Start: 10 @42601 has 36 MA's), (17, 42655), (19, 42673),

Gene: Niobe_66 Start: 42404, Stop: 42520, Start Num: 10
Candidate Starts for Niobe_66:
(Start: 10 @42404 has 36 MA's), (18, 42467), (19, 42476),

Gene: ObiToo_71 Start: 42744, Stop: 42860, Start Num: 10
Candidate Starts for ObiToo_71:
(Start: 10 @42744 has 36 MA's), (15, 42789),

Gene: Phives_67 Start: 42880, Stop: 43002, Start Num: 10
Candidate Starts for Phives_67:
(5, 42754), (Start: 10 @42880 has 36 MA's), (19, 42958), (21, 42967),

Gene: Pixelle_65 Start: 43147, Stop: 43260, Start Num: 10
Candidate Starts for Pixelle_65:
(Start: 10 @43147 has 36 MA's), (14, 43177), (19, 43219),

Gene: Powerpuff_68 Start: 43440, Stop: 43553, Start Num: 10
Candidate Starts for Powerpuff_68:
(Start: 10 @43440 has 36 MA's), (17, 43494), (18, 43503), (19, 43512),

Gene: Pumpkins_64 Start: 42687, Stop: 42800, Start Num: 10
Candidate Starts for Pumpkins_64:
(Start: 10 @42687 has 36 MA's), (19, 42759),

Gene: Reedo_66 Start: 40664, Stop: 40801, Start Num: 9
Candidate Starts for Reedo_66:
(Start: 9 @40664 has 7 MA's), (19, 40757), (20, 40763),

Gene: Schaffner_64 Start: 42370, Stop: 42486, Start Num: 10
Candidate Starts for Schaffner_64:
(5, 42232), (Start: 10 @42370 has 36 MA's), (14, 42400), (19, 42442),

Gene: Simpson_72 Start: 42642, Stop: 42755, Start Num: 10
Candidate Starts for Simpson_72:
(Start: 10 @42642 has 36 MA's), (17, 42696), (18, 42705), (19, 42714),

Gene: Skelbel_67 Start: 42404, Stop: 42520, Start Num: 10
Candidate Starts for Skelbel_67:
(Start: 10 @42404 has 36 MA's), (18, 42467), (19, 42476),

Gene: Subaru_65 Start: 42160, Stop: 42276, Start Num: 10
Candidate Starts for Subaru_65:
(Start: 10 @42160 has 36 MA's), (18, 42223), (19, 42232),

Gene: Sue2_65 Start: 41140, Stop: 41283, Start Num: 9
Candidate Starts for Sue2_65:
(Start: 9 @41140 has 7 MA's), (19, 41233),

Gene: Tallboi_66 Start: 42412, Stop: 42525, Start Num: 10
Candidate Starts for Tallboi_66:
(5, 42274), (Start: 10 @42412 has 36 MA's), (16, 42463), (18, 42475), (19, 42484),

Gene: Tbone_66 Start: 42888, Stop: 43001, Start Num: 10
Candidate Starts for Tbone_66:
(Start: 10 @42888 has 36 MA's), (18, 42951), (19, 42960),

Gene: TforTroy_66 Start: 42341, Stop: 42454, Start Num: 10
Candidate Starts for TforTroy_66:
(Start: 10 @42341 has 36 MA's), (19, 42413),

Gene: ThursdayNight_69 Start: 43429, Stop: 43563, Start Num: 13
Candidate Starts for ThursdayNight_69:
(Start: 13 @43429 has 1 MA's), (14, 43459), (18, 43492),

Gene: Tian_64 Start: 43045, Stop: 43158, Start Num: 10
Candidate Starts for Tian_64:
(Start: 10 @43045 has 36 MA's), (14, 43075), (19, 43117),

Gene: Tuck_66 Start: 42668, Stop: 42790, Start Num: 10
Candidate Starts for Tuck_66:
(5, 42542), (Start: 10 @42668 has 36 MA's), (19, 42746), (21, 42755),

Gene: Turab_64 Start: 41862, Stop: 41975, Start Num: 10
Candidate Starts for Turab_64:
(Start: 10 @41862 has 36 MA's), (16, 41913), (19, 41934),

Gene: Tutumahutu_68 Start: 42483, Stop: 42596, Start Num: 10
Candidate Starts for Tutumahutu_68:
(Start: 10 @42483 has 36 MA's), (17, 42537), (18, 42546), (19, 42555),

Gene: VResidence_68 Start: 40839, Stop: 40976, Start Num: 9
Candidate Starts for VResidence_68:
(Start: 9 @40839 has 7 MA's), (11, 40851), (14, 40890), (17, 40914), (19, 40932), (21, 40941),

Gene: Warda_67 Start: 42614, Stop: 42727, Start Num: 10
Candidate Starts for Warda_67:
(Start: 10 @42614 has 36 MA's), (17, 42668), (19, 42686),

Gene: Wildwest_63 Start: 42554, Stop: 42691, Start Num: 9
Candidate Starts for Wildwest_63:
(1, 42200), (2, 42332), (Start: 9 @42554 has 7 MA's), (11, 42566), (18, 42638), (19, 42647),

Gene: Yang_65 Start: 41984, Stop: 42100, Start Num: 10
Candidate Starts for Yang_65:
(5, 41846), (Start: 10 @41984 has 36 MA's), (14, 42014), (19, 42056),

Gene: YesChef_66 Start: 42299, Stop: 42412, Start Num: 10

Candidate Starts for YesChef_66:
(Start: 10 @42299 has 36 MA's), (17, 42353), (18, 42362), (19, 42371),