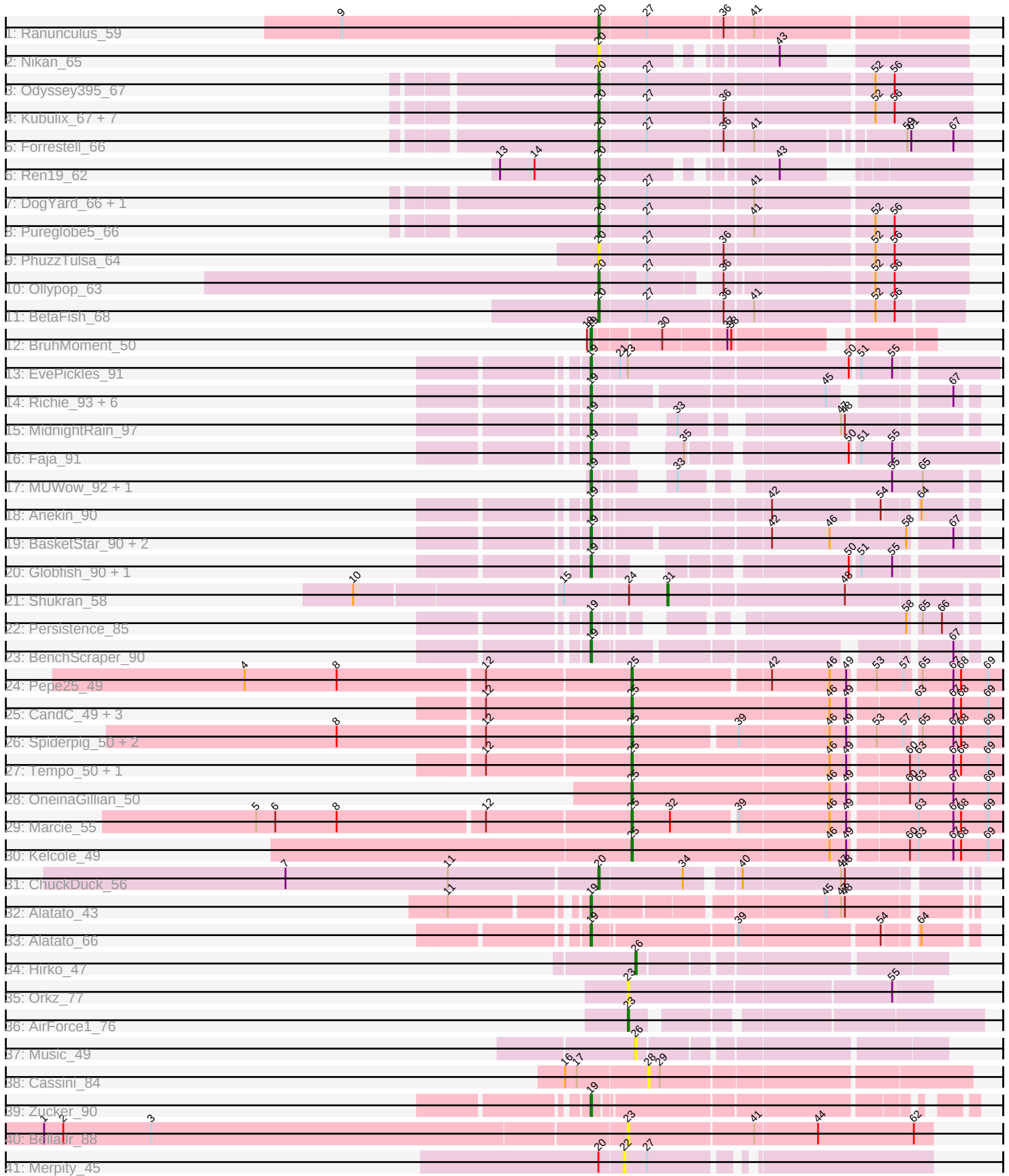


Pham 330848



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 330848 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330848 has 65 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Ranunculus_59
- Track 2 : Nikan_65
- Track 3 : Odyssey395_67
- Track 4 : Kubulix_67, RIPWilbur_66, NyleyClemson_65, MellowYellow_67, Beagle_67, RazzB_66, Pointis_64, Hive_63
- Track 5 : Forrestell_66
- Track 6 : Ren19_62
- Track 7 : DogYard_66, Popstraw_62
- Track 8 : Pureglobe5_66
- Track 9 : PhuzzTulsa_64
- Track 10 : Ollypop_63
- Track 11 : BetaFish_68
- Track 12 : BruhMoment_50
- Track 13 : EvePickles_91
- Track 14 : Richie_93, Seahorse_96, Gorpy_88, Mapleville_83, Crescenzo_91, Nyilah_97, Sakai_87
- Track 15 : MidnightRain_97
- Track 16 : Faja_91
- Track 17 : MUWow_92, NewKitty_91
- Track 18 : Anekin_90
- Track 19 : BasketStar_90, Isolde_91, DarwinJr_93
- Track 20 : Globfish_90, SpicyFrank_92
- Track 21 : Shukran_58
- Track 22 : Persistence_85
- Track 23 : BenchScraper_90
- Track 24 : Pepe25_49
- Track 25 : CandC_49, RobinRose_52, KillerQueen_51, Romm_52
- Track 26 : Spiderpig_50, BirdInFrench_50, Wilca_50
- Track 27 : Tempo_50, Fregley_51
- Track 28 : OneinaGillian_50
- Track 29 : Marcie_55
- Track 30 : Kelcole_49
- Track 31 : ChuckDuck_56
- Track 32 : Alatato_43
- Track 33 : Alatato_66
- Track 34 : Hirko_47
- Track 35 : Orkz_77

- Track 36 : AirForce1_76
- Track 37 : Music_49
- Track 38 : Cassini_84
- Track 39 : Zucker_90
- Track 40 : BellaJr_88
- Track 41 : 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 19, it was called in 21 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatato_43, Alatato_66, Anekin_90, BasketStar_90, BenchScraper_90, BruhMoment_50, Crescenzo_91, DarwinJr_93, EvePickles_91, Faja_91, Globfish_90, Gorpy_88, Isolde_91, MUWow_92, Mapleville_83, MidnightRain_97, NewKitty_91, Nyilah_97, Persistence_85, Richie_93, Sakai_87, Seahorse_96, SpicyFrank_92, Zucker_90,

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

-

Genes that do not have the "Most Annotated" start:

- AirForce1_76, Beagle_67, BellaJr_88, BetaFish_68, BirdInFrench_50, CandC_49, Cassini_84, ChuckDuck_56, DogYard_66, Forrestell_66, Fregley_51, Hirko_47, Hive_63, Kelcole_49, KillerQueen_51, Kubulix_67, Marcie_55, MellowYellow_67, Merpity_45, Music_49, Nikan_65, NyleyClemson_65, Odyssey395_67, Ollypop_63, OneinaGillian_50, Orkz_77, Pepe25_49, PhuzzTulsa_64, Pointis_64, Popstraw_62, Pureglobe5_66, RIPWilbur_66, Ranunculus_59, RazzB_66, Ren19_62, RobinRose_52, Romm_52, Shukran_58, Spiderpig_50, Tempo_50, Wilca_50,

Summary by start number:

Start 19:

- Found in 24 of 65 (36.9%) of genes in pham
- Manual Annotations of this start: 21 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_43 (FB), Alatato_66 (FB), Anekin_90 (AY), BasketStar_90 (AY), BenchScraper_90 (AY), BruhMoment_50 (AP3), Crescenzo_91 (AY), DarwinJr_93 (AY), EvePickles_91 (AY), Faja_91 (AY), Globfish_90 (AY), Gorpy_88 (AY), Isolde_91 (AY), MUWow_92 (AY), Mapleville_83 (AY), MidnightRain_97 (AY), NewKitty_91 (AY), Nyilah_97 (AY), Persistence_85 (AY), Richie_93 (AY), Sakai_87 (AY), Seahorse_96 (AY), SpicyFrank_92 (AY), Zucker_90 (FN),

Start 20:

- Found in 21 of 65 (32.3%) of genes in pham
- Manual Annotations of this start: 16 of 51
- Called 95.2% of time when present

- Phage (with cluster) where this start called: Beagle_67 (AP2), BetaFish_68 (AP2), ChuckDuck_56 (FA), DogYard_66 (AP2), Forrestell_66 (AP2), Hive_63 (AP2), Kubulix_67 (AP2), MellowYellow_67 (AP2), Nikan_65 (AP2), NyleyClemson_65 (AP2), Odyssey395_67 (AP2), Ollypop_63 (AP2), PhuzzTulsa_64 (AP2), Pointis_64 (AP2), Popstraw_62 (AP2), Pureglobe5_66 (AP2), RIPWilbur_66 (AP2), Ranunculus_59 (AP), RazzB_66 (AP2), Ren19_62 (AP2),

Start 22:

- Found in 1 of 65 (1.5%) 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 4 of 65 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 51
- Called 75.0% of time when present
- Phage (with cluster) where this start called: AirForce1_76 (FL), BellaJr_88 (FN), Orkz_77 (FL),

Start 25:

- Found in 13 of 65 (20.0%) of genes in pham
- Manual Annotations of this start: 11 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BirdInFrench_50 (EG), CandC_49 (EG), Fregley_51 (EG), Kelcole_49 (EG), KillerQueen_51 (EG), Marcie_55 (EG), OneinaGillian_50 (EG), Pepe25_49 (EG), RobinRose_52 (EG), Romm_52 (EG), Spiderpig_50 (EG), Tempo_50 (EG), Wilca_50 (EG),

Start 26:

- Found in 2 of 65 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hirko_47 (FL), Music_49 (FL),

Start 28:

- Found in 1 of 65 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cassini_84 (FN),

Start 31:

- Found in 1 of 65 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shukran_58 (AY),

Summary by clusters:

There are 10 clusters represented in this pham: FA, AP2, AP3, EG, AP, FB, AY, FQ1, FL, FN,

Info for manual annotations of cluster AP:

- Start number 20 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP2:

- Start number 20 was manually annotated 14 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 19 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AY:

- Start number 19 was manually annotated 17 times for cluster AY.
- Start number 31 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster EG:

- Start number 25 was manually annotated 11 times for cluster EG.

Info for manual annotations of cluster FA:

- Start number 20 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FB:

- Start number 19 was manually annotated 2 times for cluster FB.

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.

Info for manual annotations of cluster FN:

- Start number 19 was manually annotated 1 time for cluster FN.

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: 19

Candidate Starts for Alatato_43:

(11, 27651), (Start: 19 @27741 has 21 MA's), (45, 27906), (47, 27918), (48, 27921),

Gene: Alatato_66 Start: 36652, Stop: 36918, Start Num: 19

Candidate Starts for Alatato_66:

(Start: 19 @36652 has 21 MA's), (39, 36757), (54, 36859), (64, 36880),

Gene: Anekin_90 Start: 50152, Stop: 50415, Start Num: 19

Candidate Starts for Anekin_90:

(Start: 19 @50152 has 21 MA's), (42, 50278), (54, 50356), (64, 50377),

Gene: BasketStar_90 Start: 49766, Stop: 50035, Start Num: 19

Candidate Starts for BasketStar_90:

(Start: 19 @49766 has 21 MA's), (42, 49886), (46, 49931), (58, 49991), (67, 50021),

Gene: Beagle_67 Start: 42365, Stop: 42090, Start Num: 20

Candidate Starts for Beagle_67:

(Start: 20 @42365 has 16 MA's), (27, 42329), (36, 42272), (52, 42164), (56, 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: 19

Candidate Starts for BenchScraper_90:

(Start: 19 @48171 has 21 MA's), (67, 48411),

Gene: BetaFish_68 Start: 43321, Stop: 43055, Start Num: 20

Candidate Starts for BetaFish_68:

(Start: 20 @43321 has 16 MA's), (27, 43285), (36, 43228), (41, 43207), (52, 43120), (56, 43105),

Gene: BirdInFrench_50 Start: 35488, Stop: 35219, Start Num: 25

Candidate Starts for BirdInFrench_50:

(8, 35710), (12, 35599), (Start: 25 @35488 has 11 MA's), (39, 35410), (46, 35341), (49, 35329), (53, 35311), (57, 35290), (65, 35281), (67, 35257), (68, 35251), (69, 35230),

Gene: BruhMoment_50 Start: 39910, Stop: 39683, Start Num: 19

Candidate Starts for BruhMoment_50:

(18, 39913), (Start: 19 @39910 has 21 MA's), (30, 39862), (37, 39817), (38, 39814),

Gene: CandC_49 Start: 35861, Stop: 35583, Start Num: 25

Candidate Starts for CandC_49:

(12, 35972), (Start: 25 @35861 has 11 MA's), (46, 35708), (49, 35696), (63, 35648), (67, 35621), (68, 35615), (69, 35594),

Gene: Cassini_84 Start: 48452, Stop: 48691, Start Num: 28

Candidate Starts for Cassini_84:

(16, 48389), (17, 48398), (28, 48452), (29, 48461),

Gene: ChuckDuck_56 Start: 35927, Stop: 36187, Start Num: 20

Candidate Starts for ChuckDuck_56:

(7, 35687), (11, 35813), (Start: 20 @35927 has 16 MA's), (34, 35990), (40, 36023), (47, 36098), (48, 36101),

Gene: Crescenzo_91 Start: 51175, Stop: 51429, Start Num: 19

Candidate Starts for Crescenzo_91:

(Start: 19 @51175 has 21 MA's), (45, 51340), (67, 51415),

Gene: DarwinJr_93 Start: 51289, Stop: 51558, Start Num: 19

Candidate Starts for DarwinJr_93:

(Start: 19 @51289 has 21 MA's), (42, 51409), (46, 51454), (58, 51514), (67, 51544),

Gene: DogYard_66 Start: 42560, Stop: 42288, Start Num: 20

Candidate Starts for DogYard_66:

(Start: 20 @42560 has 16 MA's), (27, 42524), (41, 42446),

Gene: EvePickles_91 Start: 50887, Stop: 51183, Start Num: 19

Candidate Starts for EvePickles_91:

(Start: 19 @50887 has 21 MA's), (21, 50908), (Start: 23 @50914 has 1 MA's), (50, 51079), (51, 51085), (55, 51109),

Gene: Faja_91 Start: 50148, Stop: 50402, Start Num: 19

Candidate Starts for Faja_91:

(Start: 19 @50148 has 21 MA's), (35, 50187), (50, 50298), (51, 50304), (55, 50328),

Gene: Forrestell_66 Start: 41892, Stop: 41626, Start Num: 20

Candidate Starts for Forrestell_66:

(Start: 20 @41892 has 16 MA's), (27, 41856), (36, 41799), (41, 41778), (59, 41676), (61, 41673), (67, 41640),

Gene: Fregley_51 Start: 36422, Stop: 36144, Start Num: 25

Candidate Starts for Fregley_51:

(12, 36533), (Start: 25 @36422 has 11 MA's), (46, 36269), (49, 36257), (60, 36215), (63, 36209), (67, 36182), (68, 36176), (69, 36155),

Gene: Globfish_90 Start: 48891, Stop: 49145, Start Num: 19

Candidate Starts for Globfish_90:

(Start: 19 @48891 has 21 MA's), (50, 49041), (51, 49047), (55, 49071),

Gene: Gorpy_88 Start: 50899, Stop: 51153, Start Num: 19

Candidate Starts for Gorpy_88:

(Start: 19 @50899 has 21 MA's), (45, 51064), (67, 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: 20

Candidate Starts for Hive_63:

(Start: 20 @42585 has 16 MA's), (27, 42549), (36, 42492), (52, 42384), (56, 42369),

Gene: Isolde_91 Start: 50741, Stop: 51010, Start Num: 19

Candidate Starts for Isolde_91:

(Start: 19 @50741 has 21 MA's), (42, 50861), (46, 50906), (58, 50966), (67, 50996),

Gene: Kelcole_49 Start: 36313, Stop: 36035, Start Num: 25

Candidate Starts for Kelcole_49:

(Start: 25 @36313 has 11 MA's), (46, 36160), (49, 36148), (60, 36106), (63, 36100), (67, 36073), (68, 36067), (69, 36046),

Gene: KillerQueen_51 Start: 36305, Stop: 36027, Start Num: 25

Candidate Starts for KillerQueen_51:

(12, 36416), (Start: 25 @36305 has 11 MA's), (46, 36152), (49, 36140), (63, 36092), (67, 36065), (68, 36059), (69, 36038),

Gene: Kubulix_67 Start: 42478, Stop: 42203, Start Num: 20

Candidate Starts for Kubulix_67:

(Start: 20 @42478 has 16 MA's), (27, 42442), (36, 42385), (52, 42277), (56, 42262),

Gene: MUWow_92 Start: 50937, Stop: 51179, Start Num: 19

Candidate Starts for MUWow_92:

(Start: 19 @50937 has 21 MA's), (33, 50973), (55, 51117), (65, 51141),

Gene: Mapleville_83 Start: 48385, Stop: 48639, Start Num: 19

Candidate Starts for Mapleville_83:

(Start: 19 @48385 has 21 MA's), (45, 48550), (67, 48625),

Gene: Marcie_55 Start: 36924, Stop: 36652, Start Num: 25

Candidate Starts for Marcie_55:

(5, 37209), (6, 37194), (8, 37146), (12, 37035), (Start: 25 @36924 has 11 MA's), (32, 36894), (39, 36846), (46, 36777), (49, 36765), (63, 36717), (67, 36690), (68, 36684), (69, 36663),

Gene: MellowYellow_67 Start: 42565, Stop: 42293, Start Num: 20

Candidate Starts for MellowYellow_67:

(Start: 20 @42565 has 16 MA's), (27, 42529), (36, 42472), (52, 42364), (56, 42349),

Gene: Merpity_45 Start: 28400, Stop: 28615, Start Num: 22

Candidate Starts for Merpity_45:

(Start: 20 @28382 has 16 MA's), (22, 28400), (27, 28418),

Gene: MidnightRain_97 Start: 51392, Stop: 51628, Start Num: 19

Candidate Starts for MidnightRain_97:

(Start: 19 @51392 has 21 MA's), (33, 51431), (47, 51536), (48, 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: 19

Candidate Starts for NewKitty_91:

(Start: 19 @50380 has 21 MA's), (33, 50416), (55, 50560), (65, 50584),

Gene: Nikan_65 Start: 42436, Stop: 42206, Start Num: 20

Candidate Starts for Nikan_65:

(Start: 20 @42436 has 16 MA's), (43, 42328),

Gene: Nyilah_97 Start: 49853, Stop: 50107, Start Num: 19

Candidate Starts for Nyilah_97:

(Start: 19 @49853 has 21 MA's), (45, 50018), (67, 50093),

Gene: NyleyClemson_65 Start: 42180, Stop: 41908, Start Num: 20

Candidate Starts for NyleyClemson_65:

(Start: 20 @42180 has 16 MA's), (27, 42144), (36, 42087), (52, 41979), (56, 41964),

Gene: Odyssey395_67 Start: 42602, Stop: 42327, Start Num: 20

Candidate Starts for Odyssey395_67:

(Start: 20 @42602 has 16 MA's), (27, 42566), (52, 42401), (56, 42386),

Gene: Ollypop_63 Start: 43106, Stop: 42852, Start Num: 20

Candidate Starts for Ollypop_63:

(Start: 20 @43106 has 16 MA's), (27, 43070), (36, 43028), (52, 42923), (56, 42908),

Gene: OneinaGillian_50 Start: 35958, Stop: 35680, Start Num: 25

Candidate Starts for OneinaGillian_50:

(Start: 25 @35958 has 11 MA's), (46, 35805), (49, 35793), (60, 35751), (63, 35745), (67, 35718), (69, 35691),

Gene: Orkz_77 Start: 42490, Stop: 42714, Start Num: 23

Candidate Starts for Orkz_77:

(Start: 23 @42490 has 1 MA's), (55, 42685),

Gene: Pepe25_49 Start: 35500, Stop: 35231, Start Num: 25

Candidate Starts for Pepe25_49:

(4, 35794), (8, 35722), (12, 35611), (Start: 25 @35500 has 11 MA's), (42, 35398), (46, 35353), (49, 35341), (53, 35323), (57, 35302), (65, 35293), (67, 35269), (68, 35263), (69, 35242),

Gene: Persistence_85 Start: 47551, Stop: 47787, Start Num: 19

Candidate Starts for Persistence_85:

(Start: 19 @47551 has 21 MA's), (58, 47743), (65, 47749), (66, 47764),

Gene: PhuzzTulsa_64 Start: 42826, Stop: 42554, Start Num: 20

Candidate Starts for PhuzzTulsa_64:

(Start: 20 @42826 has 16 MA's), (27, 42790), (36, 42733), (52, 42625), (56, 42610),

Gene: Pointis_64 Start: 42405, Stop: 42130, Start Num: 20

Candidate Starts for Pointis_64:

(Start: 20 @42405 has 16 MA's), (27, 42369), (36, 42312), (52, 42204), (56, 42189),

Gene: Popstraw_62 Start: 42319, Stop: 42047, Start Num: 20

Candidate Starts for Popstraw_62:

(Start: 20 @42319 has 16 MA's), (27, 42283), (41, 42205),

Gene: Pureglobe5_66 Start: 42849, Stop: 42574, Start Num: 20

Candidate Starts for Pureglobe5_66:

(Start: 20 @42849 has 16 MA's), (27, 42813), (41, 42735), (52, 42648), (56, 42633),

Gene: RIPWilbur_66 Start: 42443, Stop: 42171, Start Num: 20

Candidate Starts for RIPWilbur_66:

(Start: 20 @42443 has 16 MA's), (27, 42407), (36, 42350), (52, 42242), (56, 42227),

Gene: Ranunculus_59 Start: 44856, Stop: 44584, Start Num: 20

Candidate Starts for Ranunculus_59:

(9, 45054), (Start: 20 @44856 has 16 MA's), (27, 44820), (36, 44763), (41, 44742),

Gene: RazzB_66 Start: 42311, Stop: 42039, Start Num: 20

Candidate Starts for RazzB_66:

(Start: 20 @42311 has 16 MA's), (27, 42275), (36, 42218), (52, 42110), (56, 42095),

Gene: Ren19_62 Start: 42043, Stop: 41816, Start Num: 20

Candidate Starts for Ren19_62:

(13, 42118), (14, 42091), (Start: 20 @42043 has 16 MA's), (43, 41935),

Gene: Richie_93 Start: 50743, Stop: 50997, Start Num: 19

Candidate Starts for Richie_93:

(Start: 19 @50743 has 21 MA's), (45, 50908), (67, 50983),

Gene: RobinRose_52 Start: 36467, Stop: 36189, Start Num: 25

Candidate Starts for RobinRose_52:

(12, 36578), (Start: 25 @36467 has 11 MA's), (46, 36314), (49, 36302), (63, 36254), (67, 36227), (68, 36221), (69, 36200),

Gene: Romm_52 Start: 36467, Stop: 36189, Start Num: 25

Candidate Starts for Romm_52:

(12, 36578), (Start: 25 @36467 has 11 MA's), (46, 36314), (49, 36302), (63, 36254), (67, 36227), (68, 36221), (69, 36200),

Gene: Sakai_87 Start: 49610, Stop: 49864, Start Num: 19

Candidate Starts for Sakai_87:

(Start: 19 @49610 has 21 MA's), (45, 49775), (67, 49850),

Gene: Seahorse_96 Start: 54256, Stop: 54510, Start Num: 19

Candidate Starts for Seahorse_96:

(Start: 19 @54256 has 21 MA's), (45, 54421), (67, 54496),

Gene: Shukran_58 Start: 32719, Stop: 32940, Start Num: 31

Candidate Starts for Shukran_58:

(10, 32485), (15, 32641), (24, 32689), (Start: 31 @32719 has 1 MA's), (48, 32851),

Gene: SpicyFrank_92 Start: 49662, Stop: 49916, Start Num: 19

Candidate Starts for SpicyFrank_92:

(Start: 19 @49662 has 21 MA's), (50, 49812), (51, 49818), (55, 49842),

Gene: Spiderpig_50 Start: 35477, Stop: 35208, Start Num: 25

Candidate Starts for Spiderpig_50:

(8, 35699), (12, 35588), (Start: 25 @35477 has 11 MA's), (39, 35399), (46, 35330), (49, 35318), (53, 35300), (57, 35279), (65, 35270), (67, 35246), (68, 35240), (69, 35219),

Gene: Tempo_50 Start: 36346, Stop: 36068, Start Num: 25

Candidate Starts for Tempo_50:

(12, 36457), (Start: 25 @36346 has 11 MA's), (46, 36193), (49, 36181), (60, 36139), (63, 36133), (67, 36106), (68, 36100), (69, 36079),

Gene: Wilca_50 Start: 35488, Stop: 35219, Start Num: 25

Candidate Starts for Wilca_50:

(8, 35710), (12, 35599), (Start: 25 @35488 has 11 MA's), (39, 35410), (46, 35341), (49, 35329), (53, 35311), (57, 35290), (65, 35281), (67, 35257), (68, 35251), (69, 35230),

Gene: Zucker_90 Start: 50853, Stop: 51107, Start Num: 19

Candidate Starts for Zucker_90:

(Start: 19 @50853 has 21 MA's),