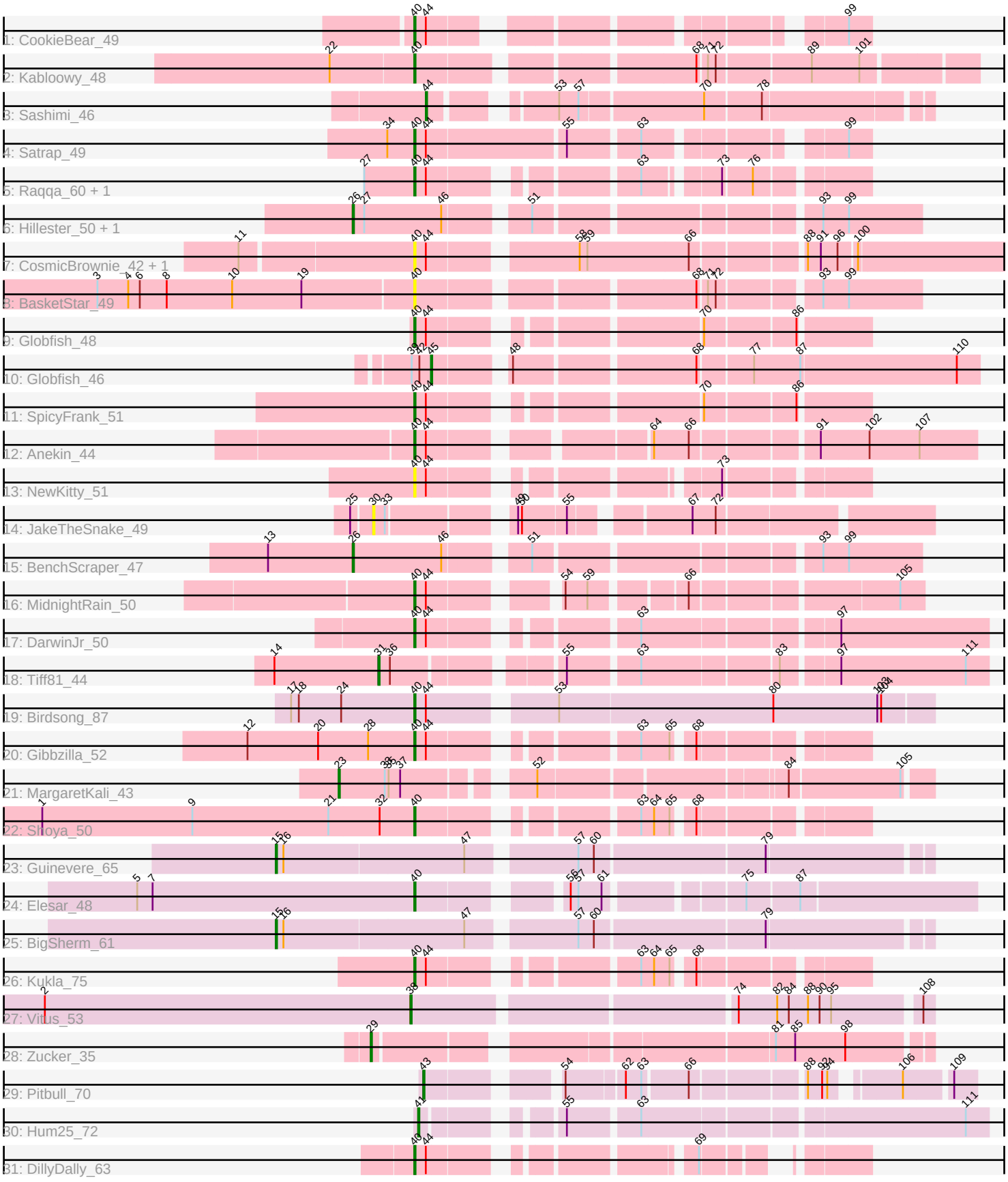
Pham 347864


1: CookieBear_49
2: Kabloowy_48
3: Sashimi_46
4: Satrap_49
5: Raqqa_60 + 1
6: Hillester_50 + 1
7: CosmicBrownie_42 + 1
8: BasketStar_49
9: Globfish_48
10: Globfish_46
11: SpicyFrank_51
12: Anekin_44
13: NewKitty_51
14: JakeTheSnake_49
15: BenchScraper_47
16: MidnightRain_50
17: DarwinJr_50
18: Tiff81_44
19: Birdsong_87
20: Gibbzilla_52
21: MargaretKali_43
22: Shoya_50
23: Guinevere_65
24: Elesar_48
25: BigSherm_61
26: Kukla_75
27: Vitus_53
28: Zucker_35
29: Pitbull_70
30: Hum25_72
31: DillyDally_63

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 347864 Report

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

Pham number 347864 has 34 members, 6 are drafts.

Phages represented in each track:
- Track 1 : CookieBear_49
- Track 2 : Kabloowy_48
- Track 3 : Sashimi_46
- Track 4 : Satrap_49
- Track 5 : Raqqa_60, BrayBeast_49
- Track 6 : Hillester_50, RadFad_50
- Track 7 : CosmicBrownie_42, GumGum_45
- Track 8 : BasketStar_49
- Track 9 : Globfish_48
- Track 10 : Globfish_46
- Track 11 : SpicyFrank_51
- Track 12 : Anekin_44
- Track 13 : NewKitty_51
- Track 14 : JakeTheSnake_49
- Track 15 : BenchScraper_47
- Track 16 : MidnightRain_50
- Track 17 : DarwinJr_50
- Track 18 : Tiff81_44
- Track 19 : Birdsong_87
- Track 20 : Gibbzilla_52
- Track 21 : MargaretKali_43
- Track 22 : Shoya_50
- Track 23 : Guinevere_65
- Track 24 : Elesar_48
- Track 25 : BigSherm_61
- Track 26 : Kukla_75
- Track 27 : Vitus_53
- Track 28 : Zucker_35
- Track 29 : Pitbull_70
- Track 30 : Hum25_72
- Track 31 : DillyDally_63

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

The start number called the most often in the published annotations is 40, it was called in 15 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anekin_44, BasketStar_49, Birdsong_87, BrayBeast_49, CookieBear_49, CosmicBrownie_42, DarwinJr_50, DillyDally_63, Elesar_48, Gibbzilla_52, Globfish_48, GumGum_45, Kabloowy_48, Kukla_75, MidnightRain_50, NewKitty_51, Raqqa_60, Satrap_49, Shoya_50, SpicyFrank_51,

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

Genes that do not have the "Most Annotated" start:
• BenchScraper_47, BigSherm_61, Globfish_46, Guinevere_65, Hillester_50, Hum25_72, JakeTheSnake_49, MargaretKali_43, Pitbull_70, RadFad_50, Sashimi_46, Tiff81_44, Vitus_53, Zucker_35,

Summary by start number:

Start 15:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigSherm_61 (FF), Guinevere_65 (FF),

Start 23:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MargaretKali_43 (FB),

Start 26:
• Found in 3 of 34 (8.8%) of genes in pham
• Manual Annotations of this start: 3 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BenchScraper_47 (AY), Hillester_50 (AY), RadFad_50 (AY),

Start 29:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zucker_35 (FN),

Start 30:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JakeTheSnake_49 (AY),

Start 31:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tiff81_44 (AY),

Start 38:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vitus_53 (FL),

Start 40:
• Found in 20 of 34 (58.8%) of genes in pham
• Manual Annotations of this start: 15 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anekin_44 (AY), BasketStar_49 (AY), Birdsong_87 (DN), BrayBeast_49 (FB), CookieBear_49 (AY), CosmicBrownie_42 (AY), DarwinJr_50 (AY), DillyDally_63 (singleton), Elesar_48 (FF), Gibbzilla_52 (FB), Globfish_48 (AY), GumGum_45 (AY), Kabloowy_48 (AY), Kukla_75 (FJ), MidnightRain_50 (AY), NewKitty_51 (AY), Raqqa_60 (AY), Satrap_49 (AY), Shoya_50 (FB), SpicyFrank_51 (AY),

Start 41:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_72 (FQ1),

Start 43:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pitbull_70 (FQ1),

Start 44:
• Found in 17 of 34 (50.0%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Sashimi_46 (AY),

Start 45:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Globfish_46 (AY),

Summary by clusters:

There are 9 clusters represented in this pham: DN, singleton, FB, FF, AY, FJ, FQ1, FL, FN,

Info for manual annotations of cluster AY:
•Start number 26 was manually annotated 3 times for cluster AY.
•Start number 31 was manually annotated 1 time for cluster AY.
•Start number 40 was manually annotated 8 times for cluster AY.

•Start number 44 was manually annotated 1 time for cluster AY.
•Start number 45 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster DN:
•Start number 40 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster FB:
•Start number 23 was manually annotated 1 time for cluster FB.
•Start number 40 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FF:
•Start number 15 was manually annotated 2 times for cluster FF.
•Start number 40 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FJ:
•Start number 40 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 38 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:
•Start number 29 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 41 was manually annotated 1 time for cluster FQ1.
•Start number 43 was manually annotated 1 time for cluster FQ1.

Gene Information:

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 40
Candidate Starts for Anekin_44:
(Start: 40 @29811 has 15 MA's), (Start: 44 @29820 has 1 MA's), (64, 29958), (66, 29985), (91, 30072), (102, 30108), (107, 30147),

Gene: BasketStar_49 Start: 30508, Stop: 30852, Start Num: 40
Candidate Starts for BasketStar_49:
(3, 30265), (4, 30289), (6, 30298), (8, 30319), (10, 30370), (19, 30424), (Start: 40 @30508 has 15 MA's), (68, 30697), (71, 30703), (72, 30709), (93, 30778), (99, 30796),

Gene: BenchScraper_47 Start: 29609, Stop: 30001, Start Num: 26
Candidate Starts for BenchScraper_47:
(13, 29546), (Start: 26 @29609 has 3 MA's), (46, 29678), (51, 29732), (93, 29927), (99, 29945),

Gene: BigSherm_61 Start: 37769, Stop: 38245, Start Num: 15
Candidate Starts for BigSherm_61:
(Start: 15 @37769 has 2 MA's), (16, 37775), (47, 37913), (57, 37988), (60, 38000), (79, 38126),

Gene: Birdsong_87 Start: 49769, Stop: 50152, Start Num: 40
Candidate Starts for Birdsong_87:
(17, 49673), (18, 49679), (24, 49712), (Start: 40 @49769 has 15 MA's), (Start: 44 @49778 has 1 MA's), (53, 49865), (80, 50030), (103, 50111), (104, 50114),

Gene: BrayBeast_49 Start: 28984, Stop: 29268, Start Num: 40
Candidate Starts for BrayBeast_49:
(27, 28945), (Start: 40 @28984 has 15 MA's), (Start: 44 @28993 has 1 MA's), (63, 29122), (73, 29170), (76, 29191),

Gene: CookieBear_49 Start: 30179, Stop: 30457, Start Num: 40
Candidate Starts for CookieBear_49:
(Start: 40 @30179 has 15 MA's), (Start: 44 @30188 has 1 MA's), (99, 30440),

Gene: CosmicBrownie_42 Start: 28661, Stop: 29080, Start Num: 40
Candidate Starts for CosmicBrownie_42:
(11, 28532), (Start: 40 @28661 has 15 MA's), (Start: 44 @28670 has 1 MA's), (58, 28769), (59, 28775), (66, 28853), (88, 28931), (91, 28940), (96, 28952), (100, 28964),

Gene: DarwinJr_50 Start: 31091, Stop: 31480, Start Num: 40
Candidate Starts for DarwinJr_50:
(Start: 40 @31091 has 15 MA's), (Start: 44 @31100 has 1 MA's), (63, 31229), (97, 31367),

Gene: DillyDally_63 Start: 38118, Stop: 38381, Start Num: 40
Candidate Starts for DillyDally_63:
(Start: 40 @38118 has 15 MA's), (Start: 44 @38127 has 1 MA's), (69, 38289),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 40
Candidate Starts for Elesar_48:
(5, 36751), (7, 36763), (Start: 40 @36967 has 15 MA's), (56, 37060), (57, 37066), (61, 37084), (75, 37177), (87, 37216),

Gene: Gibbzilla_52 Start: 29845, Stop: 30132, Start Num: 40
Candidate Starts for Gibbzilla_52:
(12, 29716), (20, 29770), (28, 29809), (Start: 40 @29845 has 15 MA's), (Start: 44 @29854 has 1 MA's), (63, 29983), (65, 30004), (68, 30016),

Gene: Globfish_48 Start: 30153, Stop: 30452, Start Num: 40
Candidate Starts for Globfish_48:
(Start: 40 @30153 has 15 MA's), (Start: 44 @30162 has 1 MA's), (70, 30336), (86, 30402),

Gene: Globfish_46 Start: 29462, Stop: 29848, Start Num: 45
Candidate Starts for Globfish_46:
(39, 29447), (42, 29453), (Start: 45 @29462 has 1 MA's), (48, 29510), (68, 29639), (77, 29678), (87, 29714), (110, 29831),

Gene: Guinevere_65 Start: 38393, Stop: 38869, Start Num: 15
Candidate Starts for Guinevere_65:
(Start: 15 @38393 has 2 MA's), (16, 38399), (47, 38537), (57, 38612), (60, 38624), (79, 38750),

Gene: GumGum_45 Start: 29081, Stop: 29500, Start Num: 40
Candidate Starts for GumGum_45:
(11, 28952), (Start: 40 @29081 has 15 MA's), (Start: 44 @29090 has 1 MA's), (58, 29189), (59, 29195), (66, 29273), (88, 29351), (91, 29360), (96, 29372), (100, 29384),

Gene: Hillester_50 Start: 30882, Stop: 31274, Start Num: 26
Candidate Starts for Hillester_50:

(Start: 26 @30882 has 3 MA's), (27, 30891), (46, 30951), (51, 31005), (93, 31200), (99, 31218),

Gene: Hum25_72 Start: 38173, Stop: 38556, Start Num: 41
Candidate Starts for Hum25_72:
(Start: 41 @38173 has 1 MA's), (55, 38254), (63, 38305), (111, 38539),

Gene: JakeTheSnake_49 Start: 30813, Stop: 31190, Start Num: 30
Candidate Starts for JakeTheSnake_49:
(25, 30798), (30, 30813), (33, 30822), (49, 30903), (50, 30906), (55, 30939), (67, 31017), (72, 31035),

Gene: Kabloowy_48 Start: 30785, Stop: 31174, Start Num: 40
Candidate Starts for Kabloowy_48:
(22, 30722), (Start: 40 @30785 has 15 MA's), (68, 30974), (71, 30980), (72, 30986), (89, 31055), (101, 31091),

Gene: Kukla_75 Start: 42658, Stop: 42945, Start Num: 40
Candidate Starts for Kukla_75:
(Start: 40 @42658 has 15 MA's), (Start: 44 @42667 has 1 MA's), (63, 42796), (64, 42805), (65, 42817), (68, 42829),

Gene: MargaretKali_43 Start: 27891, Stop: 28301, Start Num: 23
Candidate Starts for MargaretKali_43:
(Start: 23 @27891 has 1 MA's), (33, 27927), (35, 27930), (37, 27939), (52, 28020), (84, 28197), (105, 28281),

Gene: MidnightRain_50 Start: 31295, Stop: 31621, Start Num: 40
Candidate Starts for MidnightRain_50:
(Start: 40 @31295 has 15 MA's), (Start: 44 @31304 has 1 MA's), (54, 31382), (59, 31397), (66, 31460), (105, 31604),

Gene: NewKitty_51 Start: 30242, Stop: 30526, Start Num: 40
Candidate Starts for NewKitty_51:
(Start: 40 @30242 has 15 MA's), (Start: 44 @30251 has 1 MA's), (73, 30428),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 43
Candidate Starts for Pitbull_70:
(Start: 43 @37588 has 1 MA's), (54, 37669), (62, 37711), (63, 37723), (66, 37756), (88, 37834), (92, 37843), (94, 37846), (106, 37888), (109, 37921),

Gene: RadFad_50 Start: 30882, Stop: 31274, Start Num: 26
Candidate Starts for RadFad_50:
(Start: 26 @30882 has 3 MA's), (27, 30891), (46, 30951), (51, 31005), (93, 31200), (99, 31218),

Gene: Raqqa_60 Start: 33013, Stop: 33297, Start Num: 40
Candidate Starts for Raqqa_60:
(27, 32974), (Start: 40 @33013 has 15 MA's), (Start: 44 @33022 has 1 MA's), (63, 33151), (73, 33199), (76, 33220),

Gene: Sashimi_46 Start: 30610, Stop: 30951, Start Num: 44
Candidate Starts for Sashimi_46:
(Start: 44 @30610 has 1 MA's), (53, 30685), (57, 30700), (70, 30790), (78, 30832),

Gene: Satrap_49 Start: 30579, Stop: 30881, Start Num: 40

Candidate Starts for Satrap_49:
(34, 30558), (Start: 40 @30579 has 15 MA's), (Start: 44 @30588 has 1 MA's), (55, 30690), (63, 30741), (99, 30864),

Gene: Shoya_50 Start: 29154, Stop: 29441, Start Num: 40
Candidate Starts for Shoya_50:
(1, 28866), (9, 28983), (21, 29088), (32, 29127), (Start: 40 @29154 has 15 MA's), (63, 29292), (64, 29301), (65, 29313), (68, 29325),

Gene: SpicyFrank_51 Start: 30836, Stop: 31135, Start Num: 40
Candidate Starts for SpicyFrank_51:
(Start: 40 @30836 has 15 MA's), (Start: 44 @30845 has 1 MA's), (70, 31019), (86, 31085),

Gene: Tiff81_44 Start: 28183, Stop: 28605, Start Num: 31
Candidate Starts for Tiff81_44:
(14, 28102), (Start: 31 @28183 has 1 MA's), (36, 28192), (55, 28303), (63, 28354), (83, 28453), (97, 28492), (111, 28588),

Gene: Vitus_53 Start: 37944, Stop: 38321, Start Num: 38
Candidate Starts for Vitus_53:
(2, 37659), (Start: 38 @37944 has 1 MA's), (74, 38178), (82, 38208), (84, 38217), (88, 38232), (90, 38241), (95, 38250), (108, 38313),

Gene: Zucker_35 Start: 27460, Stop: 27846, Start Num: 29
Candidate Starts for Zucker_35:
(Start: 29 @27460 has 1 MA's), (81, 27733), (85, 27748), (98, 27787),