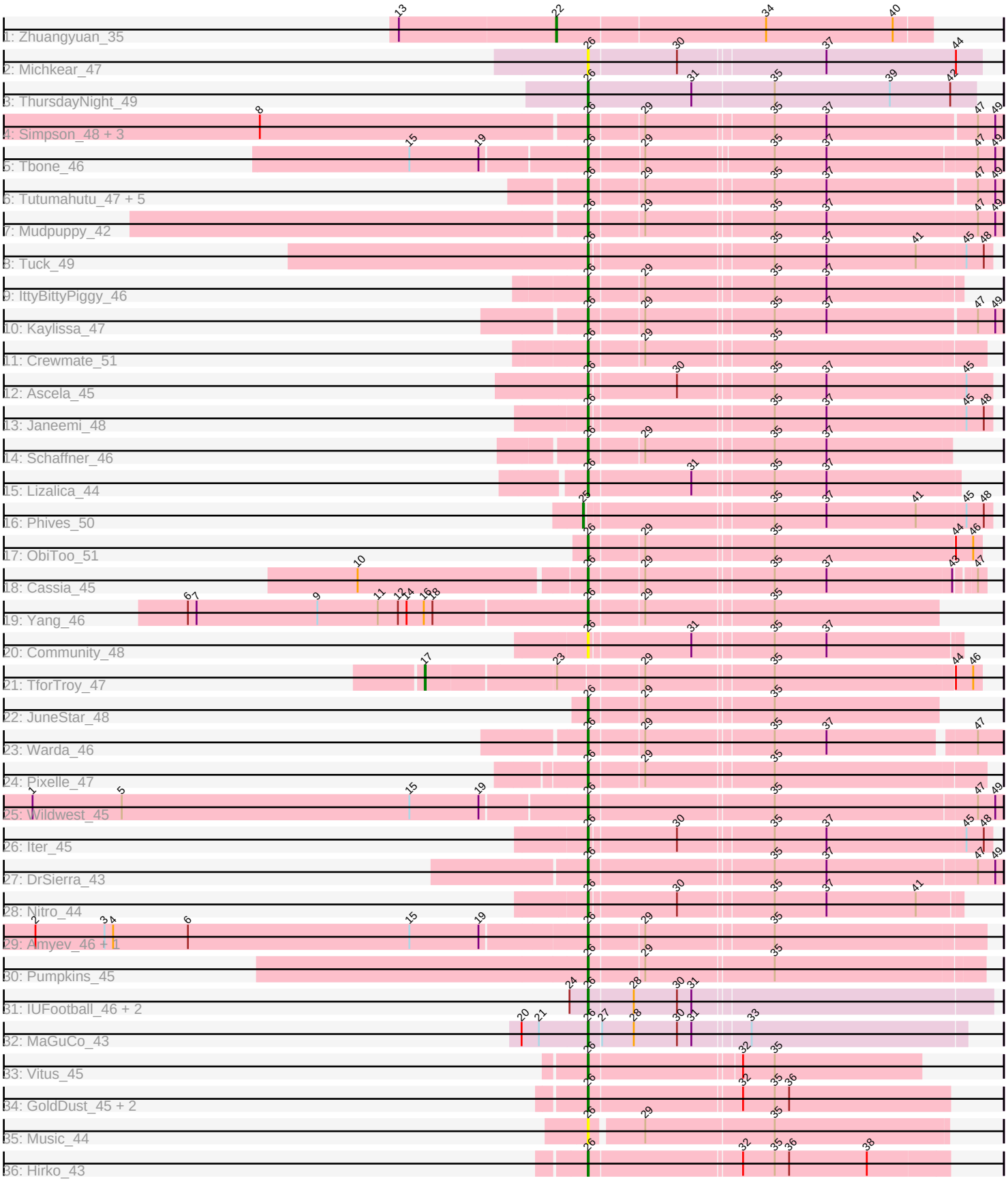
Pham 347723


1: Zhuangyuan_35
2: Michkear_47
3: ThursdayNight_49
4: Simpson_48 + 3
5: Tbone_46
6: Tutumahutu_47 + 5
7: Mudpuppy_42
8: Tuck_49
9: IttyBittyPiggy_46
10: Kaylissa_47
11: Crewmate_51
12: Ascela_45
13: Janeemi_48
14: Schaffner_46
15: Lizalica_44
16: Phives_50
17: ObiToo_51
18: Cassia_45
19: Yang_46
20: Community_48
21: TforTroy_47
22: JuneStar_48
23: Warda_46
24: Pixelle_47
25: Wildwest_45
26: Iter_45
27: DrSierra_43
28: Nitro_44
29: Amyev_46 + 1
30: Pumpkins_45
31: IUFootball_46 + 2
32: MaGuCo_43
33: Vitus_45
34: GoldDust_45 + 2
35: Music_44
36: Hirko_43

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 347723 Report

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

Pham number 347723 has 49 members, 7 are drafts.

Phages represented in each track:
- Track 1 : Zhuangyuan_35
- Track 2 : Michkear_47
- Track 3 : ThursdayNight_49
- Track 4 : Simpson_48, Joemato_46, JohnDoe_46, Flutur_45
- Track 5 : Tbone_46
- Track 6 : Tutumahutu_47, AGrandiflora_48, Powerpuff_48, Lego_45, YesChef_46, Cyan_46
- Track 7 : Mudpuppy_42
- Track 8 : Tuck_49
- Track 9 : IttyBittyPiggy_46
- Track 10 : Kaylissa_47
- Track 11 : Crewmate_51
- Track 12 : Ascela_45
- Track 13 : Janeemi_48
- Track 14 : Schaffner_46
- Track 15 : Lizalica_44
- Track 16 : Phives_50
- Track 17 : ObiToo_51
- Track 18 : Cassia_45
- Track 19 : Yang_46
- Track 20 : Community_48
- Track 21 : TforTroy_47
- Track 22 : JuneStar_48
- Track 23 : Warda_46
- Track 24 : Pixelle_47
- Track 25 : Wildwest_45
- Track 26 : Iter_45
- Track 27 : DrSierra_43
- Track 28 : Nitro_44
- Track 29 : Amyev_46, Tian_45
- Track 30 : Pumpkins_45
- Track 31 : IUFootball_46, Liebe_46, Maureen_46
- Track 32 : MaGuCo_43
- Track 33 : Vitus_45
- Track 34 : GoldDust_45, Vibaki_44, Gooberta_45
- Track 35 : Music_44
- Track 36 : Hirko_43

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

The start number called the most often in the published annotations is 26, it was called in 39 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AGrandiflora_48, Amyev_46, Ascela_45, Cassia_45, Community_48, Crewmate_51, Cyan_46, DrSierra_43, Flutur_45, GoldDust_45, Gooberta_45, Hirko_43, IUFootball_46, Iter_45, IttyBittyPiggy_46, Janeemi_48, Joemato_46, JohnDoe_46, JuneStar_48, Kaylissa_47, Lego_45, Liebe_46, Lizalica_44, MaGuCo_43, Maureen_46, Michkear_47, Mudpuppy_42, Music_44, Nitro_44, ObiToo_51, Pixelle_47, Powerpuff_48, Pumpkins_45, Schaffner_46, Simpson_48, Tbone_46, ThursdayNight_49, Tian_45, Tuck_49, Tutumahutu_47, Vibaki_44, Vitus_45, Warda_46, Wildwest_45, Yang_46, YesChef_46,

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

Genes that do not have the "Most Annotated" start:
• Phives_50, TforTroy_47, Zhuangyuan_35,

Summary by start number:

Start 17:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TforTroy_47 (AZ1),

Start 22:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zhuangyuan_35 (AS2),

Start 25:
• Found in 1 of 49 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phives_50 (AZ1),

Start 26:
• Found in 46 of 49 (93.9%) of genes in pham
• Manual Annotations of this start: 39 of 42
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AGrandiflora_48 (AZ1), Amyev_46 (AZ1), Ascela_45 (AZ1), Cassia_45 (AZ1), Community_48 (AZ1), Crewmate_51 (AZ1), Cyan_46 (AZ1), DrSierra_43 (AZ1), Flutur_45 (AZ), GoldDust_45 (FL), Gooberta_45 (FL), Hirko_43 (FL), IUFootball_46 (AZ2), Iter_45 (AZ1),

IttyBittyPiggy_46 (AZ1), Janeemi_48 (AZ1), Joemato_46 (AZ1), JohnDoe_46 (AZ1), JuneStar_48 (AZ1), Kaylissa_47 (AZ1), Lego_45 (AZ1), Liebe_46 (AZ2), Lizalica_44 (AZ1), MaGuCo_43 (AZ2), Maureen_46 (AZ2), Michkear_47 (AZ), Mudpuppy_42 (AZ1), Music_44 (FL), Nitro_44 (AZ1), ObiToo_51 (AZ1), Pixelle_47 (AZ1), Powerpuff_48 (AZ1), Pumpkins_45 (AZ1), Schaffner_46 (AZ1), Simpson_48 (AZ1), Tbone_46 (AZ1), ThursdayNight_49 (AZ), Tian_45 (AZ1), Tuck_49 (AZ1), Tutumahutu_47 (AZ1), Vibaki_44 (FL), Vitus_45 (FL), Warda_46 (AZ1), Wildwest_45 (AZ1), Yang_46 (AZ1), YesChef_46 (AZ1),

Summary by clusters:

There are 5 clusters represented in this pham: AZ1, AZ2, AZ, FL, AS2,

Info for manual annotations of cluster AS2:
•Start number 22 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AZ:
•Start number 26 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 17 was manually annotated 1 time for cluster AZ1.
•Start number 25 was manually annotated 1 time for cluster AZ1.
•Start number 26 was manually annotated 29 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 26 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster FL:
•Start number 26 was manually annotated 5 times for cluster FL.

Gene Information:

Gene: AGrandiflora_48 Start: 33790, Stop: 34203, Start Num: 26
Candidate Starts for AGrandiflora_48:
(Start: 26 @33790 has 39 MA's), (29, 33844), (35, 33970), (37, 34024), (47, 34177), (49, 34195),

Gene: Amyev_46 Start: 34828, Stop: 35223, Start Num: 26
Candidate Starts for Amyev_46:
(2, 34264), (3, 34336), (4, 34345), (6, 34423), (15, 34654), (19, 34726), (Start: 26 @34828 has 39 MA's), (29, 34882), (35, 35008),

Gene: Ascela_45 Start: 33111, Stop: 33515, Start Num: 26
Candidate Starts for Ascela_45:
(Start: 26 @33111 has 39 MA's), (30, 33198), (35, 33291), (37, 33345), (45, 33489),

Gene: Cassia_45 Start: 33045, Stop: 33434, Start Num: 26
Candidate Starts for Cassia_45:
(10, 32820), (Start: 26 @33045 has 39 MA's), (29, 33099), (35, 33225), (37, 33279), (43, 33408), (47, 33426),

Gene: Community_48 Start: 35107, Stop: 35478, Start Num: 26

Candidate Starts for Community_48:
(Start: 26 @35107 has 39 MA's), (31, 35209), (35, 35287), (37, 35341),

Gene: Crewmate_51 Start: 33740, Stop: 34135, Start Num: 26
Candidate Starts for Crewmate_51:
(Start: 26 @33740 has 39 MA's), (29, 33794), (35, 33920),

Gene: Cyan_46 Start: 33389, Stop: 33802, Start Num: 26
Candidate Starts for Cyan_46:
(Start: 26 @33389 has 39 MA's), (29, 33443), (35, 33569), (37, 33623), (47, 33776), (49, 33794),

Gene: DrSierra_43 Start: 31383, Stop: 31799, Start Num: 26
Candidate Starts for DrSierra_43:
(Start: 26 @31383 has 39 MA's), (35, 31566), (37, 31620), (47, 31773), (49, 31791),

Gene: Flutur_45 Start: 33645, Stop: 34058, Start Num: 26
Candidate Starts for Flutur_45:
(8, 33315), (Start: 26 @33645 has 39 MA's), (29, 33699), (35, 33825), (37, 33879), (47, 34032), (49, 34050),

Gene: GoldDust_45 Start: 35305, Stop: 35673, Start Num: 26
Candidate Starts for GoldDust_45:
(Start: 26 @35305 has 39 MA's), (32, 35458), (35, 35491), (36, 35506),

Gene: Gooberta_45 Start: 35304, Stop: 35672, Start Num: 26
Candidate Starts for Gooberta_45:
(Start: 26 @35304 has 39 MA's), (32, 35457), (35, 35490), (36, 35505),

Gene: Hirko_43 Start: 34532, Stop: 34897, Start Num: 26
Candidate Starts for Hirko_43:
(Start: 26 @34532 has 39 MA's), (32, 34685), (35, 34718), (36, 34733), (38, 34814),

Gene: IUFootball_46 Start: 34755, Stop: 35162, Start Num: 26
Candidate Starts for IUFootball_46:
(24, 34737), (Start: 26 @34755 has 39 MA's), (28, 34800), (30, 34845), (31, 34860),

Gene: Iter_45 Start: 33105, Stop: 33509, Start Num: 26
Candidate Starts for Iter_45:
(Start: 26 @33105 has 39 MA's), (30, 33192), (35, 33285), (37, 33339), (45, 33483), (48, 33501),

Gene: IttyBittyPiggy_46 Start: 32844, Stop: 33215, Start Num: 26
Candidate Starts for IttyBittyPiggy_46:
(Start: 26 @32844 has 39 MA's), (29, 32898), (35, 33024), (37, 33078),

Gene: Janeemi_48 Start: 35112, Stop: 35516, Start Num: 26
Candidate Starts for Janeemi_48:
(Start: 26 @35112 has 39 MA's), (35, 35292), (37, 35346), (45, 35490), (48, 35508),

Gene: Joemato_46 Start: 33415, Stop: 33828, Start Num: 26
Candidate Starts for Joemato_46:
(8, 33085), (Start: 26 @33415 has 39 MA's), (29, 33469), (35, 33595), (37, 33649), (47, 33802), (49, 33820),

Gene: JohnDoe_46 Start: 33411, Stop: 33824, Start Num: 26
Candidate Starts for JohnDoe_46:
(8, 33081), (Start: 26 @33411 has 39 MA's), (29, 33465), (35, 33591), (37, 33645), (47, 33798), (49, 33816),

Gene: JuneStar_48 Start: 35661, Stop: 36011, Start Num: 26
Candidate Starts for JuneStar_48:
(Start: 26 @35661 has 39 MA's), (29, 35715), (35, 35841),

Gene: Kaylissa_47 Start: 33807, Stop: 34220, Start Num: 26
Candidate Starts for Kaylissa_47:
(Start: 26 @33807 has 39 MA's), (29, 33861), (35, 33987), (37, 34041), (47, 34194), (49, 34212),

Gene: Lego_45 Start: 33126, Stop: 33539, Start Num: 26
Candidate Starts for Lego_45:
(Start: 26 @33126 has 39 MA's), (29, 33180), (35, 33306), (37, 33360), (47, 33513), (49, 33531),

Gene: Liebe_46 Start: 34755, Stop: 35162, Start Num: 26
Candidate Starts for Liebe_46:
(24, 34737), (Start: 26 @34755 has 39 MA's), (28, 34800), (30, 34845), (31, 34860),

Gene: Lizalica_44 Start: 32567, Stop: 32941, Start Num: 26
Candidate Starts for Lizalica_44:
(Start: 26 @32567 has 39 MA's), (31, 32672), (35, 32750), (37, 32804),

Gene: MaGuCo_43 Start: 33237, Stop: 33617, Start Num: 26
Candidate Starts for MaGuCo_43:
(20, 33171), (21, 33189), (Start: 26 @33237 has 39 MA's), (27, 33249), (28, 33282), (30, 33327), (31, 33342), (33, 33396),

Gene: Maureen_46 Start: 34755, Stop: 35162, Start Num: 26
Candidate Starts for Maureen_46:
(24, 34737), (Start: 26 @34755 has 39 MA's), (28, 34800), (30, 34845), (31, 34860),

Gene: Michkear_47 Start: 35385, Stop: 35783, Start Num: 26
Candidate Starts for Michkear_47:
(Start: 26 @35385 has 39 MA's), (30, 35475), (37, 35622), (44, 35757),

Gene: Mudpuppy_42 Start: 33064, Stop: 33480, Start Num: 26
Candidate Starts for Mudpuppy_42:
(Start: 26 @33064 has 39 MA's), (29, 33118), (35, 33244), (37, 33298), (47, 33454), (49, 33472),

Gene: Music_44 Start: 34907, Stop: 35269, Start Num: 26
Candidate Starts for Music_44:
(Start: 26 @34907 has 39 MA's), (29, 34958), (35, 35090),

Gene: Nitro_44 Start: 33699, Stop: 34070, Start Num: 26
Candidate Starts for Nitro_44:
(Start: 26 @33699 has 39 MA's), (30, 33786), (35, 33879), (37, 33933), (41, 34026),

Gene: ObiToo_51 Start: 34185, Stop: 34577, Start Num: 26
Candidate Starts for ObiToo_51:
(Start: 26 @34185 has 39 MA's), (29, 34239), (35, 34365), (44, 34551), (46, 34569),

Gene: Phives_50 Start: 35604, Stop: 36011, Start Num: 25
Candidate Starts for Phives_50:
(Start: 25 @35604 has 1 MA's), (35, 35787), (37, 35841), (41, 35934), (45, 35985), (48, 36003),

Gene: Pixelle_47 Start: 35172, Stop: 35567, Start Num: 26
Candidate Starts for Pixelle_47:
(Start: 26 @35172 has 39 MA's), (29, 35226), (35, 35352),

Gene: Powerpuff_48 Start: 34514, Stop: 34927, Start Num: 26
Candidate Starts for Powerpuff_48:
(Start: 26 @34514 has 39 MA's), (29, 34568), (35, 34694), (37, 34748), (47, 34901), (49, 34919),

Gene: Pumpkins_45 Start: 33566, Stop: 33961, Start Num: 26
Candidate Starts for Pumpkins_45:
(Start: 26 @33566 has 39 MA's), (29, 33620), (35, 33749),

Gene: Schaffner_46 Start: 33571, Stop: 33933, Start Num: 26
Candidate Starts for Schaffner_46:
(Start: 26 @33571 has 39 MA's), (29, 33625), (35, 33751), (37, 33805),

Gene: Simpson_48 Start: 33419, Stop: 33832, Start Num: 26
Candidate Starts for Simpson_48:
(8, 33089), (Start: 26 @33419 has 39 MA's), (29, 33473), (35, 33599), (37, 33653), (47, 33806), (49, 33824),

Gene: Tbone_46 Start: 33975, Stop: 34388, Start Num: 26
Candidate Starts for Tbone_46:
(15, 33801), (19, 33873), (Start: 26 @33975 has 39 MA's), (29, 34029), (35, 34155), (37, 34209), (47, 34362), (49, 34380),

Gene: TforTroy_47 Start: 33428, Stop: 33973, Start Num: 17
Candidate Starts for TforTroy_47:
(Start: 17 @33428 has 1 MA's), (23, 33557), (29, 33638), (35, 33764), (44, 33947), (46, 33965),

Gene: ThursdayNight_49 Start: 33913, Stop: 34314, Start Num: 26
Candidate Starts for ThursdayNight_49:
(Start: 26 @33913 has 39 MA's), (31, 34021), (35, 34105), (39, 34225), (42, 34288),

Gene: Tian_45 Start: 34828, Stop: 35223, Start Num: 26
Candidate Starts for Tian_45:
(2, 34264), (3, 34336), (4, 34345), (6, 34423), (15, 34654), (19, 34726), (Start: 26 @34828 has 39 MA's), (29, 34882), (35, 35008),

Gene: Tuck_49 Start: 35489, Stop: 35893, Start Num: 26
Candidate Starts for Tuck_49:
(Start: 26 @35489 has 39 MA's), (35, 35669), (37, 35723), (41, 35816), (45, 35867), (48, 35885),

Gene: Tutumahutu_47 Start: 33397, Stop: 33810, Start Num: 26
Candidate Starts for Tutumahutu_47:
(Start: 26 @33397 has 39 MA's), (29, 33451), (35, 33577), (37, 33631), (47, 33784), (49, 33802),

Gene: Vibaki_44 Start: 34927, Stop: 35295, Start Num: 26

Candidate Starts for Vibaki_44:
(Start: 26 @34927 has 39 MA's), (32, 35080), (35, 35113), (36, 35128),

Gene: Vitus_45 Start: 33911, Stop: 34246, Start Num: 26
Candidate Starts for Vitus_45:
(Start: 26 @33911 has 39 MA's), (32, 34061), (35, 34094),

Gene: Warda_46 Start: 33470, Stop: 33874, Start Num: 26
Candidate Starts for Warda_46:
(Start: 26 @33470 has 39 MA's), (29, 33524), (35, 33650), (37, 33704), (47, 33848),

Gene: Wildwest_45 Start: 33392, Stop: 33811, Start Num: 26
Candidate Starts for Wildwest_45:
(1, 32825), (5, 32918), (15, 33218), (19, 33290), (Start: 26 @33392 has 39 MA's), (35, 33578), (47, 33785), (49, 33803),

Gene: Yang_46 Start: 33276, Stop: 33626, Start Num: 26
Candidate Starts for Yang_46:
(6, 32868), (7, 32877), (9, 33003), (11, 33066), (12, 33087), (14, 33096), (16, 33114), (18, 33123), (Start: 26 @33276 has 39 MA's), (29, 33330), (35, 33456),

Gene: YesChef_46 Start: 33373, Stop: 33786, Start Num: 26
Candidate Starts for YesChef_46:
(Start: 26 @33373 has 39 MA's), (29, 33427), (35, 33553), (37, 33607), (47, 33760), (49, 33778),

Gene: Zhuangyuan_35 Start: 22960, Stop: 22577, Start Num: 22
Candidate Starts for Zhuangyuan_35:
(13, 23122), (Start: 22 @22960 has 1 MA's), (34, 22747), (40, 22615),