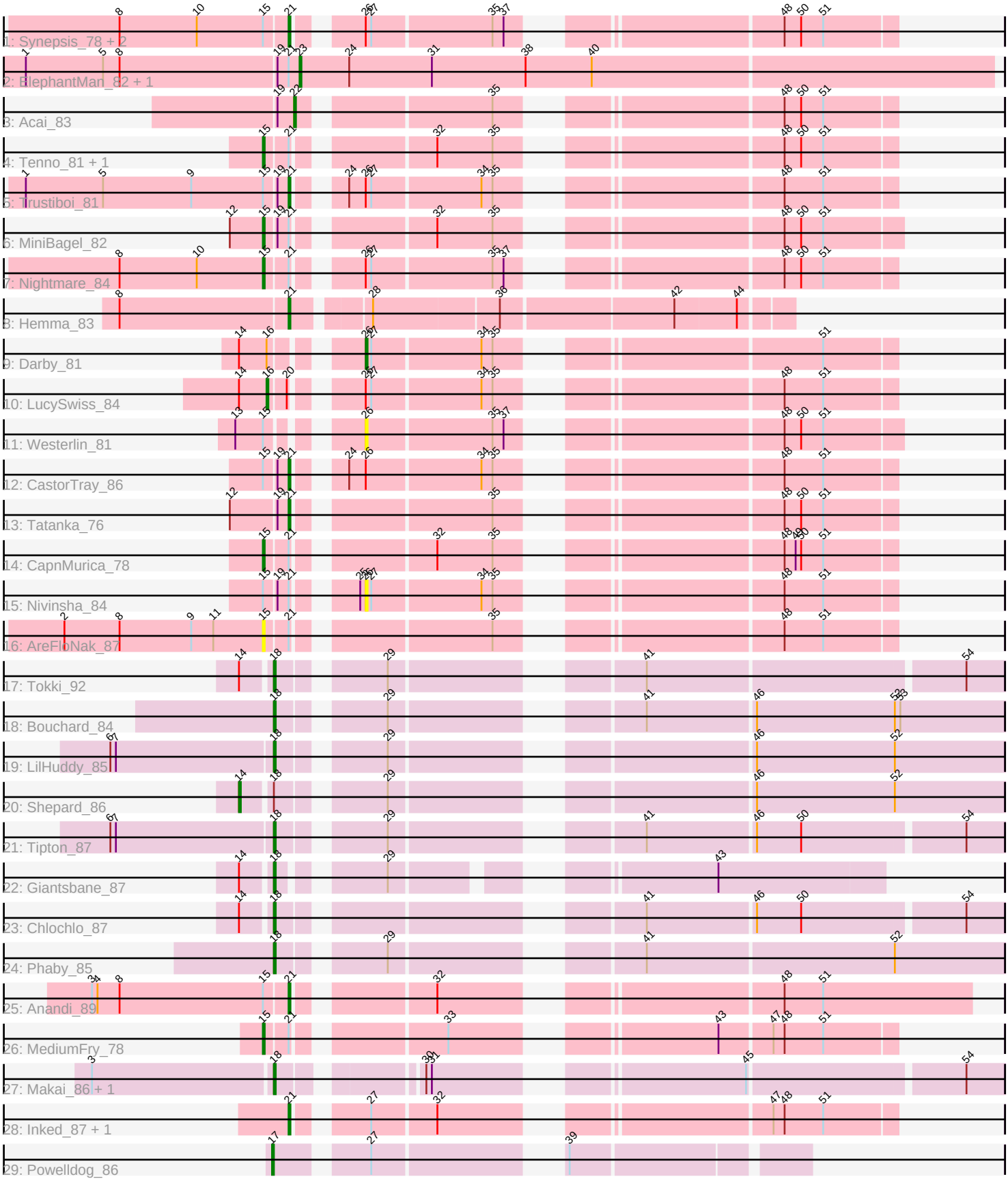
Pham 347856


1: Synepsis_78 + 2
2: ElephantMan_82 + 1
3: Acai_83
4: Tenno_81 + 1
5: Trustiboi_81
6: MiniBagel_82
7: Nightmare_84
8: Hemma_83
9: Darby_81
10: LucySwiss_84
11: Westerlin_81
12: CastorTray_86
13: Tatanka_76
14: CapnMurica_78
15: Nivinsha_84
16: AreFloNak_87
17: Tokki_92
18: Bouchard_84
19: LilHuddy_85
20: Shepard_86
21: Tipton_87
22: Giantsbane_87
23: Chlochlo_87
24: Phaby_85
25: Anandi_89
26: MediumFry_78
27: Makai_86 + 1
28: Inked_87 + 1
29: Powelldog_86

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 347856 Report

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

Pham number 347856 has 35 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Synepsis_78, DevitoJr_82, ScienceWizSam_84
- Track 2 : ElephantMan_82, Niktson_82
- Track 3 : Acai_83
- Track 4 : Tenno_81, Dinallo_76
- Track 5 : Trustiboi_81
- Track 6 : MiniBagel_82
- Track 7 : Nightmare_84
- Track 8 : Hemma_83
- Track 9 : Darby_81
- Track 10 : LucySwiss_84
- Track 11 : Westerlin_81
- Track 12 : CastorTray_86
- Track 13 : Tatanka_76
- Track 14 : CapnMurica_78
- Track 15 : Nivinsha_84
- Track 16 : AreFloNak_87
- Track 17 : Tokki_92
- Track 18 : Bouchard_84
- Track 19 : LilHuddy_85
- Track 20 : Shepard_86
- Track 21 : Tipton_87
- Track 22 : Giantsbane_87
- Track 23 : Chlochlo_87
- Track 24 : Phaby_85
- Track 25 : Anandi_89
- Track 26 : MediumFry_78
- Track 27 : Makai_86, Truckee_83
- Track 28 : Inked_87, Zippen_88
- Track 29 : Powelldog_86

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

The start number called the most often in the published annotations is 21, it was called in 10 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anandi_89, CastorTray_86, DevitoJr_82, Hemma_83, Inked_87, ScienceWizSam_84, Synepsis_78, Tatanka_76, Trustiboi_81, Zippen_88,

Genes that have the "Most Annotated" start but do not call it:
• AreFloNak_87, CapnMurica_78, Dinallo_76, ElephantMan_82, MediumFry_78, MiniBagel_82, Nightmare_84, Niktson_82, Nivinsha_84, Tenno_81,

Genes that do not have the "Most Annotated" start:
• Acai_83, Bouchard_84, Chlochlo_87, Darby_81, Giantsbane_87, LilHuddy_85, LucySwiss_84, Makai_86, Phaby_85, Powelldog_86, Shepard_86, Tipton_87, Tokki_92, Truckee_83, Westerlin_81,

Summary by start number:

Start 14:
• Found in 6 of 35 (17.1%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Shepard_86 (AU2),

Start 15:
• Found in 15 of 35 (42.9%) of genes in pham
• Manual Annotations of this start: 5 of 31
• Called 46.7% of time when present
• Phage (with cluster) where this start called: AreFloNak_87 (AU1), CapnMurica_78 (AU1), Dinallo_76 (AU1), MediumFry_78 (AU4), MiniBagel_82 (AU1), Nightmare_84 (AU1), Tenno_81 (AU1),

Start 16:
• Found in 2 of 35 (5.7%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LucySwiss_84 (AU1),

Start 17:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Powelldog_86 (AW),

Start 18:
• Found in 10 of 35 (28.6%) of genes in pham
• Manual Annotations of this start: 9 of 31
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Bouchard_84 (AU2), Chlochlo_87 (AU2), Giantsbane_87 (AU2), LilHuddy_85 (AU2), Makai_86 (AU5), Phaby_85 (AU2), Tipton_87 (AU2), Tokki_92 (AU2), Truckee_83 (AU5),

Start 21:
• Found in 20 of 35 (57.1%) of genes in pham
• Manual Annotations of this start: 10 of 31

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Anandi_89 (AU4), CastorTray_86 (AU1), DevitoJr_82 (AU1), Hemma_83 (AU1), Inked_87 (AU7), ScienceWizSam_84 (AU1), Synepsis_78 (AU1), Tatanka_76 (AU1), Trustiboi_81 (AU1), Zippen_88 (AU7),

Start 22:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acai_83 (AU1),

Start 23:
• Found in 2 of 35 (5.7%) of genes in pham
• Manual Annotations of this start: 2 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ElephantMan_82 (AU1), Niktson_82 (AU1),

Start 26:
• Found in 10 of 35 (28.6%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Darby_81 (AU1), Nivinsha_84 (AU1), Westerlin_81 (AU1),

Summary by clusters:

There are 6 clusters represented in this pham: AU7, AU1, AU2, AU5, AU4, AW,

Info for manual annotations of cluster AU1:
•Start number 15 was manually annotated 4 times for cluster AU1.
•Start number 16 was manually annotated 1 time for cluster AU1.
•Start number 21 was manually annotated 7 times for cluster AU1.
•Start number 22 was manually annotated 1 time for cluster AU1.
•Start number 23 was manually annotated 2 times for cluster AU1.
•Start number 26 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 14 was manually annotated 1 time for cluster AU2.
•Start number 18 was manually annotated 7 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 15 was manually annotated 1 time for cluster AU4.
•Start number 21 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 18 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 21 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 17 was manually annotated 1 time for cluster AW.

Gene Information:

Gene: Acai_83 Start: 52088, Stop: 52366, Start Num: 22
Candidate Starts for Acai_83:
(19, 52079), (Start: 22 @52088 has 1 MA's), (35, 52181), (48, 52307), (50, 52316), (51, 52328),

Gene: Anandi_89 Start: 52234, Stop: 52554, Start Num: 21
Candidate Starts for Anandi_89:
(3, 52129), (4, 52132), (8, 52144), (Start: 15 @52222 has 5 MA's), (Start: 21 @52234 has 10 MA's), (32, 52297), (48, 52453), (51, 52474),

Gene: AreFloNak_87 Start: 52158, Stop: 52448, Start Num: 15
Candidate Starts for AreFloNak_87:
(2, 52050), (8, 52080), (9, 52119), (11, 52131), (Start: 15 @52158 has 5 MA's), (Start: 21 @52170 has 10 MA's), (35, 52263), (48, 52389), (51, 52410),

Gene: Bouchard_84 Start: 52033, Stop: 52383, Start Num: 18
Candidate Starts for Bouchard_84:
(Start: 18 @52033 has 9 MA's), (29, 52081), (41, 52192), (46, 52249), (52, 52324), (53, 52327),

Gene: CapnMurica_78 Start: 52343, Stop: 52633, Start Num: 15
Candidate Starts for CapnMurica_78:
(Start: 15 @52343 has 5 MA's), (Start: 21 @52355 has 10 MA's), (32, 52418), (35, 52448), (48, 52574), (49, 52580), (50, 52583), (51, 52595),

Gene: CastorTray_86 Start: 52899, Stop: 53177, Start Num: 21
Candidate Starts for CastorTray_86:
(Start: 15 @52887 has 5 MA's), (19, 52893), (Start: 21 @52899 has 10 MA's), (24, 52917), (Start: 26 @52926 has 1 MA's), (34, 52986), (35, 52992), (48, 53118), (51, 53139),

Gene: Chlochlo_87 Start: 52195, Stop: 52539, Start Num: 18
Candidate Starts for Chlochlo_87:
(Start: 14 @52180 has 1 MA's), (Start: 18 @52195 has 9 MA's), (41, 52354), (46, 52411), (50, 52435), (54, 52519),

Gene: Darby_81 Start: 52415, Stop: 52666, Start Num: 26
Candidate Starts for Darby_81:
(Start: 14 @52364 has 1 MA's), (Start: 16 @52379 has 1 MA's), (Start: 26 @52415 has 1 MA's), (27, 52418), (34, 52475), (35, 52481), (51, 52628),

Gene: DevitoJr_82 Start: 52047, Stop: 52325, Start Num: 21
Candidate Starts for DevitoJr_82:
(8, 51957), (10, 51999), (Start: 15 @52035 has 5 MA's), (Start: 21 @52047 has 10 MA's), (Start: 26 @52074 has 1 MA's), (27, 52077), (35, 52140), (37, 52146), (48, 52266), (50, 52275), (51, 52287),

Gene: Dinallo_76 Start: 52586, Stop: 52876, Start Num: 15
Candidate Starts for Dinallo_76:
(Start: 15 @52586 has 5 MA's), (Start: 21 @52598 has 10 MA's), (32, 52661), (35, 52691), (48, 52817), (50, 52826), (51, 52838),

Gene: ElephantMan_82 Start: 52676, Stop: 53050, Start Num: 23
Candidate Starts for ElephantMan_82:
(1, 52529), (5, 52571), (8, 52580), (19, 52664), (Start: 21 @52670 has 10 MA's), (Start: 23 @52676 has 2 MA's), (24, 52703), (31, 52748), (38, 52799), (40, 52835),

Gene: Giantsbane_87 Start: 51659, Stop: 51931, Start Num: 18
Candidate Starts for Giantsbane_87:
(Start: 14 @51644 has 1 MA's), (Start: 18 @51659 has 9 MA's), (29, 51704), (43, 51842),

Gene: Hemma_83 Start: 49940, Stop: 50191, Start Num: 21
Candidate Starts for Hemma_83:
(8, 49850), (Start: 21 @49940 has 10 MA's), (28, 49976), (36, 50042), (42, 50132), (44, 50165),

Gene: Inked_87 Start: 52710, Stop: 52988, Start Num: 21
Candidate Starts for Inked_87:
(Start: 21 @52710 has 10 MA's), (27, 52740), (32, 52773), (47, 52923), (48, 52929), (51, 52950),

Gene: LilHuddy_85 Start: 52109, Stop: 52459, Start Num: 18
Candidate Starts for LilHuddy_85:
(6, 52022), (7, 52025), (Start: 18 @52109 has 9 MA's), (29, 52157), (46, 52325), (52, 52400),

Gene: LucySwiss_84 Start: 52293, Stop: 52580, Start Num: 16
Candidate Starts for LucySwiss_84:
(Start: 14 @52278 has 1 MA's), (Start: 16 @52293 has 1 MA's), (20, 52302), (Start: 26 @52329 has 1 MA's), (27, 52332), (34, 52389), (35, 52395), (48, 52521), (51, 52542),

Gene: Makai_86 Start: 52779, Stop: 53117, Start Num: 18
Candidate Starts for Makai_86:
(3, 52683), (Start: 18 @52779 has 9 MA's), (30, 52842), (31, 52845), (45, 52986), (54, 53097),

Gene: MediumFry_78 Start: 51487, Stop: 51777, Start Num: 15
Candidate Starts for MediumFry_78:
(Start: 15 @51487 has 5 MA's), (Start: 21 @51499 has 10 MA's), (33, 51568), (43, 51685), (47, 51712), (48, 51718), (51, 51739),

Gene: MiniBagel_82 Start: 52344, Stop: 52637, Start Num: 15
Candidate Starts for MiniBagel_82:
(12, 52326), (Start: 15 @52344 has 5 MA's), (19, 52350), (Start: 21 @52356 has 10 MA's), (32, 52419), (35, 52449), (48, 52575), (50, 52584), (51, 52596),

Gene: Nightmare_84 Start: 52989, Stop: 53279, Start Num: 15
Candidate Starts for Nightmare_84:
(8, 52911), (10, 52953), (Start: 15 @52989 has 5 MA's), (Start: 21 @53001 has 10 MA's), (Start: 26 @53028 has 1 MA's), (27, 53031), (35, 53094), (37, 53100), (48, 53220), (50, 53229), (51, 53241),

Gene: Niktson_82 Start: 52676, Stop: 53050, Start Num: 23
Candidate Starts for Niktson_82:
(1, 52529), (5, 52571), (8, 52580), (19, 52664), (Start: 21 @52670 has 10 MA's), (Start: 23 @52676 has 2 MA's), (24, 52703), (31, 52748), (38, 52799), (40, 52835),

Gene: Nivinsha_84 Start: 52198, Stop: 52449, Start Num: 26
Candidate Starts for Nivinsha_84:

(Start: 15 @52159 has 5 MA's), (19, 52165), (Start: 21 @52171 has 10 MA's), (25, 52195), (Start: 26 @52198 has 1 MA's), (27, 52201), (34, 52258), (35, 52264), (48, 52390), (51, 52411),

Gene: Phaby_85 Start: 52012, Stop: 52362, Start Num: 18
Candidate Starts for Phaby_85:
(Start: 18 @52012 has 9 MA's), (29, 52060), (41, 52171), (52, 52303),

Gene: Powelldog_86 Start: 50695, Stop: 50937, Start Num: 17
Candidate Starts for Powelldog_86:
(Start: 17 @50695 has 1 MA's), (27, 50737), (39, 50818),

Gene: ScienceWizSam_84 Start: 52220, Stop: 52498, Start Num: 21
Candidate Starts for ScienceWizSam_84:
(8, 52130), (10, 52172), (Start: 15 @52208 has 5 MA's), (Start: 21 @52220 has 10 MA's), (Start: 26 @52247 has 1 MA's), (27, 52250), (35, 52313), (37, 52319), (48, 52439), (50, 52448), (51, 52460),

Gene: Shepard_86 Start: 52221, Stop: 52586, Start Num: 14
Candidate Starts for Shepard_86:
(Start: 14 @52221 has 1 MA's), (Start: 18 @52236 has 9 MA's), (29, 52284), (46, 52452), (52, 52527),

Gene: Synepsis_78 Start: 52058, Stop: 52336, Start Num: 21
Candidate Starts for Synepsis_78:
(8, 51968), (10, 52010), (Start: 15 @52046 has 5 MA's), (Start: 21 @52058 has 10 MA's), (Start: 26 @52085 has 1 MA's), (27, 52088), (35, 52151), (37, 52157), (48, 52277), (50, 52286), (51, 52298),

Gene: Tatanka_76 Start: 51974, Stop: 52252, Start Num: 21
Candidate Starts for Tatanka_76:
(12, 51944), (19, 51968), (Start: 21 @51974 has 10 MA's), (35, 52067), (48, 52193), (50, 52202), (51, 52214),

Gene: Tenno_81 Start: 52377, Stop: 52667, Start Num: 15
Candidate Starts for Tenno_81:
(Start: 15 @52377 has 5 MA's), (Start: 21 @52389 has 10 MA's), (32, 52452), (35, 52482), (48, 52608), (50, 52617), (51, 52629),

Gene: Tipton_87 Start: 52473, Stop: 52817, Start Num: 18
Candidate Starts for Tipton_87:
(6, 52386), (7, 52389), (Start: 18 @52473 has 9 MA's), (29, 52521), (41, 52632), (46, 52689), (50, 52713), (54, 52797),

Gene: Tokki_92 Start: 52593, Stop: 52937, Start Num: 18
Candidate Starts for Tokki_92:
(Start: 14 @52578 has 1 MA's), (Start: 18 @52593 has 9 MA's), (29, 52641), (41, 52752), (54, 52917),

Gene: Truckee_83 Start: 52472, Stop: 52810, Start Num: 18
Candidate Starts for Truckee_83:
(3, 52376), (Start: 18 @52472 has 9 MA's), (30, 52535), (31, 52538), (45, 52679), (54, 52790),

Gene: Trustiboi_81 Start: 52407, Stop: 52685, Start Num: 21
Candidate Starts for Trustiboi_81:
(1, 52266), (5, 52308), (9, 52356), (Start: 15 @52395 has 5 MA's), (19, 52401), (Start: 21 @52407 has 10 MA's), (24, 52425), (Start: 26 @52434 has 1 MA's), (27, 52437), (34, 52494), (35, 52500), (48, 52626), (51, 52647),

Gene: Westerlin_81 Start: 53658, Stop: 53912, Start Num: 26
Candidate Starts for Westerlin_81:
(13, 53607), (Start: 15 @53622 has 5 MA's), (Start: 26 @53658 has 1 MA's), (35, 53724), (37, 53730), (48, 53850), (50, 53859), (51, 53871),

Gene: Zippen_88 Start: 52752, Stop: 53030, Start Num: 21
Candidate Starts for Zippen_88:
(Start: 21 @52752 has 10 MA's), (27, 52782), (32, 52815), (47, 52965), (48, 52971), (51, 52992),