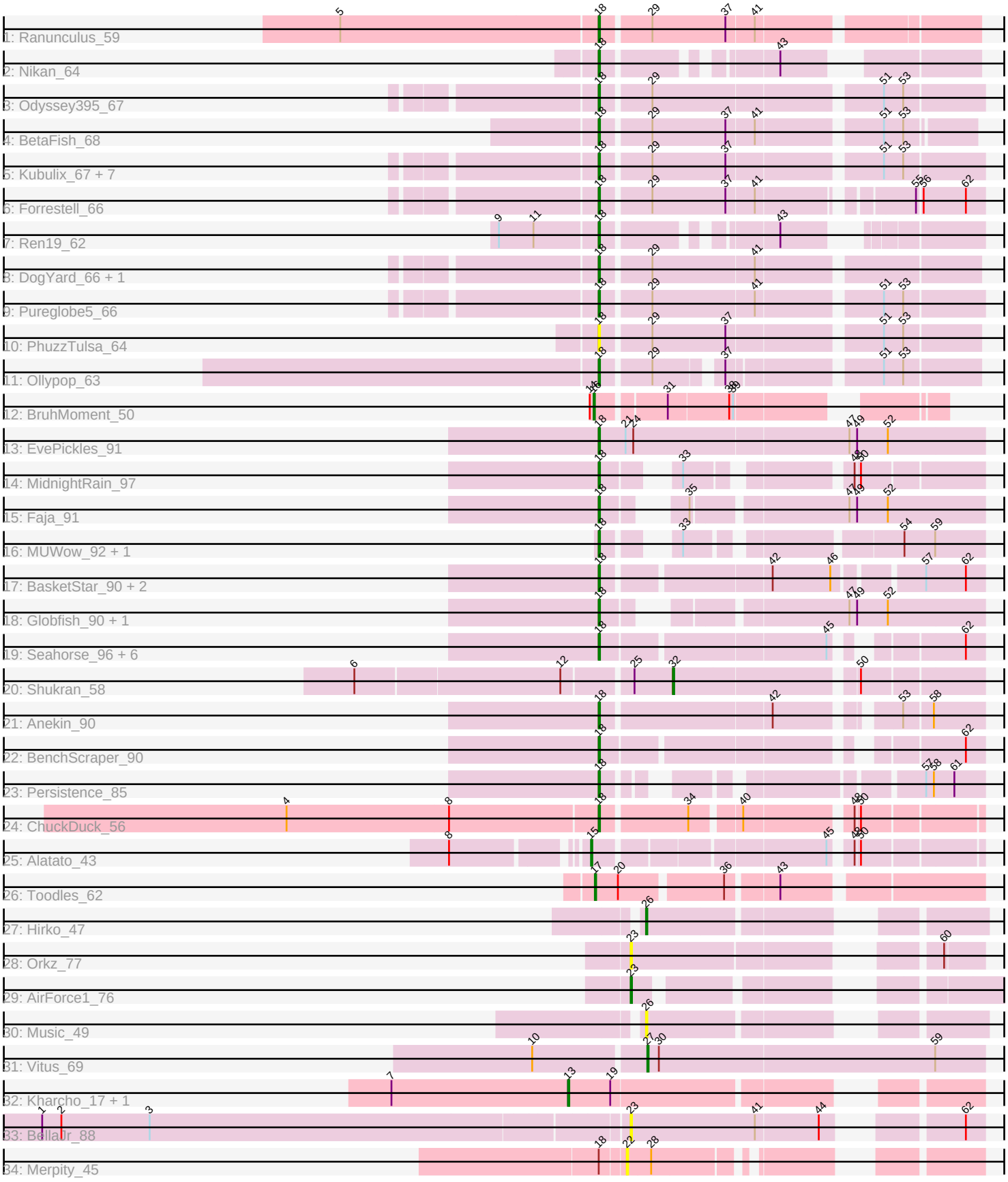
Pham 347689


1: Ranunculus_59
2: Nikan_64
3: Odyssey395_67
4: BetaFish_68
5: Kubulix_67 + 7
6: Forrestell_66
7: Ren19_62
8: DogYard_66 + 1
9: Pureglobe5_66
10: PhuzzTulsa_64
11: Ollypop_63
12: BruhMoment_50
13: EvePickles_91
14: MidnightRain_97
15: Faja_91
16: MUWow_92 + 1
17: BasketStar_90 + 2
18: Globfish_90 + 1
19: Seahorse_96 + 6
20: Shukran_58
21: Anekin_90
22: BenchScraper_90
23: Persistence_85
24: ChuckDuck_56
25: Alatato_43
26: Toodles_62
27: Hirko_47
28: Orkz_77
29: AirForce1_76
30: Music_49
31: Vitus_69
32: Kharcho_17 + 1
33: Bellatr_88
34: Merpity_45

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 347689 Report

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

Pham number 347689 has 53 members, 10 are drafts.

Phages represented in each track:
- Track 1 : Ranunculus_59
- Track 2 : Nikan_64
- Track 3 : Odyssey395_67
- Track 4 : BetaFish_68
- Track 5 : Kubulix_67, RIPWilbur_66, NyleyClemson_65, MellowYellow_67, Beagle_67, RazzB_66, Pointis_64, Hive_63
- Track 6 : Forrestell_66
- Track 7 : Ren19_62
- Track 8 : DogYard_66, Popstraw_62
- Track 9 : Pureglobe5_66
- Track 10 : PhuzzTulsa_64
- Track 11 : Ollypop_63
- Track 12 : BruhMoment_50
- Track 13 : EvePickles_91
- Track 14 : MidnightRain_97
- Track 15 : Faja_91
- Track 16 : MUWow_92, NewKitty_91
- Track 17 : BasketStar_90, DarwinJr_93, Isolde_91
- Track 18 : Globfish_90, SpicyFrank_92
- Track 19 : Seahorse_96, Mapleville_83, Gorpy_88, Crescenzo_91, Nyilah_97, Richie_93, Sakai_87
- Track 20 : Shukran_58
- Track 21 : Anekin_90
- Track 22 : BenchScraper_90
- Track 23 : Persistence_85
- Track 24 : ChuckDuck_56
- Track 25 : Alatato_43
- Track 26 : Toodles_62
- Track 27 : Hirko_47
- Track 28 : Orkz_77
- Track 29 : AirForce1_76
- Track 30 : Music_49
- Track 31 : Vitus_69
- Track 32 : Kharcho_17, Ottawa_17
- Track 33 : BellaJr_88
- Track 34 : Merpity_45

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

The start number called the most often in the published annotations is 18, it was called in 34 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anekin_90, BasketStar_90, Beagle_67, BenchScraper_90, BetaFish_68, ChuckDuck_56, Crescenzo_91, DarwinJr_93, DogYard_66, EvePickles_91, Faja_91, Forrestell_66, Globfish_90, Gorpy_88, Hive_63, Isolde_91, Kubulix_67, MUWow_92, Mapleville_83, MellowYellow_67, MidnightRain_97, NewKitty_91, Nikan_64, Nyilah_97, NyleyClemson_65, Odyssey395_67, Ollypop_63, Persistence_85, PhuzzTulsa_64, Pointis_64, Popstraw_62, Pureglobe5_66, RIPWilbur_66, Ranunculus_59, RazzB_66, Ren19_62, Richie_93, Sakai_87, Seahorse_96, SpicyFrank_92,

Genes that have the "Most Annotated" start but do not call it:
• Merpity_45,

Genes that do not have the "Most Annotated" start:
• AirForce1_76, Alatato_43, BellaJr_88, BruhMoment_50, Hirko_47, Kharcho_17, Music_49, Orkz_77, Ottawa_17, Shukran_58, Toodles_62, Vitus_69,

Summary by start number:

Start 13:
• Found in 2 of 53 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kharcho_17 (FM), Ottawa_17 (FM),

Start 15:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatato_43 (FB),

Start 16:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BruhMoment_50 (AP3),

Start 17:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toodles_62 (FF),

Start 18:
• Found in 41 of 53 (77.4%) of genes in pham

• Manual Annotations of this start: 34 of 43
• Called 97.6% of time when present
• Phage (with cluster) where this start called: Anekin_90 (AY), BasketStar_90 (AY), Beagle_67 (AP2), BenchScraper_90 (AY), BetaFish_68 (AP2), ChuckDuck_56 (FA), Crescenzo_91 (AY), DarwinJr_93 (AY), DogYard_66 (AP2), EvePickles_91 (AY), Faja_91 (AY), Forrestell_66 (AP2), Globfish_90 (AY), Gorpy_88 (AY), Hive_63 (AP2), Isolde_91 (AY), Kubulix_67 (AP2), MUWow_92 (AY), Mapleville_83 (AY), MellowYellow_67 (AP2), MidnightRain_97 (AY), NewKitty_91 (AY), Nikan_64 (AP2), Nyilah_97 (AY), NyleyClemson_65 (AP2), Odyssey395_67 (AP2), Ollypop_63 (AP2), Persistence_85 (AY), PhuzzTulsa_64 (AP2), Pointis_64 (AP2), Popstraw_62 (AP2), Pureglobe5_66 (AP2), RIPWilbur_66 (AP2), Ranunculus_59 (AP), RazzB_66 (AP2), Ren19_62 (AP2), Richie_93 (AY), Sakai_87 (AY), Seahorse_96 (AY), SpicyFrank_92 (AY),

Start 22:
• Found in 1 of 53 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Merpity_45 (FQ1),

Start 23:
• Found in 3 of 53 (5.7%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_76 (FL), BellaJr_88 (FN), Orkz_77 (FL),

Start 26:
• Found in 2 of 53 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hirko_47 (FL), Music_49 (FL),

Start 27:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vitus_69 (FL),

Start 32:
• Found in 1 of 53 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shukran_58 (AY),

Summary by clusters:

There are 11 clusters represented in this pham: FA, AP2, AP3, AP, FB, FF, AY, FQ1, FL, FM, FN,

Info for manual annotations of cluster AP:
•Start number 18 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:
•Start number 18 was manually annotated 15 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 16 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AY:
•Start number 18 was manually annotated 17 times for cluster AY.
•Start number 32 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:
•Start number 18 was manually annotated 1 time for cluster FA.

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

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

Info for manual annotations of cluster FL:
•Start number 23 was manually annotated 1 time for cluster FL.
•Start number 26 was manually annotated 1 time for cluster FL.
•Start number 27 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FM:
•Start number 13 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: AirForce1_76 Start: 43771, Stop: 44016, Start Num: 23
Candidate Starts for AirForce1_76:
(Start: 23 @43771 has 1 MA's),

Gene: Alatato_43 Start: 27741, Stop: 28007, Start Num: 15
Candidate Starts for Alatato_43:
(8, 27651), (Start: 15 @27741 has 1 MA's), (45, 27906), (48, 27918), (50, 27921),

Gene: Anekin_90 Start: 50152, Stop: 50415, Start Num: 18
Candidate Starts for Anekin_90:
(Start: 18 @50152 has 34 MA's), (42, 50278), (53, 50356), (58, 50377),

Gene: BasketStar_90 Start: 49766, Stop: 50035, Start Num: 18
Candidate Starts for BasketStar_90:
(Start: 18 @49766 has 34 MA's), (42, 49886), (46, 49931), (57, 49991), (62, 50021),

Gene: Beagle_67 Start: 42365, Stop: 42090, Start Num: 18
Candidate Starts for Beagle_67:
(Start: 18 @42365 has 34 MA's), (29, 42329), (37, 42272), (51, 42164), (53, 42149),

Gene: BellaJr_88 Start: 49498, Stop: 49731, Start Num: 23
Candidate Starts for BellaJr_88:
(1, 49054), (2, 49069), (3, 49138), (Start: 23 @49498 has 1 MA's), (41, 49594), (44, 49642), (62, 49717),

Gene: BenchScraper_90 Start: 48171, Stop: 48425, Start Num: 18
Candidate Starts for BenchScraper_90:
(Start: 18 @48171 has 34 MA's), (62, 48411),

Gene: BetaFish_68 Start: 43321, Stop: 43055, Start Num: 18
Candidate Starts for BetaFish_68:
(Start: 18 @43321 has 34 MA's), (29, 43285), (37, 43228), (41, 43207), (51, 43120), (53, 43105),

Gene: BruhMoment_50 Start: 39910, Stop: 39683, Start Num: 16
Candidate Starts for BruhMoment_50:
(14, 39913), (Start: 16 @39910 has 1 MA's), (31, 39862), (38, 39817), (39, 39814),

Gene: ChuckDuck_56 Start: 35927, Stop: 36187, Start Num: 18
Candidate Starts for ChuckDuck_56:
(4, 35687), (8, 35813), (Start: 18 @35927 has 34 MA's), (34, 35990), (40, 36023), (48, 36098), (50, 36101),

Gene: Crescenzo_91 Start: 51175, Stop: 51429, Start Num: 18
Candidate Starts for Crescenzo_91:
(Start: 18 @51175 has 34 MA's), (45, 51340), (62, 51415),

Gene: DarwinJr_93 Start: 51289, Stop: 51558, Start Num: 18
Candidate Starts for DarwinJr_93:
(Start: 18 @51289 has 34 MA's), (42, 51409), (46, 51454), (57, 51514), (62, 51544),

Gene: DogYard_66 Start: 42560, Stop: 42288, Start Num: 18
Candidate Starts for DogYard_66:
(Start: 18 @42560 has 34 MA's), (29, 42524), (41, 42446),

Gene: EvePickles_91 Start: 50887, Stop: 51183, Start Num: 18
Candidate Starts for EvePickles_91:
(Start: 18 @50887 has 34 MA's), (21, 50908), (24, 50914), (47, 51079), (49, 51085), (52, 51109),

Gene: Faja_91 Start: 50148, Stop: 50402, Start Num: 18
Candidate Starts for Faja_91:
(Start: 18 @50148 has 34 MA's), (35, 50187), (47, 50298), (49, 50304), (52, 50328),

Gene: Forrestell_66 Start: 41892, Stop: 41626, Start Num: 18
Candidate Starts for Forrestell_66:
(Start: 18 @41892 has 34 MA's), (29, 41856), (37, 41799), (41, 41778), (55, 41676), (56, 41673), (62, 41640),

Gene: Globfish_90 Start: 48891, Stop: 49145, Start Num: 18
Candidate Starts for Globfish_90:
(Start: 18 @48891 has 34 MA's), (47, 49041), (49, 49047), (52, 49071),

Gene: Gorpy_88 Start: 50899, Stop: 51153, Start Num: 18
Candidate Starts for Gorpy_88:

(Start: 18 @50899 has 34 MA's), (45, 51064), (62, 51139),

Gene: Hirko_47 Start: 36253, Stop: 36468, Start Num: 26
Candidate Starts for Hirko_47:
(Start: 26 @36253 has 1 MA's),

Gene: Hive_63 Start: 42585, Stop: 42313, Start Num: 18
Candidate Starts for Hive_63:
(Start: 18 @42585 has 34 MA's), (29, 42549), (37, 42492), (51, 42384), (53, 42369),

Gene: Isolde_91 Start: 50741, Stop: 51010, Start Num: 18
Candidate Starts for Isolde_91:
(Start: 18 @50741 has 34 MA's), (42, 50861), (46, 50906), (57, 50966), (62, 50996),

Gene: Kharcho_17 Start: 5031, Stop: 5303, Start Num: 13
Candidate Starts for Kharcho_17:
(7, 4893), (Start: 13 @5031 has 2 MA's), (19, 5064),

Gene: Kubulix_67 Start: 42478, Stop: 42203, Start Num: 18
Candidate Starts for Kubulix_67:
(Start: 18 @42478 has 34 MA's), (29, 42442), (37, 42385), (51, 42277), (53, 42262),

Gene: MUWow_92 Start: 50937, Stop: 51179, Start Num: 18
Candidate Starts for MUWow_92:
(Start: 18 @50937 has 34 MA's), (33, 50973), (54, 51117), (59, 51141),

Gene: Mapleville_83 Start: 48385, Stop: 48639, Start Num: 18
Candidate Starts for Mapleville_83:
(Start: 18 @48385 has 34 MA's), (45, 48550), (62, 48625),

Gene: MellowYellow_67 Start: 42565, Stop: 42293, Start Num: 18
Candidate Starts for MellowYellow_67:
(Start: 18 @42565 has 34 MA's), (29, 42529), (37, 42472), (51, 42364), (53, 42349),

Gene: Merpity_45 Start: 28400, Stop: 28615, Start Num: 22
Candidate Starts for Merpity_45:
(Start: 18 @28382 has 34 MA's), (22, 28400), (28, 28418),

Gene: MidnightRain_97 Start: 51392, Stop: 51628, Start Num: 18
Candidate Starts for MidnightRain_97:
(Start: 18 @51392 has 34 MA's), (33, 51431), (48, 51536), (50, 51539),

Gene: Music_49 Start: 36867, Stop: 37082, Start Num: 26
Candidate Starts for Music_49:
(Start: 26 @36867 has 1 MA's),

Gene: NewKitty_91 Start: 50380, Stop: 50622, Start Num: 18
Candidate Starts for NewKitty_91:
(Start: 18 @50380 has 34 MA's), (33, 50416), (54, 50560), (59, 50584),

Gene: Nikan_64 Start: 42436, Stop: 42206, Start Num: 18
Candidate Starts for Nikan_64:
(Start: 18 @42436 has 34 MA's), (43, 42328),

Gene: Nyilah_97 Start: 49853, Stop: 50107, Start Num: 18
Candidate Starts for Nyilah_97:
(Start: 18 @49853 has 34 MA's), (45, 50018), (62, 50093),

Gene: NyleyClemson_65 Start: 42180, Stop: 41908, Start Num: 18
Candidate Starts for NyleyClemson_65:
(Start: 18 @42180 has 34 MA's), (29, 42144), (37, 42087), (51, 41979), (53, 41964),

Gene: Odyssey395_67 Start: 42602, Stop: 42327, Start Num: 18
Candidate Starts for Odyssey395_67:
(Start: 18 @42602 has 34 MA's), (29, 42566), (51, 42401), (53, 42386),

Gene: Ollypop_63 Start: 43106, Stop: 42852, Start Num: 18
Candidate Starts for Ollypop_63:
(Start: 18 @43106 has 34 MA's), (29, 43070), (37, 43028), (51, 42923), (53, 42908),

Gene: Orkz_77 Start: 42490, Stop: 42714, Start Num: 23
Candidate Starts for Orkz_77:
(Start: 23 @42490 has 1 MA's), (60, 42685),

Gene: Ottawa_17 Start: 5031, Stop: 5303, Start Num: 13
Candidate Starts for Ottawa_17:
(7, 4893), (Start: 13 @5031 has 2 MA's), (19, 5064),

Gene: Persistence_85 Start: 47551, Stop: 47787, Start Num: 18
Candidate Starts for Persistence_85:
(Start: 18 @47551 has 34 MA's), (57, 47743), (58, 47749), (61, 47764),

Gene: PhuzzTulsa_64 Start: 42826, Stop: 42554, Start Num: 18
Candidate Starts for PhuzzTulsa_64:
(Start: 18 @42826 has 34 MA's), (29, 42790), (37, 42733), (51, 42625), (53, 42610),

Gene: Pointis_64 Start: 42405, Stop: 42130, Start Num: 18
Candidate Starts for Pointis_64:
(Start: 18 @42405 has 34 MA's), (29, 42369), (37, 42312), (51, 42204), (53, 42189),

Gene: Popstraw_62 Start: 42319, Stop: 42047, Start Num: 18
Candidate Starts for Popstraw_62:
(Start: 18 @42319 has 34 MA's), (29, 42283), (41, 42205),

Gene: Pureglobe5_66 Start: 42849, Stop: 42574, Start Num: 18
Candidate Starts for Pureglobe5_66:
(Start: 18 @42849 has 34 MA's), (29, 42813), (41, 42735), (51, 42648), (53, 42633),

Gene: RIPWilbur_66 Start: 42443, Stop: 42171, Start Num: 18
Candidate Starts for RIPWilbur_66:
(Start: 18 @42443 has 34 MA's), (29, 42407), (37, 42350), (51, 42242), (53, 42227),

Gene: Ranunculus_59 Start: 44856, Stop: 44584, Start Num: 18
Candidate Starts for Ranunculus_59:
(5, 45054), (Start: 18 @44856 has 34 MA's), (29, 44820), (37, 44763), (41, 44742),

Gene: RazzB_66 Start: 42311, Stop: 42039, Start Num: 18
Candidate Starts for RazzB_66:
(Start: 18 @42311 has 34 MA's), (29, 42275), (37, 42218), (51, 42110), (53, 42095),

Gene: Ren19_62 Start: 42043, Stop: 41816, Start Num: 18
Candidate Starts for Ren19_62:
(9, 42118), (11, 42091), (Start: 18 @42043 has 34 MA's), (43, 41935),

Gene: Richie_93 Start: 50743, Stop: 50997, Start Num: 18
Candidate Starts for Richie_93:
(Start: 18 @50743 has 34 MA's), (45, 50908), (62, 50983),

Gene: Sakai_87 Start: 49610, Stop: 49864, Start Num: 18
Candidate Starts for Sakai_87:
(Start: 18 @49610 has 34 MA's), (45, 49775), (62, 49850),

Gene: Seahorse_96 Start: 54256, Stop: 54510, Start Num: 18
Candidate Starts for Seahorse_96:
(Start: 18 @54256 has 34 MA's), (45, 54421), (62, 54496),

Gene: Shukran_58 Start: 32719, Stop: 32940, Start Num: 32
Candidate Starts for Shukran_58:
(6, 32485), (12, 32641), (25, 32689), (Start: 32 @32719 has 1 MA's), (50, 32851),

Gene: SpicyFrank_92 Start: 49662, Stop: 49916, Start Num: 18
Candidate Starts for SpicyFrank_92:
(Start: 18 @49662 has 34 MA's), (47, 49812), (49, 49818), (52, 49842),

Gene: Toodles_62 Start: 39232, Stop: 39504, Start Num: 17
Candidate Starts for Toodles_62:
(Start: 17 @39232 has 1 MA's), (20, 39250), (36, 39325), (43, 39361),

Gene: Vitus_69 Start: 42739, Stop: 42999, Start Num: 27
Candidate Starts for Vitus_69:
(10, 42655), (Start: 27 @42739 has 1 MA's), (30, 42748), (59, 42961),