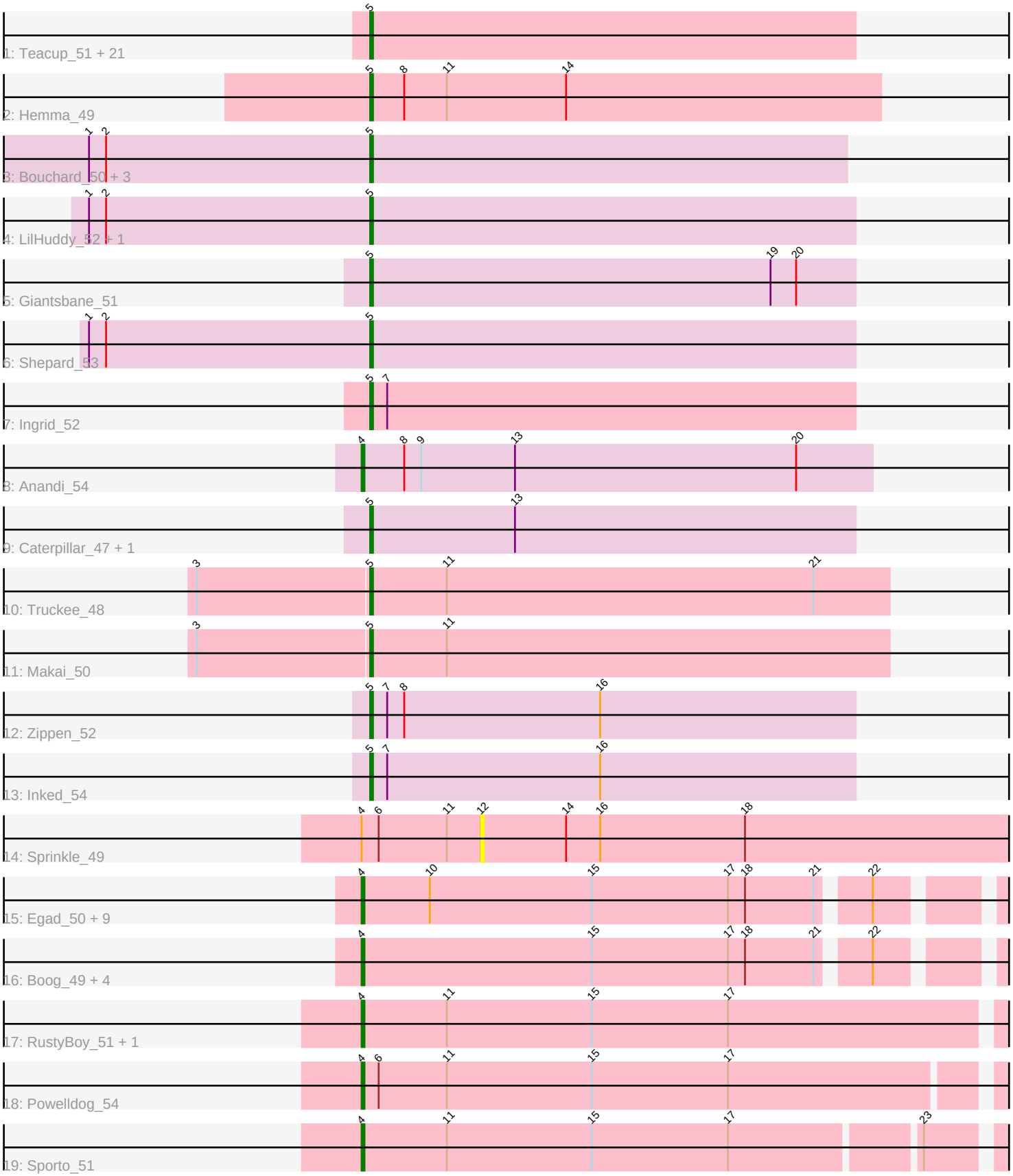
Pham 347657


1: Teacup_51 + 21
2: Hemma_49
3: Bouchard_50 + 3
4: LilHuddy_52 + 1
5: Giantsbane_51
6: Shepard_53
7: Ingrid_52
8: Anandi_54
9: Caterpillar_47 + 1
10: Truckee_48
11: Makai_50
12: Zippen_52
13: Inked_54
14: Sprinkle_49
15: Egad_50 + 9
16: Boog_49 + 4
17: RustyBoy_51 + 1
18: Powelldog_54
19: Sporto_51

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 347657 Report

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

Pham number 347657 has 59 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Teacup_51, Acai_50, DevitoJr_50, LucySwiss_50, Nightmare_52, Breylor17_50, Nivinsha_52, Gordon_48, AreFloNak_53, CapnMurica_48, Trustiboi_50, Darby_49, Niktson_50, ScienceWizSam_51, CastorTray_53, ElephantMan_50, Brunswick_51, Westerlin_49, Issa_49, Synepsis_49, Tenno_51, MiniBagel_50
• Track 2 : Hemma_49
• Track 3 : Bouchard_50, Chlochlo_51, Phaby_53, Tipton_53
• Track 4 : LilHuddy_52, Tokki_55
• Track 5 : Giantsbane_51
• Track 6 : Shepard_53
• Track 7 : Ingrid_52
• Track 8 : Anandi_54
• Track 9 : Caterpillar_47, MediumFry_48
• Track 10 : Truckee_48
• Track 11 : Makai_50
• Track 12 : Zippen_52
• Track 13 : Inked_54
• Track 14 : Sprinkle_49
• Track 15 : Egad_50, MrAaronian_50, Michelle_50, Shiba_49, StarLord_50, Jeremy4pt0_49, Stayer_50, BronxBay_50, Sloopyjoe_50, ProfFrink_50
• Track 16 : Boog_49, Salk_50, Raunak_50, DoctorPepper_49, Linda_50
• Track 17 : RustyBoy_51, Natasha_51
• Track 18 : Powelldog_54
• Track 19 : Sporto_51

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

The start number called the most often in the published annotations is 5, it was called in 35 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_50, AreFloNak_53, Bouchard_50, Breylor17_50, Brunswick_51, CapnMurica_48, CastorTray_53, Caterpillar_47, Chlochlo_51, Darby_49, DevitoJr_50, ElephantMan_50, Giantsbane_51, Gordon_48, Hemma_49, Ingrid_52,

Inked_54, Issa_49, LilHuddy_52, LucySwiss_50, Makai_50, MediumFry_48, MiniBagel_50, Nightmare_52, Niktson_50, Nivinsha_52, Phaby_53, ScienceWizSam_51, Shepard_53, Synepsis_49, Teacup_51, Tenno_51, Tipton_53, Tokki_55, Truckee_48, Trustiboi_50, Westerlin_49, Zippen_52,

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

Genes that do not have the "Most Annotated" start:
• Anandi_54, Boog_49, BronxBay_50, DoctorPepper_49, Egad_50, Jeremy4pt0_49, Linda_50, Michelle_50, MrAaronian_50, Natasha_51, Powelldog_54, ProfFrink_50, Raunak_50, RustyBoy_51, Salk_50, Shiba_49, Sloopyjoe_50, Sporto_51, Sprinkle_49, StarLord_50, Stayer_50,

Summary by start number:

Start 4:
• Found in 21 of 59 (35.6%) of genes in pham
• Manual Annotations of this start: 20 of 55
• Called 95.2% of time when present
• Phage (with cluster) where this start called: Anandi_54 (AU4), Boog_49 (AW), BronxBay_50 (AW), DoctorPepper_49 (AW), Egad_50 (AW), Jeremy4pt0_49 (AW), Linda_50 (AW), Michelle_50 (AW), MrAaronian_50 (AW), Natasha_51 (AW), Powelldog_54 (AW), ProfFrink_50 (AW), Raunak_50 (AW), RustyBoy_51 (AW), Salk_50 (AW), Shiba_49 (AW), Sloopyjoe_50 (AW), Sporto_51 (AW), StarLord_50 (AW), Stayer_50 (AW),

Start 5:
• Found in 38 of 59 (64.4%) of genes in pham
• Manual Annotations of this start: 35 of 55
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acai_50 (AU1), AreFloNak_53 (AU1), Bouchard_50 (AU2), Breylor17_50 (AU1), Brunswick_51 (AU1), CapnMurica_48 (AU1), CastorTray_53 (AU1), Caterpillar_47 (AU4), Chlochlo_51 (AU2), Darby_49 (AU1), DevitoJr_50 (AU1), ElephantMan_50 (AU1), Giantsbane_51 (AU2), Gordon_48 (AU1), Hemma_49 (AU1), Ingrid_52 (AU3), Inked_54 (AU7), Issa_49 (AU1), LilHuddy_52 (AU2), LucySwiss_50 (AU1), Makai_50 (AU5), MediumFry_48 (AU4), MiniBagel_50 (AU1), Nightmare_52 (AU1), Niktson_50 (AU1), Nivinsha_52 (AU1), Phaby_53 (AU2), ScienceWizSam_51 (AU1), Shepard_53 (AU2), Synepsis_49 (AU1), Teacup_51 (AU1), Tenno_51 (AU1), Tipton_53 (AU2), Tokki_55 (AU2), Truckee_48 (AU5), Trustiboi_50 (AU1), Westerlin_49 (AU1), Zippen_52 (AU7),

Start 12:
• Found in 1 of 59 (1.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sprinkle_49 (AW),

Summary by clusters:

There are 7 clusters represented in this pham: AW, AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:

•Start number 5 was manually annotated 20 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 5 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 5 was manually annotated 1 time for cluster AU3.

Info for manual annotations of cluster AU4:
•Start number 4 was manually annotated 1 time for cluster AU4.
•Start number 5 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 5 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 4 was manually annotated 19 times for cluster AW.

Gene Information:

Gene: Acai_50 Start: 35658, Stop: 35828, Start Num: 5
Candidate Starts for Acai_50:
(Start: 5 @35658 has 35 MA's),

Gene: Anandi_54 Start: 35881, Stop: 36060, Start Num: 4
Candidate Starts for Anandi_54:
(Start: 4 @35881 has 20 MA's), (8, 35896), (9, 35902), (13, 35935), (20, 36034),

Gene: AreFloNak_53 Start: 35628, Stop: 35798, Start Num: 5
Candidate Starts for AreFloNak_53:
(Start: 5 @35628 has 35 MA's),

Gene: Boog_49 Start: 33153, Stop: 33386, Start Num: 4
Candidate Starts for Boog_49:
(Start: 4 @33153 has 20 MA's), (15, 33234), (17, 33282), (18, 33288), (21, 33312), (22, 33327),

Gene: Bouchard_50 Start: 35605, Stop: 35772, Start Num: 5
Candidate Starts for Bouchard_50:
(1, 35506), (2, 35512), (Start: 5 @35605 has 35 MA's),

Gene: Breylor17_50 Start: 36219, Stop: 36389, Start Num: 5
Candidate Starts for Breylor17_50:
(Start: 5 @36219 has 35 MA's),

Gene: BronxBay_50 Start: 33451, Stop: 33684, Start Num: 4
Candidate Starts for BronxBay_50:
(Start: 4 @33451 has 20 MA's), (10, 33475), (15, 33532), (17, 33580), (18, 33586), (21, 33610), (22, 33625),

Gene: Brunswick_51 Start: 35512, Stop: 35682, Start Num: 5
Candidate Starts for Brunswick_51:
(Start: 5 @35512 has 35 MA's),

Gene: CapnMurica_48 Start: 36412, Stop: 36582, Start Num: 5
Candidate Starts for CapnMurica_48:
(Start: 5 @36412 has 35 MA's),

Gene: CastorTray_53 Start: 36283, Stop: 36453, Start Num: 5
Candidate Starts for CastorTray_53:
(Start: 5 @36283 has 35 MA's),

Gene: Caterpillar_47 Start: 34682, Stop: 34852, Start Num: 5
Candidate Starts for Caterpillar_47:
(Start: 5 @34682 has 35 MA's), (13, 34733),

Gene: Chlochlo_51 Start: 35349, Stop: 35516, Start Num: 5
Candidate Starts for Chlochlo_51:
(1, 35250), (2, 35256), (Start: 5 @35349 has 35 MA's),

Gene: Darby_49 Start: 35457, Stop: 35627, Start Num: 5
Candidate Starts for Darby_49:
(Start: 5 @35457 has 35 MA's),

Gene: DevitoJr_50 Start: 35849, Stop: 36019, Start Num: 5
Candidate Starts for DevitoJr_50:
(Start: 5 @35849 has 35 MA's),

Gene: DoctorPepper_49 Start: 33155, Stop: 33388, Start Num: 4
Candidate Starts for DoctorPepper_49:
(Start: 4 @33155 has 20 MA's), (15, 33236), (17, 33284), (18, 33290), (21, 33314), (22, 33329),

Gene: Egad_50 Start: 33452, Stop: 33685, Start Num: 4
Candidate Starts for Egad_50:
(Start: 4 @33452 has 20 MA's), (10, 33476), (15, 33533), (17, 33581), (18, 33587), (21, 33611), (22, 33626),

Gene: ElephantMan_50 Start: 36135, Stop: 36305, Start Num: 5
Candidate Starts for ElephantMan_50:
(Start: 5 @36135 has 35 MA's),

Gene: Giantsbane_51 Start: 34529, Stop: 34699, Start Num: 5
Candidate Starts for Giantsbane_51:
(Start: 5 @34529 has 35 MA's), (19, 34670), (20, 34679),

Gene: Gordon_48 Start: 36274, Stop: 36444, Start Num: 5
Candidate Starts for Gordon_48:
(Start: 5 @36274 has 35 MA's),

Gene: Hemma_49 Start: 32471, Stop: 32650, Start Num: 5
Candidate Starts for Hemma_49:
(Start: 5 @32471 has 35 MA's), (8, 32483), (11, 32498), (14, 32540),

Gene: Ingrid_52 Start: 35475, Stop: 35645, Start Num: 5
Candidate Starts for Ingrid_52:
(Start: 5 @35475 has 35 MA's), (7, 35481),

Gene: Inked_54 Start: 36599, Stop: 36769, Start Num: 5
Candidate Starts for Inked_54:
(Start: 5 @36599 has 35 MA's), (7, 36605), (16, 36680),

Gene: Issa_49 Start: 35500, Stop: 35670, Start Num: 5
Candidate Starts for Issa_49:
(Start: 5 @35500 has 35 MA's),

Gene: Jeremy4pt0_49 Start: 33150, Stop: 33383, Start Num: 4
Candidate Starts for Jeremy4pt0_49:
(Start: 4 @33150 has 20 MA's), (10, 33174), (15, 33231), (17, 33279), (18, 33285), (21, 33309), (22, 33324),

Gene: LilHuddy_52 Start: 35722, Stop: 35892, Start Num: 5
Candidate Starts for LilHuddy_52:
(1, 35623), (2, 35629), (Start: 5 @35722 has 35 MA's),

Gene: Linda_50 Start: 33448, Stop: 33681, Start Num: 4
Candidate Starts for Linda_50:
(Start: 4 @33448 has 20 MA's), (15, 33529), (17, 33577), (18, 33583), (21, 33607), (22, 33622),

Gene: LucySwiss_50 Start: 35302, Stop: 35472, Start Num: 5
Candidate Starts for LucySwiss_50:
(Start: 5 @35302 has 35 MA's),

Gene: Makai_50 Start: 35698, Stop: 35880, Start Num: 5
Candidate Starts for Makai_50:
(3, 35638), (Start: 5 @35698 has 35 MA's), (11, 35725),

Gene: MediumFry_48 Start: 34986, Stop: 35156, Start Num: 5
Candidate Starts for MediumFry_48:
(Start: 5 @34986 has 35 MA's), (13, 35037),

Gene: Michelle_50 Start: 33450, Stop: 33683, Start Num: 4
Candidate Starts for Michelle_50:
(Start: 4 @33450 has 20 MA's), (10, 33474), (15, 33531), (17, 33579), (18, 33585), (21, 33609), (22, 33624),

Gene: MiniBagel_50 Start: 36394, Stop: 36564, Start Num: 5
Candidate Starts for MiniBagel_50:
(Start: 5 @36394 has 35 MA's),

Gene: MrAaronian_50 Start: 33450, Stop: 33683, Start Num: 4
Candidate Starts for MrAaronian_50:
(Start: 4 @33450 has 20 MA's), (10, 33474), (15, 33531), (17, 33579), (18, 33585), (21, 33609), (22, 33624),

Gene: Natasha_51 Start: 33238, Stop: 33486, Start Num: 4

Candidate Starts for Natasha_51:
(Start: 4 @33238 has 20 MA's), (11, 33268), (15, 33319), (17, 33367),

Gene: Nightmare_52 Start: 36691, Stop: 36861, Start Num: 5
Candidate Starts for Nightmare_52:
(Start: 5 @36691 has 35 MA's),

Gene: Niktson_50 Start: 36135, Stop: 36305, Start Num: 5
Candidate Starts for Niktson_50:
(Start: 5 @36135 has 35 MA's),

Gene: Nivinsha_52 Start: 35628, Stop: 35798, Start Num: 5
Candidate Starts for Nivinsha_52:
(Start: 5 @35628 has 35 MA's),

Gene: Phaby_53 Start: 36261, Stop: 36428, Start Num: 5
Candidate Starts for Phaby_53:
(1, 36162), (2, 36168), (Start: 5 @36261 has 35 MA's),

Gene: Powelldog_54 Start: 34287, Stop: 34532, Start Num: 4
Candidate Starts for Powelldog_54:
(Start: 4 @34287 has 20 MA's), (6, 34293), (11, 34317), (15, 34368), (17, 34416),

Gene: ProfFrink_50 Start: 33451, Stop: 33684, Start Num: 4
Candidate Starts for ProfFrink_50:
(Start: 4 @33451 has 20 MA's), (10, 33475), (15, 33532), (17, 33580), (18, 33586), (21, 33610), (22, 33625),

Gene: Raunak_50 Start: 33148, Stop: 33381, Start Num: 4
Candidate Starts for Raunak_50:
(Start: 4 @33148 has 20 MA's), (15, 33229), (17, 33277), (18, 33283), (21, 33307), (22, 33322),

Gene: RustyBoy_51 Start: 33219, Stop: 33467, Start Num: 4
Candidate Starts for RustyBoy_51:
(Start: 4 @33219 has 20 MA's), (11, 33249), (15, 33300), (17, 33348),

Gene: Salk_50 Start: 33448, Stop: 33681, Start Num: 4
Candidate Starts for Salk_50:
(Start: 4 @33448 has 20 MA's), (15, 33529), (17, 33577), (18, 33583), (21, 33607), (22, 33622),

Gene: ScienceWizSam_51 Start: 35736, Stop: 35906, Start Num: 5
Candidate Starts for ScienceWizSam_51:
(Start: 5 @35736 has 35 MA's),

Gene: Shepard_53 Start: 35563, Stop: 35733, Start Num: 5
Candidate Starts for Shepard_53:
(1, 35464), (2, 35470), (Start: 5 @35563 has 35 MA's),

Gene: Shiba_49 Start: 33148, Stop: 33381, Start Num: 4
Candidate Starts for Shiba_49:
(Start: 4 @33148 has 20 MA's), (10, 33172), (15, 33229), (17, 33277), (18, 33283), (21, 33307), (22, 33322),

Gene: Sloopyjoe_50 Start: 33452, Stop: 33685, Start Num: 4
Candidate Starts for Sloopyjoe_50:
(Start: 4 @33452 has 20 MA's), (10, 33476), (15, 33533), (17, 33581), (18, 33587), (21, 33611), (22, 33626),

Gene: Sporto_51 Start: 34915, Stop: 35157, Start Num: 4
Candidate Starts for Sporto_51:
(Start: 4 @34915 has 20 MA's), (11, 34945), (15, 34996), (17, 35044), (23, 35107),

Gene: Sprinkle_49 Start: 33969, Stop: 34181, Start Num: 12
Candidate Starts for Sprinkle_49:
(Start: 4 @33927 has 20 MA's), (6, 33933), (11, 33957), (12, 33969), (14, 33999), (16, 34011), (18, 34062),

Gene: StarLord_50 Start: 33451, Stop: 33684, Start Num: 4
Candidate Starts for StarLord_50:
(Start: 4 @33451 has 20 MA's), (10, 33475), (15, 33532), (17, 33580), (18, 33586), (21, 33610), (22, 33625),

Gene: Stayer_50 Start: 33448, Stop: 33681, Start Num: 4
Candidate Starts for Stayer_50:
(Start: 4 @33448 has 20 MA's), (10, 33472), (15, 33529), (17, 33577), (18, 33583), (21, 33607), (22, 33622),

Gene: Synepsis_49 Start: 35804, Stop: 35974, Start Num: 5
Candidate Starts for Synepsis_49:
(Start: 5 @35804 has 35 MA's),

Gene: Teacup_51 Start: 36164, Stop: 36334, Start Num: 5
Candidate Starts for Teacup_51:
(Start: 5 @36164 has 35 MA's),

Gene: Tenno_51 Start: 36467, Stop: 36637, Start Num: 5
Candidate Starts for Tenno_51:
(Start: 5 @36467 has 35 MA's),

Gene: Tipton_53 Start: 36008, Stop: 36175, Start Num: 5
Candidate Starts for Tipton_53:
(1, 35909), (2, 35915), (Start: 5 @36008 has 35 MA's),

Gene: Tokki_55 Start: 35895, Stop: 36062, Start Num: 5
Candidate Starts for Tokki_55:
(1, 35796), (2, 35802), (Start: 5 @35895 has 35 MA's),

Gene: Truckee_48 Start: 35488, Stop: 35670, Start Num: 5
Candidate Starts for Truckee_48:
(3, 35428), (Start: 5 @35488 has 35 MA's), (11, 35515), (21, 35644),

Gene: Trustiboi_50 Start: 36005, Stop: 36175, Start Num: 5
Candidate Starts for Trustiboi_50:
(Start: 5 @36005 has 35 MA's),

Gene: Westerlin_49 Start: 37018, Stop: 37188, Start Num: 5

Candidate Starts for Westerlin_49:
(Start: 5 @37018 has 35 MA's),

Gene: Zippen_52 Start: 36299, Stop: 36469, Start Num: 5
Candidate Starts for Zippen_52:
(Start: 5 @36299 has 35 MA's), (7, 36305), (8, 36311), (16, 36380),