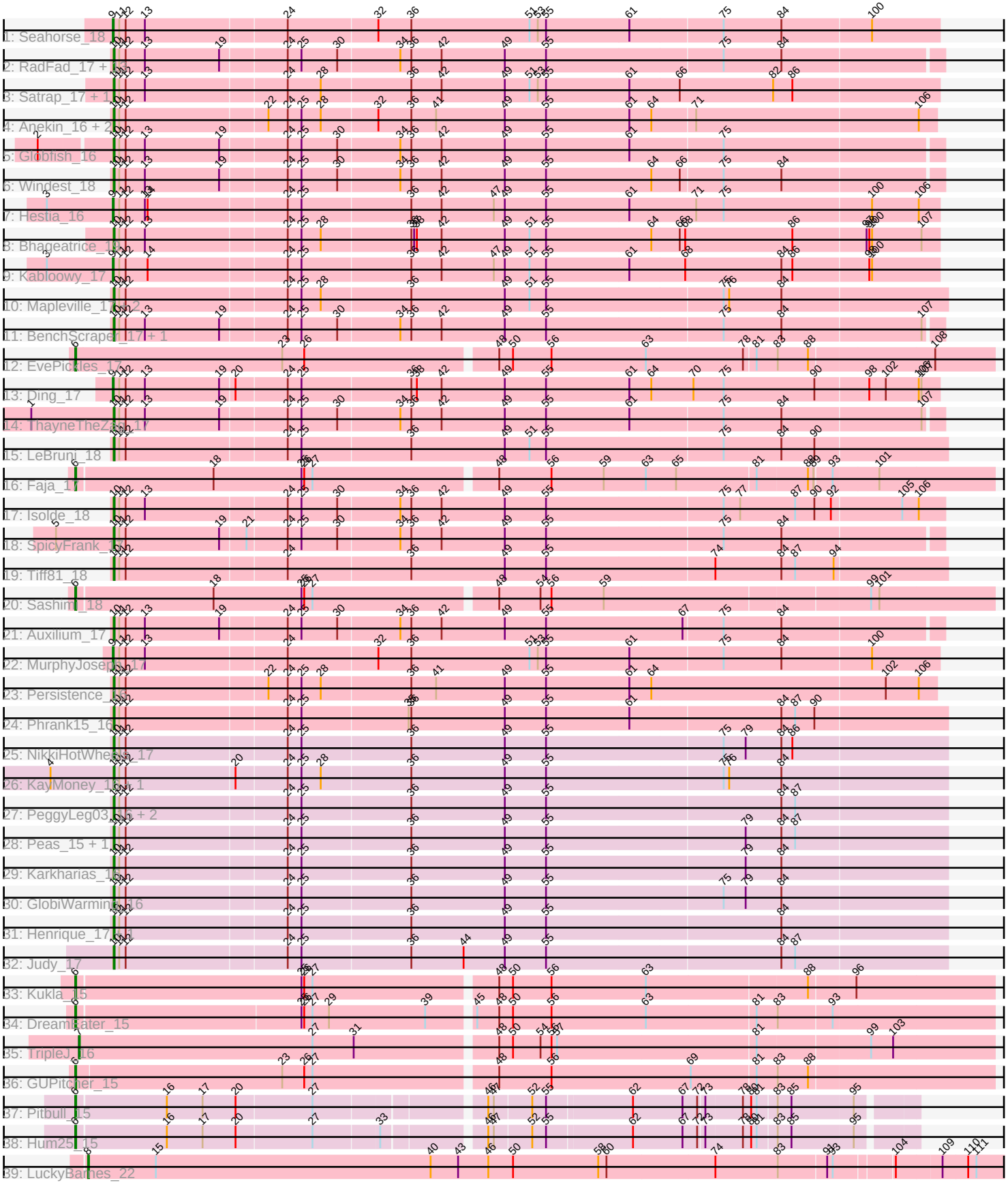
Pham 345746


1: Seahorse_18
2: RadFad_17 + 1
3: Satrap_17 + 1
4: Anekin_16 + 2
5: Globfish_16
6: Windest_18
7: Hestia_16
8: Bhageatrice_18
9: Kabloowy_17
10: Mapleville_17 + 2
11: BenchScraper_17 + 1
12: EvePickles_17
13: Ding_17
14: ThayneTheZane_17
15: LeBrun_18
16: Faja_17
17: Isolde_18
18: SpicyFrank_17
19: Tiff81_18
20: Sashimi_18
21: Auxilium_17
22: MurphyJoseph_17
23: Persistence_17
24: Phrank15_16
25: NikkiHotWheels_17
26: KayMoney_16 + 1
27: PeggyLeg03_16 + 2
28: Peas_15 + 1
29: Karkharias_16
30: GlobiWarming_16
31: Henrique_17 + 1
32: Judy_17
33: Kukla_15
34: DreamEater_15
35: TripleJ_16
36: GUPitcher_15
37: Pitbull_15
38: Hum25_15
39: LuckyBarnes_22

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 345746 Report

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

Pham number 345746 has 63 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Seahorse_18
• Track 2 : RadFad_17, AdaS_17, MaterMagnus_17, CookieBear_17, MUWow_16, Hillester_17, Lasker_18, Raphaella_17, Sakai_17, JellyBread_17, Sporco_18, MidnightRain_17, BlueShadow_17, YoungHarleezy_17
• Track 3 : Satrap_17, Shukran_18
• Track 4 : Anekin_16, DarwinJr_20, Crescenzo_17
• Track 5 : Globfish_16
• Track 6 : Windest_18
• Track 7 : Hestia_16
• Track 8 : Bhageatrice_19
• Track 9 : Kabloowy_17
• Track 10 : Mapleville_17, BillyTP_17, Lawnathon_17
• Track 11 : BenchScraper_17, Richie_17
• Track 12 : EvePickles_17
• Track 13 : Ding_17
• Track 14 : ThayneTheZag_17
• Track 15 : LeBruni_18
• Track 16 : Faja_17
• Track 17 : Isolde_18
• Track 18 : SpicyFrank_17
• Track 19 : Tiff81_18
• Track 20 : Sashimi_18
• Track 21 : Auxilium_17
• Track 22 : MurphyJoseph_17
• Track 23 : Persistence_16
• Track 24 : Phrank15_16
• Track 25 : NikkiHotWheels_17
• Track 26 : KayMoney_16, ChuckDuck_16
• Track 27 : PeggyLeg03_16, Constance_16, NidoQ_17
• Track 28 : Peas_15, Eileen_16
• Track 29 : Karkharias_16
• Track 30 : GlobiWarming_16
• Track 31 : Henrique_17, Bridgette_16
• Track 32 : Judy_17
• Track 33 : Kukla_15
• Track 34 : DreamEater_15
• Track 35 : TripleJ_16

• Track 36 : GUPitcher_15
• Track 37 : Pitbull_15
• Track 38 : Hum25_15
• Track 39 : LuckyBarnes_22

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

The start number called the most often in the published annotations is 10, it was called in 48 of the 63 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdaS_17, Anekin_16, Auxilium_17, BenchScraper_17, Bhageatrice_19, BillyTP_17, BlueShadow_17, Bridgette_16, ChuckDuck_16, Constance_16, CookieBear_17, Crescenzo_17, DarwinJr_20, Eileen_16, Globfish_16, GlobiWarming_16, Henrique_17, Hillester_17, Isolde_18, JellyBread_17, Judy_17, Karkharias_16, KayMoney_16, Lasker_18, Lawnathon_17, LeBruni_18, MUWow_16, Mapleville_17, MaterMagnus_17, MidnightRain_17, NidoQ_17, NikkiHotWheels_17, Peas_15, PeggyLeg03_16, Persistence_16, Phrank15_16, RadFad_17, Raphaella_17, Richie_17, Sakai_17, Satrap_17, Shukran_18, SpicyFrank_17, Sporco_18, ThayneTheZag_17, Tiff81_18, Windest_18, YoungHarleezy_17,

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

Genes that do not have the "Most Annotated" start:
• Ding_17, DreamEater_15, EvePickles_17, Faja_17, GUPitcher_15, Hestia_16, Hum25_15, Kabloowy_17, Kukla_15, LuckyBarnes_22, MurphyJoseph_17, Pitbull_15, Sashimi_18, Seahorse_18, TripleJ_16,

Summary by start number:

Start 6:
• Found in 8 of 63 (12.7%) of genes in pham
• Manual Annotations of this start: 8 of 63
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DreamEater_15 (FJ), EvePickles_17 (AY), Faja_17 (AY), GUPitcher_15 (FJ), Hum25_15 (FQ1), Kukla_15 (FJ), Pitbull_15 (FQ1), Sashimi_18 (AY),

Start 7:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 63
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TripleJ_16 (FJ),

Start 8:
• Found in 1 of 63 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 63
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LuckyBarnes_22 (singleton),

Start 9:
• Found in 5 of 63 (7.9%) of genes in pham
• Manual Annotations of this start: 5 of 63
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ding_17 (AY), Hestia_16 (AY), Kabloowy_17 (AY), MurphyJoseph_17 (AY), Seahorse_18 (AY),

Start 10:
• Found in 48 of 63 (76.2%) of genes in pham
• Manual Annotations of this start: 48 of 63
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_17 (AY), Anekin_16 (AY), Auxilium_17 (AY), BenchScraper_17 (AY), Bhageatrice_19 (AY), BillyTP_17 (AY), BlueShadow_17 (AY), Bridgette_16 (FA), ChuckDuck_16 (FA), Constance_16 (FA), CookieBear_17 (AY), Crescenzo_17 (AY), DarwinJr_20 (AY), Eileen_16 (FA), Globfish_16 (AY), GlobiWarming_16 (FA), Henrique_17 (FA), Hillester_17 (AY), Isolde_18 (AY), JellyBread_17 (AY), Judy_17 (FA), Karkharias_16 (FA), KayMoney_16 (FA), Lasker_18 (AY), Lawnathon_17 (AY), LeBruni_18 (AY), MUWow_16 (AY), Mapleville_17 (AY), MaterMagnus_17 (AY), MidnightRain_17 (AY), NidoQ_17 (FA), NikkiHotWheels_17 (FA), Peas_15 (FA), PeggyLeg03_16 (FA), Persistence_16 (AY), Phrank15_16 (AY), RadFad_17 (AY), Raphaella_17 (AY), Richie_17 (AY), Sakai_17 (AY), Satrap_17 (AY), Shukran_18 (AY), SpicyFrank_17 (AY), Sporco_18 (AY), ThayneTheZag_17 (AY), Tiff81_18 (AY), Windest_18 (AY), YoungHarleezy_17 (AY),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FA, singleton, FQ1, FJ,

Info for manual annotations of cluster AY:
•Start number 6 was manually annotated 3 times for cluster AY.
•Start number 9 was manually annotated 5 times for cluster AY.
•Start number 10 was manually annotated 35 times for cluster AY.

Info for manual annotations of cluster FA:
•Start number 10 was manually annotated 13 times for cluster FA.

Info for manual annotations of cluster FJ:
•Start number 6 was manually annotated 3 times for cluster FJ.
•Start number 7 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FQ1:
•Start number 6 was manually annotated 2 times for cluster FQ1.

Gene Information:

Gene: AdaS_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for AdaS_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Anekin_16 Start: 9771, Stop: 10651, Start Num: 10
Candidate Starts for Anekin_16:
(Start: 10 @9771 has 48 MA's), (11, 9777), (12, 9783), (22, 9933), (24, 9954), (25, 9969), (28, 9990), (32, 10050), (36, 10086), (41, 10113), (49, 10188), (55, 10233), (61, 10323), (64, 10347), (71, 10392), (106, 10632),

Gene: Auxilium_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for Auxilium_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (67, 10260), (75, 10302), (84, 10365),

Gene: BenchScraper_17 Start: 9666, Stop: 10549, Start Num: 10
Candidate Starts for BenchScraper_17:
(Start: 10 @9666 has 48 MA's), (11, 9672), (12, 9678), (13, 9699), (19, 9780), (24, 9849), (25, 9864), (30, 9903), (34, 9969), (36, 9981), (42, 10014), (49, 10083), (55, 10128), (75, 10317), (84, 10380), (107, 10530),

Gene: Bhageatrice_19 Start: 10868, Stop: 11754, Start Num: 10
Candidate Starts for Bhageatrice_19:
(Start: 10 @10868 has 48 MA's), (11, 10874), (12, 10880), (13, 10901), (24, 11051), (25, 11066), (28, 11087), (36, 11183), (37, 11186), (38, 11189), (42, 11216), (49, 11285), (51, 11312), (55, 11330), (64, 11444), (66, 11474), (68, 11480), (86, 11597), (97, 11675), (98, 11678), (100, 11681), (107, 11735),

Gene: BillyTP_17 Start: 9654, Stop: 10546, Start Num: 10
Candidate Starts for BillyTP_17:
(Start: 10 @9654 has 48 MA's), (11, 9660), (12, 9666), (24, 9837), (25, 9852), (28, 9873), (36, 9969), (49, 10071), (51, 10098), (55, 10116), (75, 10305), (76, 10311), (84, 10368),

Gene: BlueShadow_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for BlueShadow_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Bridgette_16 Start: 9817, Stop: 10709, Start Num: 10
Candidate Starts for Bridgette_16:
(Start: 10 @9817 has 48 MA's), (11, 9823), (12, 9829), (24, 10000), (25, 10015), (36, 10132), (49, 10234), (55, 10279), (84, 10531),

Gene: ChuckDuck_16 Start: 9772, Stop: 10664, Start Num: 10
Candidate Starts for ChuckDuck_16:
(4, 9703), (Start: 10 @9772 has 48 MA's), (11, 9778), (12, 9784), (20, 9901), (24, 9955), (25, 9970), (28, 9991), (36, 10087), (49, 10189), (55, 10234), (75, 10423), (76, 10429), (84, 10486),

Gene: Constance_16 Start: 9820, Stop: 10712, Start Num: 10
Candidate Starts for Constance_16:
(Start: 10 @9820 has 48 MA's), (11, 9826), (12, 9832), (24, 10003), (25, 10018), (36, 10135), (49, 10237), (55, 10282), (84, 10534), (87, 10549),

Gene: CookieBear_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for CookieBear_17:

(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Crescenzo_17 Start: 9699, Stop: 10579, Start Num: 10
Candidate Starts for Crescenzo_17:
(Start: 10 @9699 has 48 MA's), (11, 9705), (12, 9711), (22, 9861), (24, 9882), (25, 9897), (28, 9918), (32, 9978), (36, 10014), (41, 10041), (49, 10116), (55, 10161), (61, 10251), (64, 10275), (71, 10320), (106, 10560),

Gene: DarwinJr_20 Start: 11003, Stop: 11883, Start Num: 10
Candidate Starts for DarwinJr_20:
(Start: 10 @11003 has 48 MA's), (11, 11009), (12, 11015), (22, 11165), (24, 11186), (25, 11201), (28, 11222), (32, 11282), (36, 11318), (41, 11345), (49, 11420), (55, 11465), (61, 11555), (64, 11579), (71, 11624), (106, 11864),

Gene: Ding_17 Start: 9646, Stop: 10532, Start Num: 9
Candidate Starts for Ding_17:
(Start: 9 @9646 has 5 MA's), (11, 9652), (12, 9658), (13, 9679), (19, 9760), (20, 9775), (24, 9829), (25, 9844), (36, 9961), (38, 9967), (42, 9994), (49, 10063), (55, 10108), (61, 10198), (64, 10222), (70, 10267), (75, 10300), (90, 10399), (98, 10456), (102, 10474), (106, 10510), (107, 10513),

Gene: DreamEater_15 Start: 9857, Stop: 10827, Start Num: 6
Candidate Starts for DreamEater_15:
(Start: 6 @9857 has 8 MA's), (25, 10097), (26, 10100), (27, 10109), (29, 10127), (39, 10232), (45, 10277), (48, 10301), (50, 10316), (56, 10358), (63, 10460), (81, 10577), (83, 10598), (93, 10655),

Gene: Eileen_16 Start: 9781, Stop: 10673, Start Num: 10
Candidate Starts for Eileen_16:
(Start: 10 @9781 has 48 MA's), (11, 9787), (12, 9793), (24, 9964), (25, 9979), (36, 10096), (49, 10198), (55, 10243), (79, 10456), (84, 10495), (87, 10510),

Gene: EvePickles_17 Start: 9791, Stop: 10767, Start Num: 6
Candidate Starts for EvePickles_17:
(Start: 6 @9791 has 8 MA's), (23, 10016), (26, 10040), (48, 10241), (50, 10256), (56, 10298), (63, 10400), (78, 10505), (81, 10517), (83, 10538), (88, 10571), (108, 10703),

Gene: Faja_17 Start: 9736, Stop: 10709, Start Num: 6
Candidate Starts for Faja_17:
(Start: 6 @9736 has 8 MA's), (18, 9883), (25, 9979), (26, 9982), (27, 9991), (48, 10183), (56, 10240), (59, 10297), (63, 10342), (65, 10375), (81, 10459), (88, 10513), (89, 10519), (93, 10537), (101, 10585),

Gene: GUPitcher_15 Start: 9226, Stop: 10199, Start Num: 6
Candidate Starts for GUPitcher_15:
(Start: 6 @9226 has 8 MA's), (23, 9448), (26, 9472), (27, 9481), (48, 9673), (56, 9730), (69, 9880), (81, 9949), (83, 9970), (88, 10003),

Gene: Globfish_16 Start: 9725, Stop: 10608, Start Num: 10
Candidate Starts for Globfish_16:
(2, 9650), (Start: 10 @9725 has 48 MA's), (11, 9731), (12, 9737), (13, 9758), (19, 9839), (24, 9908), (25, 9923), (30, 9962), (34, 10028), (36, 10040), (42, 10073), (49, 10142), (55, 10187), (61, 10277), (75, 10376),

Gene: GlobiWarming_16 Start: 9774, Stop: 10666, Start Num: 10

Candidate Starts for GlobiWarming_16:
(Start: 10 @9774 has 48 MA's), (11, 9780), (12, 9786), (24, 9957), (25, 9972), (36, 10089), (49, 10191), (55, 10236), (75, 10425), (79, 10449), (84, 10488),

Gene: Henrique_17 Start: 9778, Stop: 10670, Start Num: 10
Candidate Starts for Henrique_17:
(Start: 10 @9778 has 48 MA's), (11, 9784), (12, 9790), (24, 9961), (25, 9976), (36, 10093), (49, 10195), (55, 10240), (84, 10492),

Gene: Hestia_16 Start: 9769, Stop: 10655, Start Num: 9
Candidate Starts for Hestia_16:
(3, 9697), (Start: 9 @9769 has 5 MA's), (11, 9775), (12, 9781), (13, 9802), (14, 9805), (24, 9952), (25, 9967), (36, 10084), (42, 10117), (47, 10174), (49, 10186), (55, 10231), (61, 10321), (71, 10393), (75, 10423), (100, 10582), (106, 10633),

Gene: Hillester_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for Hillester_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Hum25_15 Start: 8518, Stop: 9374, Start Num: 6
Candidate Starts for Hum25_15:
(Start: 6 @8518 has 8 MA's), (16, 8614), (17, 8653), (20, 8689), (27, 8770), (33, 8839), (46, 8938), (47, 8944), (52, 8983), (55, 8998), (62, 9088), (67, 9142), (72, 9157), (73, 9163), (78, 9202), (80, 9211), (81, 9217), (83, 9235), (85, 9250), (95, 9316),

Gene: Isolde_18 Start: 9725, Stop: 10614, Start Num: 10
Candidate Starts for Isolde_18:
(Start: 10 @9725 has 48 MA's), (11, 9731), (12, 9737), (13, 9758), (24, 9908), (25, 9923), (30, 9962), (34, 10028), (36, 10040), (42, 10073), (49, 10142), (55, 10187), (75, 10376), (77, 10394), (87, 10454), (90, 10475), (92, 10493), (105, 10568), (106, 10586),

Gene: JellyBread_17 Start: 9644, Stop: 10527, Start Num: 10
Candidate Starts for JellyBread_17:
(Start: 10 @9644 has 48 MA's), (11, 9650), (12, 9656), (13, 9677), (19, 9758), (24, 9827), (25, 9842), (30, 9881), (34, 9947), (36, 9959), (42, 9992), (49, 10061), (55, 10106), (75, 10295), (84, 10358),

Gene: Judy_17 Start: 10091, Stop: 10983, Start Num: 10
Candidate Starts for Judy_17:
(Start: 10 @10091 has 48 MA's), (11, 10097), (12, 10103), (24, 10274), (25, 10289), (36, 10406), (44, 10463), (49, 10508), (55, 10553), (84, 10805), (87, 10820),

Gene: Kabloowy_17 Start: 9746, Stop: 10632, Start Num: 9
Candidate Starts for Kabloowy_17:
(3, 9674), (Start: 9 @9746 has 5 MA's), (11, 9752), (12, 9758), (14, 9782), (24, 9929), (25, 9944), (36, 10061), (42, 10094), (47, 10151), (49, 10163), (51, 10190), (55, 10208), (61, 10298), (68, 10358), (84, 10463), (86, 10475), (98, 10556), (100, 10559),

Gene: Karkharias_16 Start: 9778, Stop: 10670, Start Num: 10
Candidate Starts for Karkharias_16:
(Start: 10 @9778 has 48 MA's), (11, 9784), (12, 9790), (24, 9961), (25, 9976), (36, 10093), (49, 10195), (55, 10240), (79, 10453), (84, 10492),

Gene: KayMoney_16 Start: 9774, Stop: 10666, Start Num: 10
Candidate Starts for KayMoney_16:
(4, 9705), (Start: 10 @9774 has 48 MA's), (11, 9780), (12, 9786), (20, 9903), (24, 9957), (25, 9972), (28, 9993), (36, 10089), (49, 10191), (55, 10236), (75, 10425), (76, 10431), (84, 10488),

Gene: Kukla_15 Start: 9254, Stop: 10227, Start Num: 6
Candidate Starts for Kukla_15:
(Start: 6 @9254 has 8 MA's), (25, 9497), (26, 9500), (27, 9509), (48, 9701), (50, 9716), (56, 9758), (63, 9860), (88, 10031), (96, 10079),

Gene: Lasker_18 Start: 9659, Stop: 10542, Start Num: 10
Candidate Starts for Lasker_18:
(Start: 10 @9659 has 48 MA's), (11, 9665), (12, 9671), (13, 9692), (19, 9773), (24, 9842), (25, 9857), (30, 9896), (34, 9962), (36, 9974), (42, 10007), (49, 10076), (55, 10121), (75, 10310), (84, 10373),

Gene: Lawnathon_17 Start: 9799, Stop: 10691, Start Num: 10
Candidate Starts for Lawnathon_17:
(Start: 10 @9799 has 48 MA's), (11, 9805), (12, 9811), (24, 9982), (25, 9997), (28, 10018), (36, 10114), (49, 10216), (51, 10243), (55, 10261), (75, 10450), (76, 10456), (84, 10513),

Gene: LeBruni_18 Start: 9673, Stop: 10565, Start Num: 10
Candidate Starts for LeBruni_18:
(Start: 10 @9673 has 48 MA's), (11, 9679), (12, 9685), (24, 9856), (25, 9871), (36, 9988), (49, 10090), (51, 10117), (55, 10135), (75, 10324), (84, 10387), (90, 10423),

Gene: LuckyBarnes_22 Start: 12564, Stop: 13543, Start Num: 8
Candidate Starts for LuckyBarnes_22:
(Start: 8 @12564 has 1 MA's), (15, 12636), (40, 12936), (43, 12966), (46, 12999), (50, 13026), (58, 13119), (60, 13128), (74, 13245), (83, 13311), (91, 13362), (93, 13368), (104, 13428), (109, 13476), (110, 13503), (111, 13512),

Gene: MUWow_16 Start: 9744, Stop: 10627, Start Num: 10
Candidate Starts for MUWow_16:
(Start: 10 @9744 has 48 MA's), (11, 9750), (12, 9756), (13, 9777), (19, 9858), (24, 9927), (25, 9942), (30, 9981), (34, 10047), (36, 10059), (42, 10092), (49, 10161), (55, 10206), (75, 10395), (84, 10458),

Gene: Mapleville_17 Start: 9869, Stop: 10761, Start Num: 10
Candidate Starts for Mapleville_17:
(Start: 10 @9869 has 48 MA's), (11, 9875), (12, 9881), (24, 10052), (25, 10067), (28, 10088), (36, 10184), (49, 10286), (51, 10313), (55, 10331), (75, 10520), (76, 10526), (84, 10583),

Gene: MaterMagnus_17 Start: 9652, Stop: 10535, Start Num: 10
Candidate Starts for MaterMagnus_17:
(Start: 10 @9652 has 48 MA's), (11, 9658), (12, 9664), (13, 9685), (19, 9766), (24, 9835), (25, 9850), (30, 9889), (34, 9955), (36, 9967), (42, 10000), (49, 10069), (55, 10114), (75, 10303), (84, 10366),

Gene: MidnightRain_17 Start: 9650, Stop: 10533, Start Num: 10
Candidate Starts for MidnightRain_17:
(Start: 10 @9650 has 48 MA's), (11, 9656), (12, 9662), (13, 9683), (19, 9764), (24, 9833), (25, 9848), (30, 9887), (34, 9953), (36, 9965), (42, 9998), (49, 10067), (55, 10112), (75, 10301), (84, 10364),

Gene: MurphyJoseph_17 Start: 9664, Stop: 10547, Start Num: 9
Candidate Starts for MurphyJoseph_17:

(Start: 9 @9664 has 5 MA's), (11, 9670), (12, 9676), (13, 9697), (24, 9847), (32, 9943), (36, 9979), (51, 10108), (53, 10117), (55, 10126), (61, 10216), (75, 10315), (84, 10378), (100, 10474),

Gene: NidoQ_17 Start: 9837, Stop: 10729, Start Num: 10
Candidate Starts for NidoQ_17:
(Start: 10 @9837 has 48 MA's), (11, 9843), (12, 9849), (24, 10020), (25, 10035), (36, 10152), (49, 10254), (55, 10299), (84, 10551), (87, 10566),

Gene: NikkiHotWheels_17 Start: 9777, Stop: 10669, Start Num: 10
Candidate Starts for NikkiHotWheels_17:
(Start: 10 @9777 has 48 MA's), (11, 9783), (12, 9789), (24, 9960), (25, 9975), (36, 10092), (49, 10194), (55, 10239), (75, 10428), (79, 10452), (84, 10491), (86, 10503),

Gene: Peas_15 Start: 9781, Stop: 10673, Start Num: 10
Candidate Starts for Peas_15:
(Start: 10 @9781 has 48 MA's), (11, 9787), (12, 9793), (24, 9964), (25, 9979), (36, 10096), (49, 10198), (55, 10243), (79, 10456), (84, 10495), (87, 10510),

Gene: PeggyLeg03_16 Start: 9820, Stop: 10712, Start Num: 10
Candidate Starts for PeggyLeg03_16:
(Start: 10 @9820 has 48 MA's), (11, 9826), (12, 9832), (24, 10003), (25, 10018), (36, 10135), (49, 10237), (55, 10282), (84, 10534), (87, 10549),

Gene: Persistence_16 Start: 9723, Stop: 10606, Start Num: 10
Candidate Starts for Persistence_16:
(Start: 10 @9723 has 48 MA's), (11, 9729), (12, 9735), (22, 9885), (24, 9906), (25, 9921), (28, 9942), (36, 10038), (41, 10065), (49, 10140), (55, 10185), (61, 10275), (64, 10299), (102, 10551), (106, 10587),

Gene: Phrank15_16 Start: 9804, Stop: 10696, Start Num: 10
Candidate Starts for Phrank15_16:
(Start: 10 @9804 has 48 MA's), (11, 9810), (12, 9816), (24, 9987), (25, 10002), (35, 10116), (36, 10119), (49, 10221), (55, 10266), (61, 10356), (84, 10518), (87, 10533), (90, 10554),

Gene: Pitbull_15 Start: 8148, Stop: 9004, Start Num: 6
Candidate Starts for Pitbull_15:
(Start: 6 @8148 has 8 MA's), (16, 8244), (17, 8283), (20, 8319), (27, 8400), (46, 8568), (47, 8574), (52, 8613), (55, 8628), (62, 8718), (67, 8772), (72, 8787), (73, 8793), (78, 8832), (80, 8841), (81, 8847), (83, 8865), (85, 8880), (95, 8946),

Gene: RadFad_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for RadFad_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Raphaella_17 Start: 9651, Stop: 10534, Start Num: 10
Candidate Starts for Raphaella_17:
(Start: 10 @9651 has 48 MA's), (11, 9657), (12, 9663), (13, 9684), (19, 9765), (24, 9834), (25, 9849), (30, 9888), (34, 9954), (36, 9966), (42, 9999), (49, 10068), (55, 10113), (75, 10302), (84, 10365),

Gene: Richie_17 Start: 9666, Stop: 10549, Start Num: 10
Candidate Starts for Richie_17:

(Start: 10 @9666 has 48 MA's), (11, 9672), (12, 9678), (13, 9699), (19, 9780), (24, 9849), (25, 9864), (30, 9903), (34, 9969), (36, 9981), (42, 10014), (49, 10083), (55, 10128), (75, 10317), (84, 10380), (107, 10530),

Gene: Sakai_17 Start: 9660, Stop: 10543, Start Num: 10
Candidate Starts for Sakai_17:
(Start: 10 @9660 has 48 MA's), (11, 9666), (12, 9672), (13, 9693), (19, 9774), (24, 9843), (25, 9858), (30, 9897), (34, 9963), (36, 9975), (42, 10008), (49, 10077), (55, 10122), (75, 10311), (84, 10374),

Gene: Sashimi_18 Start: 9853, Stop: 10826, Start Num: 6
Candidate Starts for Sashimi_18:
(Start: 6 @9853 has 8 MA's), (18, 10000), (25, 10096), (26, 10099), (27, 10108), (48, 10300), (54, 10345), (56, 10357), (59, 10414), (99, 10693), (101, 10702),

Gene: Satrap_17 Start: 9612, Stop: 10498, Start Num: 10
Candidate Starts for Satrap_17:
(Start: 10 @9612 has 48 MA's), (11, 9618), (12, 9624), (13, 9645), (24, 9795), (28, 9831), (36, 9927), (42, 9960), (49, 10029), (51, 10056), (53, 10065), (55, 10074), (61, 10164), (66, 10218), (82, 10320), (86, 10341),

Gene: Seahorse_18 Start: 9917, Stop: 10800, Start Num: 9
Candidate Starts for Seahorse_18:
(Start: 9 @9917 has 5 MA's), (11, 9923), (12, 9929), (13, 9950), (24, 10100), (32, 10196), (36, 10232), (51, 10361), (53, 10370), (55, 10379), (61, 10469), (75, 10568), (84, 10631), (100, 10727),

Gene: Shukran_18 Start: 9612, Stop: 10498, Start Num: 10
Candidate Starts for Shukran_18:
(Start: 10 @9612 has 48 MA's), (11, 9618), (12, 9624), (13, 9645), (24, 9795), (28, 9831), (36, 9927), (42, 9960), (49, 10029), (51, 10056), (53, 10065), (55, 10074), (61, 10164), (66, 10218), (82, 10320), (86, 10341),

Gene: SpicyFrank_17 Start: 9728, Stop: 10611, Start Num: 10
Candidate Starts for SpicyFrank_17:
(5, 9665), (Start: 10 @9728 has 48 MA's), (11, 9734), (12, 9740), (19, 9842), (21, 9869), (24, 9911), (25, 9926), (30, 9965), (34, 10031), (36, 10043), (42, 10076), (49, 10145), (55, 10190), (75, 10379), (84, 10442),

Gene: Sporco_18 Start: 9708, Stop: 10591, Start Num: 10
Candidate Starts for Sporco_18:
(Start: 10 @9708 has 48 MA's), (11, 9714), (12, 9720), (13, 9741), (19, 9822), (24, 9891), (25, 9906), (30, 9945), (34, 10011), (36, 10023), (42, 10056), (49, 10125), (55, 10170), (75, 10359), (84, 10422),

Gene: ThayneTheZag_17 Start: 9726, Stop: 10609, Start Num: 10
Candidate Starts for ThayneTheZag_17:
(1, 9636), (Start: 10 @9726 has 48 MA's), (11, 9732), (12, 9738), (13, 9759), (19, 9840), (24, 9909), (25, 9924), (30, 9963), (34, 10029), (36, 10041), (42, 10074), (49, 10143), (55, 10188), (61, 10278), (75, 10377), (84, 10440), (107, 10590),

Gene: Tiff81_18 Start: 9875, Stop: 10767, Start Num: 10
Candidate Starts for Tiff81_18:
(Start: 10 @9875 has 48 MA's), (11, 9881), (12, 9887), (24, 10058), (36, 10190), (49, 10292), (55, 10337), (74, 10517), (84, 10589), (87, 10604), (94, 10646),

Gene: TripleJ_16 Start: 9801, Stop: 10774, Start Num: 7
Candidate Starts for TripleJ_16:
(Start: 7 @9801 has 1 MA's), (27, 10056), (31, 10101), (48, 10248), (50, 10263), (54, 10293), (56, 10305), (57, 10311), (81, 10524), (99, 10641), (103, 10665),

Gene: Windest_18 Start: 9708, Stop: 10591, Start Num: 10
Candidate Starts for Windest_18:
(Start: 10 @9708 has 48 MA's), (11, 9714), (12, 9720), (13, 9741), (19, 9822), (24, 9891), (25, 9906), (30, 9945), (34, 10011), (36, 10023), (42, 10056), (49, 10125), (55, 10170), (64, 10284), (66, 10314), (75, 10359), (84, 10422),

Gene: YoungHarleezy_17 Start: 9664, Stop: 10547, Start Num: 10
Candidate Starts for YoungHarleezy_17:
(Start: 10 @9664 has 48 MA's), (11, 9670), (12, 9676), (13, 9697), (19, 9778), (24, 9847), (25, 9862), (30, 9901), (34, 9967), (36, 9979), (42, 10012), (49, 10081), (55, 10126), (75, 10315), (84, 10378),