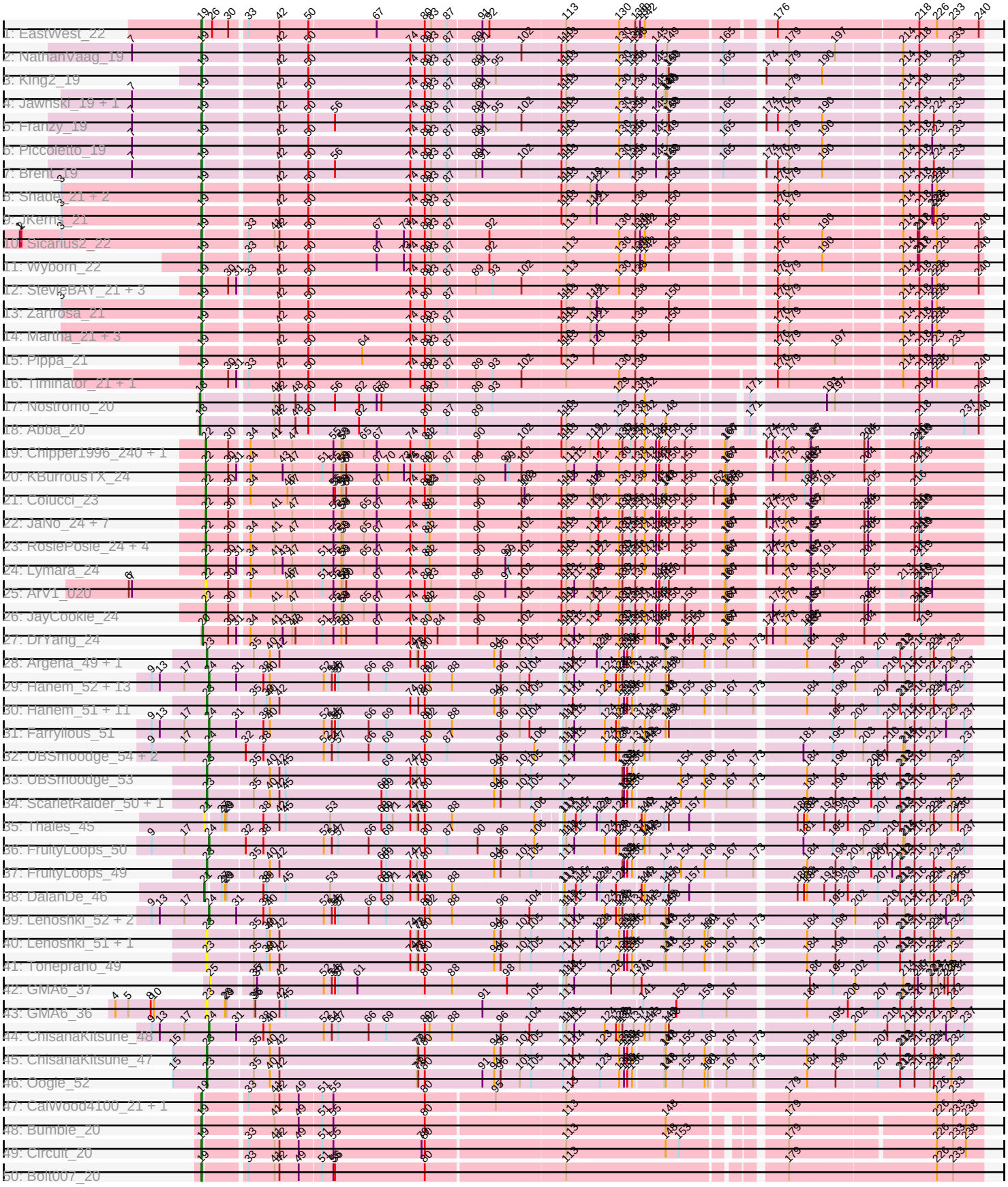
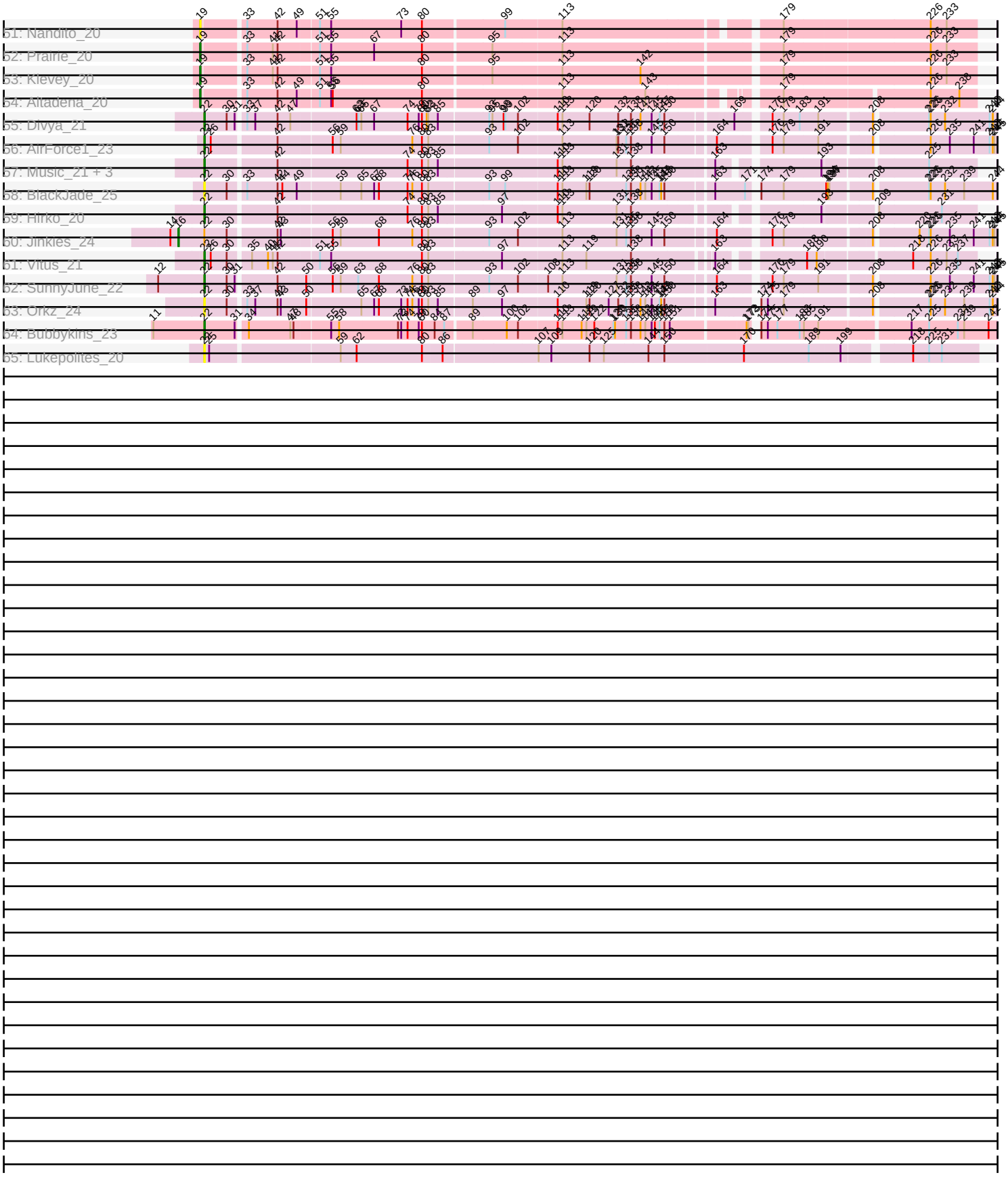
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1: EastWest_22
2: NathanVaag_19
3: King2_19
4: Jawnski_19 + 1
5: Franzy_19
6: Piccoletto_19
7: Brent_19
8: Shade_21 + 2
9: JKerns_21
10: Sicarius2_22
11: Wyborn_22
12: SteveBAY_21 + 3
13: Zantosa_21
14: Martha_21 + 3
15: Pippa_21
16: Timinator_21 + 1
17: Nostromo_20
18: Abba_20
19: Chipper1996_240 + 1
20: KBurrousTX_24
21: Coluccl_23
22: JaNo_24 + 7
23: RosiePosie_24 + 4
24: Lymara_24
25: ArV1_020
26: JayCookie_24
27: DrYang_24
28: Argena_49 + 1
29: Hanem_52 + 13
30: Hanem_51 + 11
31: Farrylious_51
32: OBSmoodge_54 + 2
33: OBSmoodge_53
34: ScarletRaider_50 + 1
35: Thales_45
36: FruityLoops_50
37: FruityLoops_49
38: DalanDe_46
39: Lenoshki_52 + 2
40: Lenoshki_51 + 1
41: Toneprano_49
42: GMA6_37
43: GMA6_36
44: ChisanaKitsune_48
45: ChisanaKitsune_47
46: Oogie_52
47: CalWood41100_21 + 1
48: Bumble_20
49: Circuit_20
50: Bolt007_20

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51: Nandito_20
52: Prairie_20
53: Klevey_20
54: Altadena_20
55: Divya_21
56: AirForce1_23
57: Music_21 + 3
58: BlackJade_25
59: Hirko_20
60: Jinkies_24
61: Vitus_21
62: SunnyJune_22
63: Orkz_24
64: Bubbykins_23
65: Lukepolites_20

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 347400 Report

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

Pham number 347400 has 122 members, 29 are drafts.

Phages represented in each track:
• Track 1 : EastWest_22
• Track 2 : NathanVaag_19
• Track 3 : King2_19
• Track 4 : Jawnski_19, Beans_19
• Track 5 : Franzy_19
• Track 6 : Piccoletto_19
• Track 7 : Brent_19
• Track 8 : Shade_21, Jordan_21, Sonny_21
• Track 9 : JKerns_21
• Track 10 : Sicarius2_22
• Track 11 : Wyborn_22
• Track 12 : StevieBAY_21, BarretLemon_21, GravityBall_21, BigDome_21
• Track 13 : Zartrosa_21
• Track 14 : Martha_21, BossLady_21, TaeYoung_21, Grekaycon_21
• Track 15 : Pippa_21
• Track 16 : Timinator_21, LeeroyJ_21
• Track 17 : Nostromo_20
• Track 18 : Abba_20
• Track 19 : Chipper1996_240, Tophat_24
• Track 20 : KBurrousTX_24
• Track 21 : Colucci_23
• Track 22 : JaNo_24, Kabreeze_24, Mordred_24, HumptyDumpty_24, Chocolat_24, Scavito_24, PrincessTrina_24, Linus_24
• Track 23 : RosiePosie_24, EdgarPoe_24, Conboy_24, MoyaNatalis_24, Chubster_24
• Track 24 : Lymara_24
• Track 25 : ArV1_020
• Track 26 : JayCookie_24
• Track 27 : DrYang_24
• Track 28 : Argena_49, Farrylious_50
• Track 29 : Hanem_52, Pakusa_50, Argena_50, EmoNemo_50, Amoonguss_50, Schomber_51, Twin_50, Mikronejon_52, Aloki_52, Gray_52, MintFritos_50, Toneprano_50, Kabocha_53, Chidiebere_52
• Track 30 : Hanem_51, EmoNemo_49, Pakusa_49, Twin_49, MintFritos_49, Schomber_50, Amoonguss_49, Mikronejon_51, Aloki_51, Gray_51, Kabocha_52, Chidiebere_51
• Track 31 : Farrylious_51

• Track 32 : UBSmoodge_54, ScarletRaider_51, FlyingTortilla_52
• Track 33 : UBSmoodge_53
• Track 34 : ScarletRaider_50, FlyingTortilla_51
• Track 35 : Thales_45
• Track 36 : FruityLoops_50
• Track 37 : FruityLoops_49
• Track 38 : DalanDe_46
• Track 39 : Lenoshki_52, Beted_52, Oogie_53
• Track 40 : Lenoshki_51, Beted_51
• Track 41 : Toneprano_49
• Track 42 : GMA6_37
• Track 43 : GMA6_36
• Track 44 : ChisanaKitsune_48
• Track 45 : ChisanaKitsune_47
• Track 46 : Oogie_52
• Track 47 : CalWood4100_21, Lilmac1015_21
• Track 48 : Bumble_20
• Track 49 : Circuit_20
• Track 50 : Bolt007_20
• Track 51 : Nandito_20
• Track 52 : Prairie_20
• Track 53 : Klevey_20
• Track 54 : Altadena_20
• Track 55 : Divya_21
• Track 56 : AirForce1_23
• Track 57 : Music_21, GoldDust_21, Gooberta_21, Vibaki_21
• Track 58 : BlackJade_25
• Track 59 : Hirko_20
• Track 60 : Jinkies_24
• Track 61 : Vitus_21
• Track 62 : SunnyJune_22
• Track 63 : Orkz_24
• Track 64 : Bubbykins_23
• Track 65 : Lukepolites_20

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 33 of the 93 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altadena_20, BarretLemon_21, Beans_19, BigDome_21, Bolt007_20, BossLady_21, Brent_19, Bumble_20, CalWood4100_21, Circuit_20, EastWest_22, Franzy_19, GravityBall_21, Grekaycon_21, JKerns_21, Jawnski_19, Jordan_21, King2_19, Klevey_20, LeeroyJ_21, Lilmac1015_21, Martha_21, Nandito_20, NathanVaag_19, Piccoletto_19, Pippa_21, Prairie_20, Shade_21, Sicarius2_22, Sonny_21, StevieBAY_21, TaeYoung_21, Timinator_21, Wyborn_22, Zartrosa_21,

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

Genes that do not have the "Most Annotated" start:
• Abba_20, AirForce1_23, Aloki_51, Aloki_52, Amoonguss_49, Amoonguss_50, ArV1_020, Argena_49, Argena_50, Beted_51, Beted_52, BlackJade_25, Bubbykins_23, Chidiebere_51, Chidiebere_52, Chipper1996_240, ChisanaKitsune_47, ChisanaKitsune_48, Chocolat_24, Chubster_24, Colucci_23, Conboy_24, DalanDe_46, Divya_21, DrYang_24, EdgarPoe_24, EmoNemo_49, EmoNemo_50, Farrylious_50, Farrylious_51, FlyingTortilla_51, FlyingTortilla_52, FruityLoops_49, FruityLoops_50, GMA6_36, GMA6_37, GoldDust_21, Gooberta_21, Gray_51, Gray_52, Hanem_51, Hanem_52, Hirko_20, HumptyDumpty_24, JaNo_24, JayCookie_24, Jinkies_24, KBurrousTX_24, Kabocha_52, Kabocha_53, Kabreeze_24, Lenoshki_51, Lenoshki_52, Linus_24, Lukepolites_20, Lymara_24, Mikronejon_51, Mikronejon_52, MintFritos_49, MintFritos_50, Mordred_24, MoyaNatalis_24, Music_21, Nostromo_20, Oogie_52, Oogie_53, Orkz_24, Pakusa_49, Pakusa_50, PrincessTrina_24, RosiePosie_24, ScarletRaider_50, ScarletRaider_51, Scavito_24, Schomber_50, Schomber_51, SunnyJune_22, Thales_45, Toneprano_49, Toneprano_50, Tophat_24, Twin_49, Twin_50, UBSmoodge_53, UBSmoodge_54, Vibaki_21, Vitus_21,

Summary by start number:

Start 16:
• Found in 1 of 122 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jinkies_24 (FL),

Start 18:
• Found in 2 of 122 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_20 (AO3), Nostromo_20 (AO3),

Start 19:
• Found in 35 of 122 (28.7%) of genes in pham
• Manual Annotations of this start: 33 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_20 (FH), BarretLemon_21 (AO2), Beans_19 (AO1), BigDome_21 (AO2), Bolt007_20 (FH), BossLady_21 (AO2), Brent_19 (AO1), Bumble_20 (FH), CalWood4100_21 (FH), Circuit_20 (FH), EastWest_22 (AO), Franzy_19 (AO1), GravityBall_21 (AO2), Grekaycon_21 (AO2), JKerns_21 (AO2), Jawnski_19 (AO1), Jordan_21 (AO2), King2_19 (AO1), Klevey_20 (FH), LeeroyJ_21 (AO2), Lilmac1015_21 (FH), Martha_21 (AO2), Nandito_20 (FH), NathanVaag_19 (AO1), Piccoletto_19 (AO1), Pippa_21 (AO2), Prairie_20 (FH), Shade_21 (AO2), Sicarius2_22 (AO2), Sonny_21 (AO2), StevieBAY_21 (AO2), TaeYoung_21 (AO2), Timinator_21 (AO2), Wyborn_22 (AO2), Zartrosa_21 (AO2),

Start 20:
• Found in 1 of 122 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrYang_24 (AR),

Start 21:
• Found in 2 of 122 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_46 (DQ), Thales_45 (DQ),

Start 22:
• Found in 34 of 122 (27.9%) of genes in pham
• Manual Annotations of this start: 27 of 93
• Called 97.1% of time when present
• Phage (with cluster) where this start called: AirForce1_23 (FL), ArV1_020 (AR), BlackJade_25 (FL), Bubbykins_23 (UNK), Chipper1996_240 (AR), Chocolat_24 (AR), Chubster_24 (AR), Colucci_23 (AR), Conboy_24 (AR), Divya_21 (FL), EdgarPoe_24 (AR), GoldDust_21 (FL), Gooberta_21 (FL), Hirko_20 (FL), HumptyDumpty_24 (AR), JaNo_24 (AR), JayCookie_24 (AR), KBurrousTX_24 (AR), Kabreeze_24 (AR), Linus_24 (AR), Lukepolites_20 (singleton), Lymara_24 (AR), Mordred_24 (AR), MoyaNatalis_24 (AR), Music_21 (FL), Orkz_24 (FL), PrincessTrina_24 (AR), RosiePosie_24 (AR), Scavito_24 (AR), SunnyJune_22 (FL), Tophat_24 (AR), Vibaki_21 (FL), Vitus_21 (FL),

Start 23:
• Found in 24 of 122 (19.7%) of genes in pham
• Manual Annotations of this start: 14 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_51 (DQ), Amoonguss_49 (DQ), Argena_49 (DQ), Beted_51 (DQ), Chidiebere_51 (DQ), ChisanaKitsune_47 (DQ), EmoNemo_49 (DQ), Farrylious_50 (DQ), FlyingTortilla_51 (DQ), FruityLoops_49 (DQ), GMA6_36 (DQ), Gray_51 (DQ), Hanem_51 (DQ), Kabocha_52 (DQ), Lenoshki_51 (DQ), Mikronejon_51 (DQ), MintFritos_49 (DQ), Oogie_52 (DQ), Pakusa_49 (DQ), ScarletRaider_50 (DQ), Schomber_50 (DQ), Toneprano_49 (DQ), Twin_49 (DQ), UBSmoodge_53 (DQ),

Start 24:
• Found in 23 of 122 (18.9%) of genes in pham
• Manual Annotations of this start: 14 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_52 (DQ), Amoonguss_50 (DQ), Argena_50 (DQ), Beted_52 (DQ), Chidiebere_52 (DQ), ChisanaKitsune_48 (DQ), EmoNemo_50 (DQ), Farrylious_51 (DQ), FlyingTortilla_52 (DQ), FruityLoops_50 (DQ), Gray_52 (DQ), Hanem_52 (DQ), Kabocha_53 (DQ), Lenoshki_52 (DQ), Mikronejon_52 (DQ), MintFritos_50 (DQ), Oogie_53 (DQ), Pakusa_50 (DQ), ScarletRaider_51 (DQ), Schomber_51 (DQ), Toneprano_50 (DQ), Twin_50 (DQ), UBSmoodge_54 (DQ),

Start 25:
• Found in 2 of 122 (1.6%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GMA6_37 (DQ),

Summary by clusters:

There are 10 clusters represented in this pham: singleton, AO, AR, AO3, AO2, AO1, FH, UNK, FL, DQ,

Info for manual annotations of cluster AO:
•Start number 19 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 19 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 19 was manually annotated 18 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 18 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 20 was manually annotated 1 time for cluster AR.
•Start number 22 was manually annotated 18 times for cluster AR.

Info for manual annotations of cluster DQ:
•Start number 21 was manually annotated 1 time for cluster DQ.
•Start number 23 was manually annotated 14 times for cluster DQ.
•Start number 24 was manually annotated 14 times for cluster DQ.

Info for manual annotations of cluster FH:
•Start number 19 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster FL:
•Start number 16 was manually annotated 1 time for cluster FL.
•Start number 22 was manually annotated 8 times for cluster FL.

Info for manual annotations of cluster UNK:
•Start number 22 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Abba_20 Start: 17372, Stop: 18694, Start Num: 18
Candidate Starts for Abba_20:
(Start: 18 @17372 has 2 MA's), (41, 17492), (42, 17501), (48, 17531), (50, 17552), (62, 17639), (80, 17759), (87, 17801), (89, 17849), (110, 18002), (113, 18011), (129, 18107), (138, 18140), (142, 18158), (148, 18197), (171, 18305), (218, 18575), (237, 18659), (240, 18686),

Gene: AirForce1_23 Start: 17277, Stop: 18656, Start Num: 22
Candidate Starts for AirForce1_23:
(Start: 22 @17277 has 27 MA's), (26, 17289), (42, 17403), (56, 17499), (59, 17511), (76, 17643), (80, 17661), (83, 17673), (93, 17781), (102, 17835), (113, 17913), (131, 18015), (132, 18018), (135, 18033), (138, 18042), (145, 18081), (150, 18105), (164, 18183), (176, 18264), (179, 18285), (191, 18345), (208, 18435), (226, 18531), (235, 18567), (241, 18612), (243, 18642), (244, 18648), (245, 18651),

Gene: Aloki_51 Start: 38202, Stop: 39560, Start Num: 23

Candidate Starts for Aloki_51:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Aloki_52 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Aloki_52:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Altadena_20 Start: 16398, Stop: 17723, Start Num: 19
Candidate Starts for Altadena_20:
(Start: 19 @16398 has 33 MA's), (33, 16470), (42, 16527), (49, 16563), (51, 16599), (55, 16620), (56, 16623), (80, 16785), (113, 17034), (143, 17190), (179, 17385), (226, 17637), (238, 17691),

Gene: Amoonguss_50 Start: 39574, Stop: 40926, Start Num: 24
Candidate Starts for Amoonguss_50:
(9, 39469), (13, 39484), (17, 39529), (Start: 24 @39574 has 14 MA's), (31, 39625), (38, 39676), (40, 39688), (52, 39787), (54, 39802), (56, 39808), (57, 39814), (66, 39871), (69, 39904), (80, 39976), (82, 39985), (88, 40027), (96, 40117), (101, 40153), (104, 40171), (111, 40222), (113, 40228), (115, 40243), (124, 40300), (128, 40321), (130, 40327), (132, 40333), (137, 40354), (142, 40375), (143, 40384), (148, 40414), (150, 40420), (195, 40681), (202, 40717), (210, 40771), (215, 40804), (216, 40822), (221, 40849), (229, 40879), (237, 40912),

Gene: Amoonguss_49 Start: 38205, Stop: 39563, Start Num: 23
Candidate Starts for Amoonguss_49:
(Start: 23 @38205 has 14 MA's), (35, 38286), (39, 38310), (40, 38316), (42, 38334), (74, 38574), (78, 38589), (80, 38601), (94, 38730), (96, 38742), (101, 38778), (105, 38799), (111, 38856), (114, 38874), (123, 38925), (130, 38961), (133, 38970), (134, 38976), (136, 38985), (147, 39039), (148, 39042), (155, 39072), (160, 39111), (167, 39144), (173, 39192), (184, 39273), (198, 39324), (207, 39396), (212, 39435), (213, 39438), (216, 39459), (221, 39486), (224, 39492), (232, 39525),

Gene: ArV1_020 Start: 18261, Stop: 19604, Start Num: 22
Candidate Starts for ArV1_020:
(6, 18120), (7, 18126), (Start: 22 @18261 has 27 MA's), (30, 18303), (34, 18333), (46, 18402), (47, 18411), (51, 18459), (55, 18480), (58, 18492), (59, 18495), (60, 18501), (67, 18555), (74, 18618), (80, 18645), (83, 18657), (89, 18732), (97, 18786), (102, 18816), (110, 18885), (113, 18894), (115, 18909), (119, 18939), (120, 18945), (130, 18993), (132, 18999), (138, 19023), (145, 19062), (146, 19068), (147, 19077), (150, 19086), (166, 19173), (167, 19176), (178, 19260), (187, 19302), (191, 19326), (205, 19401), (213, 19452), (216, 19476), (218, 19485), (219, 19488), (223, 19509),

Gene: Argena_49 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Argena_49:
(Start: 23 @38202 has 14 MA's), (35, 38283), (40, 38313), (42, 38331), (74, 38571), (77, 38583), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (121, 38916), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321),

(207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Argena_50 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Argena_50:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: BarretLemon_21 Start: 17047, Stop: 18387, Start Num: 19
Candidate Starts for BarretLemon_21:
(Start: 19 @17047 has 33 MA's), (30, 17089), (31, 17104), (33, 17116), (42, 17173), (50, 17224), (74, 17404), (80, 17431), (83, 17443), (87, 17473), (89, 17521), (93, 17551), (102, 17605), (113, 17683), (130, 17782), (138, 17812), (176, 18028), (179, 18049), (214, 18238), (218, 18268), (223, 18292), (226, 18301), (240, 18379),

Gene: Beans_19 Start: 16750, Stop: 18096, Start Num: 19
Candidate Starts for Beans_19:
(7, 16621), (Start: 19 @16750 has 33 MA's), (42, 16876), (50, 16927), (74, 17107), (80, 17134), (83, 17146), (87, 17176), (89, 17224), (91, 17236), (110, 17377), (113, 17386), (130, 17485), (138, 17515), (145, 17554), (147, 17569), (148, 17572), (149, 17575), (179, 17758), (214, 17947), (218, 17977), (233, 18040),

Gene: Beted_52 Start: 41251, Stop: 42603, Start Num: 24
Candidate Starts for Beted_52:
(9, 41146), (13, 41161), (17, 41206), (Start: 24 @41251 has 14 MA's), (31, 41302), (38, 41353), (40, 41365), (52, 41464), (54, 41479), (56, 41485), (57, 41491), (66, 41548), (69, 41581), (80, 41653), (82, 41662), (88, 41704), (96, 41794), (104, 41848), (111, 41899), (113, 41905), (115, 41920), (124, 41977), (128, 41998), (130, 42004), (132, 42010), (137, 42031), (142, 42052), (143, 42061), (148, 42091), (150, 42097), (195, 42358), (202, 42394), (210, 42448), (215, 42481), (216, 42499), (221, 42526), (229, 42556), (237, 42589),

Gene: Beted_51 Start: 39882, Stop: 41240, Start Num: 23
Candidate Starts for Beted_51:
(Start: 23 @39882 has 14 MA's), (35, 39963), (39, 39987), (40, 39993), (42, 40011), (74, 40251), (77, 40263), (78, 40266), (80, 40278), (94, 40407), (96, 40419), (101, 40455), (105, 40476), (111, 40533), (114, 40551), (121, 40596), (123, 40602), (130, 40638), (133, 40647), (134, 40653), (136, 40662), (147, 40716), (148, 40719), (155, 40749), (160, 40788), (161, 40794), (167, 40821), (173, 40869), (184, 40950), (198, 41001), (207, 41073), (212, 41112), (213, 41115), (216, 41136), (221, 41163), (224, 41169), (232, 41202),

Gene: BigDome_21 Start: 17035, Stop: 18375, Start Num: 19
Candidate Starts for BigDome_21:
(Start: 19 @17035 has 33 MA's), (30, 17077), (31, 17092), (33, 17104), (42, 17161), (50, 17212), (74, 17392), (80, 17419), (83, 17431), (87, 17461), (89, 17509), (93, 17539), (102, 17593), (113, 17671), (130, 17770), (138, 17800), (176, 18016), (179, 18037), (214, 18226), (218, 18256), (223, 18280), (226, 18289), (240, 18367),

Gene: BlackJade_25 Start: 19219, Stop: 20595, Start Num: 22
Candidate Starts for BlackJade_25:

(Start: 22 @19219 has 27 MA's), (30, 19261), (33, 19288), (42, 19345), (44, 19354), (49, 19381), (59, 19453), (65, 19492), (67, 19513), (68, 19522), (74, 19576), (76, 19585), (80, 19603), (83, 19615), (93, 19723), (99, 19753), (110, 19846), (113, 19855), (119, 19900), (120, 19906), (135, 19975), (138, 19984), (142, 20002), (143, 20011), (145, 20023), (147, 20038), (148, 20041), (150, 20047), (163, 20122), (171, 20167), (174, 20179), (179, 20221), (194, 20296), (196, 20299), (197, 20302), (208, 20374), (225, 20467), (226, 20470), (232, 20497), (239, 20533), (244, 20587),

Gene: Bolt007_20 Start: 16226, Stop: 17575, Start Num: 19
Candidate Starts for Bolt007_20:
(Start: 19 @16226 has 33 MA's), (33, 16298), (41, 16346), (42, 16355), (49, 16391), (51, 16427), (55, 16448), (56, 16451), (80, 16613), (113, 16862), (179, 17225), (226, 17489), (233, 17519),

Gene: BossLady_21 Start: 17061, Stop: 18410, Start Num: 19
Candidate Starts for BossLady_21:
(Start: 19 @17061 has 33 MA's), (42, 17187), (50, 17238), (74, 17418), (80, 17445), (83, 17457), (87, 17487), (110, 17688), (113, 17697), (119, 17742), (121, 17754), (138, 17826), (150, 17889), (176, 18051), (179, 18072), (214, 18261), (218, 18291), (223, 18315), (226, 18324),

Gene: Brent_19 Start: 16732, Stop: 18078, Start Num: 19
Candidate Starts for Brent_19:
(7, 16603), (Start: 19 @16732 has 33 MA's), (42, 16858), (50, 16909), (56, 16954), (74, 17089), (80, 17116), (83, 17128), (87, 17158), (89, 17206), (91, 17218), (102, 17290), (110, 17359), (113, 17368), (130, 17467), (135, 17488), (138, 17497), (145, 17536), (149, 17557), (150, 17560), (165, 17647), (174, 17698), (176, 17719), (179, 17740), (190, 17797), (214, 17929), (218, 17959), (224, 17986), (233, 18022),

Gene: Bubbykins_23 Start: 19505, Stop: 20887, Start Num: 22
Candidate Starts for Bubbykins_23:
(11, 19409), (Start: 22 @19505 has 27 MA's), (31, 19562), (34, 19577), (47, 19655), (48, 19661), (55, 19724), (58, 19736), (72, 19844), (73, 19850), (74, 19862), (79, 19883), (80, 19889), (84, 19913), (87, 19931), (89, 19976), (100, 20039), (102, 20060), (110, 20129), (113, 20138), (118, 20174), (119, 20183), (122, 20198), (129, 20234), (130, 20237), (135, 20258), (138, 20267), (142, 20285), (143, 20294), (145, 20306), (146, 20312), (147, 20321), (150, 20330), (151, 20339), (172, 20462), (173, 20465), (174, 20471), (175, 20483), (177, 20501), (183, 20540), (185, 20546), (191, 20573), (217, 20729), (225, 20762), (237, 20816), (239, 20828), (242, 20873),

Gene: Bumble_20 Start: 16403, Stop: 17731, Start Num: 19
Candidate Starts for Bumble_20:
(Start: 19 @16403 has 33 MA's), (41, 16523), (49, 16568), (51, 16604), (55, 16625), (80, 16790), (113, 17039), (148, 17225), (179, 17393), (226, 17645), (233, 17675), (238, 17699),

Gene: CalWood4100_21 Start: 16206, Stop: 17573, Start Num: 19
Candidate Starts for CalWood4100_21:
(Start: 19 @16206 has 33 MA's), (33, 16278), (41, 16326), (42, 16335), (49, 16371), (51, 16407), (55, 16428), (80, 16593), (95, 16716), (113, 16842), (179, 17223), (226, 17487), (233, 17517),

Gene: Chidiebere_52 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Chidiebere_52:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216,

40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Chidiebere_51 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Chidiebere_51:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Chipper1996_240 Start: 19940, Stop: 21283, Start Num: 22
Candidate Starts for Chipper1996_240:
(Start: 22 @19940 has 27 MA's), (30, 19982), (34, 20012), (41, 20057), (47, 20090), (55, 20159), (58, 20171), (59, 20174), (65, 20213), (67, 20234), (74, 20297), (81, 20327), (82, 20333), (90, 20414), (102, 20495), (110, 20564), (113, 20573), (119, 20618), (122, 20633), (130, 20672), (132, 20678), (135, 20693), (138, 20702), (142, 20720), (145, 20741), (146, 20747), (150, 20765), (156, 20792), (166, 20852), (167, 20855), (174, 20903), (175, 20915), (178, 20939), (185, 20978), (187, 20981), (204, 21074), (205, 21080), (216, 21155), (218, 21164), (219, 21167),

Gene: ChisanaKitsune_48 Start: 38362, Stop: 39714, Start Num: 24
Candidate Starts for ChisanaKitsune_48:
(9, 38257), (13, 38272), (17, 38317), (Start: 24 @38362 has 14 MA's), (31, 38413), (38, 38464), (40, 38476), (52, 38575), (54, 38590), (57, 38602), (66, 38659), (69, 38692), (80, 38764), (82, 38773), (88, 38815), (96, 38905), (104, 38959), (111, 39010), (113, 39016), (115, 39031), (124, 39088), (128, 39109), (130, 39115), (132, 39121), (137, 39142), (142, 39163), (143, 39172), (148, 39202), (150, 39208), (195, 39469), (202, 39505), (210, 39559), (215, 39592), (216, 39610), (221, 39637), (229, 39667), (237, 39700),

Gene: ChisanaKitsune_47 Start: 36993, Stop: 38351, Start Num: 23
Candidate Starts for ChisanaKitsune_47:
(15, 36930), (Start: 23 @36993 has 14 MA's), (35, 37074), (40, 37104), (42, 37122), (77, 37374), (78, 37377), (80, 37389), (94, 37518), (96, 37530), (101, 37566), (105, 37587), (111, 37644), (114, 37662), (123, 37713), (130, 37749), (133, 37758), (134, 37764), (136, 37773), (147, 37827), (148, 37830), (155, 37860), (160, 37899), (167, 37932), (173, 37980), (184, 38061), (198, 38112), (207, 38184), (212, 38223), (213, 38226), (216, 38247), (221, 38274), (224, 38280), (232, 38313),

Gene: Chocolat_24 Start: 19941, Stop: 21284, Start Num: 22
Candidate Starts for Chocolat_24:
(Start: 22 @19941 has 27 MA's), (30, 19983), (41, 20058), (47, 20091), (55, 20160), (58, 20172), (59, 20175), (65, 20214), (67, 20235), (74, 20298), (81, 20328), (82, 20334), (90, 20415), (102, 20496), (110, 20565), (113, 20574), (119, 20619), (122, 20634), (130, 20673), (132, 20679), (135, 20694), (138, 20703), (142, 20721), (145, 20742), (146, 20748), (150, 20766), (156, 20793), (166, 20853), (167, 20856), (174, 20904), (175, 20916), (178, 20940), (185, 20979), (187, 20982), (204, 21075), (205, 21081), (216, 21156), (218, 21165), (219, 21168),

Gene: Chubster_24 Start: 19711, Stop: 21054, Start Num: 22
Candidate Starts for Chubster_24:
(Start: 22 @19711 has 27 MA's), (30, 19753), (34, 19783), (41, 19828), (47, 19861), (55, 19930), (58, 19942), (59, 19945), (65, 19984), (67, 20005), (74, 20068), (81, 20098), (82, 20104), (90, 20185), (102, 20266), (110, 20335), (113, 20344), (119, 20389), (122, 20404), (130, 20443), (132, 20449), (135, 20464), (138, 20473), (142, 20491), (145, 20512), (146, 20518), (150, 20536), (156, 20563), (166, 20623), (167, 20626), (175, 20686), (178, 20710), (185, 20749), (187, 20752), (204, 20845), (205, 20851), (216, 20926), (218, 20935), (219, 20938),

Gene: Circuit_20 Start: 16398, Stop: 17726, Start Num: 19
Candidate Starts for Circuit_20:
(Start: 19 @16398 has 33 MA's), (33, 16470), (41, 16518), (42, 16527), (49, 16563), (51, 16599), (55, 16620), (79, 16779), (80, 16785), (113, 17034), (148, 17220), (153, 17244), (179, 17388), (226, 17640), (233, 17670), (238, 17694),

Gene: Colucci_23 Start: 19410, Stop: 20753, Start Num: 22
Candidate Starts for Colucci_23:
(Start: 22 @19410 has 27 MA's), (30, 19452), (34, 19482), (46, 19551), (47, 19560), (55, 19629), (56, 19632), (58, 19641), (59, 19644), (60, 19650), (67, 19704), (74, 19767), (80, 19794), (82, 19803), (83, 19806), (90, 19884), (102, 19965), (103, 19971), (110, 20034), (113, 20043), (119, 20088), (120, 20094), (130, 20142), (138, 20172), (145, 20211), (147, 20226), (148, 20229), (156, 20262), (162, 20301), (166, 20322), (167, 20325), (168, 20331), (183, 20442), (187, 20451), (191, 20475), (205, 20550), (216, 20625),

Gene: Conboy_24 Start: 19939, Stop: 21282, Start Num: 22
Candidate Starts for Conboy_24:
(Start: 22 @19939 has 27 MA's), (30, 19981), (34, 20011), (41, 20056), (47, 20089), (55, 20158), (58, 20170), (59, 20173), (65, 20212), (67, 20233), (74, 20296), (81, 20326), (82, 20332), (90, 20413), (102, 20494), (110, 20563), (113, 20572), (119, 20617), (122, 20632), (130, 20671), (132, 20677), (135, 20692), (138, 20701), (142, 20719), (145, 20740), (146, 20746), (150, 20764), (156, 20791), (166, 20851), (167, 20854), (175, 20914), (178, 20938), (185, 20977), (187, 20980), (204, 21073), (205, 21079), (216, 21154), (218, 21163), (219, 21166),

Gene: DalanDe_46 Start: 41242, Stop: 42573, Start Num: 21
Candidate Starts for DalanDe_46:
(Start: 21 @41242 has 1 MA's), (27, 41266), (28, 41272), (29, 41275), (38, 41338), (39, 41344), (45, 41380), (53, 41461), (68, 41554), (69, 41563), (71, 41575), (74, 41608), (77, 41620), (78, 41623), (80, 41635), (88, 41686), (111, 41869), (112, 41872), (116, 41893), (117, 41902), (121, 41932), (123, 41938), (128, 41968), (140, 42010), (142, 42016), (147, 42052), (150, 42061), (157, 42094), (180, 42265), (182, 42277), (184, 42283), (192, 42313), (198, 42334), (200, 42355), (207, 42406), (212, 42445), (213, 42448), (216, 42469), (221, 42496), (224, 42502), (232, 42535), (236, 42547),

Gene: Divya_21 Start: 16626, Stop: 18002, Start Num: 22
Candidate Starts for Divya_21:
(Start: 22 @16626 has 27 MA's), (30, 16668), (31, 16683), (33, 16695), (37, 16710), (42, 16752), (47, 16776), (62, 16890), (63, 16893), (65, 16899), (67, 16920), (74, 16983), (79, 17004), (80, 17010), (82, 17019), (83, 17022), (85, 17040), (93, 17130), (95, 17136), (98, 17157), (99, 17160), (102, 17184), (110, 17253), (113, 17262), (120, 17313), (132, 17367), (138, 17391), (142, 17409), (145, 17430), (147, 17445), (150, 17454), (169, 17556), (176, 17607), (179, 17628), (183, 17655), (191, 17688), (208, 17781), (225, 17874), (226, 17877), (232, 17904), (243, 17988), (244, 17994),

Gene: DrYang_24 Start: 20135, Stop: 21481, Start Num: 20
Candidate Starts for DrYang_24:
(Start: 20 @20135 has 1 MA's), (30, 20180), (31, 20195), (34, 20210), (41, 20255), (43, 20270), (47, 20288), (48, 20294), (51, 20336), (55, 20357), (58, 20369), (60, 20378), (67, 20432), (74, 20495), (80, 20522), (84, 20546), (90, 20612), (102, 20693), (110, 20762), (113, 20771), (115, 20786), (119, 20816), (130, 20870), (132, 20876), (135, 20891), (138, 20900), (142, 20918), (145, 20939), (146, 20945), (156, 20990), (158, 21002), (166, 21050), (167, 21053), (174, 21101), (175, 21113), (178, 21137), (183, 21170), (185, 21176), (187, 21179), (204, 21272), (219, 21365),

Gene: EastWest_22 Start: 17037, Stop: 18389, Start Num: 19

Candidate Starts for EastWest_22:
(Start: 19 @17037 has 33 MA's), (26, 17049), (30, 17079), (33, 17106), (42, 17163), (50, 17214), (67, 17331), (80, 17421), (83, 17433), (87, 17463), (91, 17523), (92, 17535), (113, 17673), (130, 17772), (138, 17802), (139, 17811), (142, 17820), (176, 18018), (218, 18270), (226, 18303), (233, 18333), (240, 18381),

Gene: EdgarPoe_24 Start: 19939, Stop: 21282, Start Num: 22
Candidate Starts for EdgarPoe_24:
(Start: 22 @19939 has 27 MA's), (30, 19981), (34, 20011), (41, 20056), (47, 20089), (55, 20158), (58, 20170), (59, 20173), (65, 20212), (67, 20233), (74, 20296), (81, 20326), (82, 20332), (90, 20413), (102, 20494), (110, 20563), (113, 20572), (119, 20617), (122, 20632), (130, 20671), (132, 20677), (135, 20692), (138, 20701), (142, 20719), (145, 20740), (146, 20746), (150, 20764), (156, 20791), (166, 20851), (167, 20854), (175, 20914), (178, 20938), (185, 20977), (187, 20980), (204, 21073), (205, 21079), (216, 21154), (218, 21163), (219, 21166),

Gene: EmoNemo_49 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for EmoNemo_49:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: EmoNemo_50 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for EmoNemo_50:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Farrylious_50 Start: 37978, Stop: 39336, Start Num: 23
Candidate Starts for Farrylious_50:
(Start: 23 @37978 has 14 MA's), (35, 38059), (40, 38089), (42, 38107), (74, 38347), (77, 38359), (78, 38362), (80, 38374), (94, 38503), (96, 38515), (101, 38551), (105, 38572), (111, 38629), (114, 38647), (121, 38692), (123, 38698), (130, 38734), (133, 38743), (134, 38749), (136, 38758), (147, 38812), (148, 38815), (155, 38845), (160, 38884), (167, 38917), (173, 38965), (184, 39046), (198, 39097), (207, 39169), (212, 39208), (213, 39211), (216, 39232), (221, 39259), (224, 39265), (232, 39298),

Gene: Farrylious_51 Start: 39347, Stop: 40699, Start Num: 24
Candidate Starts for Farrylious_51:
(9, 39242), (13, 39257), (17, 39302), (Start: 24 @39347 has 14 MA's), (31, 39398), (38, 39449), (40, 39461), (52, 39560), (54, 39575), (56, 39581), (57, 39587), (66, 39644), (69, 39677), (80, 39749), (82, 39758), (88, 39800), (96, 39890), (101, 39926), (104, 39944), (111, 39995), (113, 40001), (115, 40016), (124, 40073), (128, 40094), (130, 40100), (137, 40127), (142, 40148), (143, 40157), (148, 40187), (150, 40193), (195, 40454), (202, 40490), (210, 40544), (215, 40577), (216, 40595), (221, 40622), (229, 40652), (237, 40685),

Gene: FlyingTortilla_51 Start: 41776, Stop: 43140, Start Num: 23
Candidate Starts for FlyingTortilla_51:
(Start: 23 @41776 has 14 MA's), (35, 41857), (40, 41887), (42, 41905), (45, 41917), (68, 42091), (69, 42100), (74, 42145), (77, 42157), (80, 42172), (94, 42301), (96, 42313), (101, 42349), (105, 42370),

(111, 42427), (132, 42538), (133, 42541), (134, 42547), (136, 42556), (154, 42640), (160, 42682), (167, 42721), (173, 42769), (184, 42850), (198, 42901), (206, 42961), (207, 42973), (212, 43012), (213, 43015), (216, 43036), (232, 43102),

Gene: FlyingTortilla_52 Start: 43151, Stop: 44503, Start Num: 24
Candidate Starts for FlyingTortilla_52:
(9, 43046), (17, 43106), (Start: 24 @43151 has 14 MA's), (32, 43220), (38, 43253), (52, 43364), (54, 43379), (57, 43391), (66, 43448), (69, 43481), (80, 43553), (87, 43595), (96, 43694), (106, 43757), (111, 43799), (113, 43805), (115, 43820), (124, 43877), (128, 43898), (130, 43904), (137, 43931), (141, 43949), (142, 43952), (143, 43961), (181, 44204), (195, 44258), (203, 44309), (210, 44348), (214, 44378), (215, 44381), (216, 44399), (221, 44426), (237, 44489),

Gene: Franzy_19 Start: 16732, Stop: 18078, Start Num: 19
Candidate Starts for Franzy_19:
(7, 16603), (Start: 19 @16732 has 33 MA's), (42, 16858), (50, 16909), (56, 16954), (74, 17089), (80, 17116), (83, 17128), (87, 17158), (89, 17206), (91, 17218), (95, 17242), (102, 17290), (110, 17359), (113, 17368), (130, 17467), (135, 17488), (138, 17497), (145, 17536), (149, 17557), (150, 17560), (165, 17647), (174, 17698), (176, 17719), (179, 17740), (190, 17797), (214, 17929), (218, 17959), (224, 17986), (233, 18022),

Gene: FruityLoops_50 Start: 42451, Stop: 43803, Start Num: 24
Candidate Starts for FruityLoops_50:
(9, 42346), (17, 42406), (Start: 24 @42451 has 14 MA's), (32, 42520), (38, 42553), (52, 42664), (54, 42679), (57, 42691), (66, 42748), (69, 42781), (80, 42853), (87, 42895), (90, 42952), (96, 42994), (106, 43057), (111, 43099), (113, 43105), (115, 43120), (124, 43177), (128, 43198), (130, 43204), (137, 43231), (141, 43249), (142, 43252), (143, 43261), (181, 43504), (195, 43558), (203, 43609), (210, 43648), (214, 43678), (215, 43681), (216, 43699), (221, 43726), (237, 43789),

Gene: FruityLoops_49 Start: 41076, Stop: 42440, Start Num: 23
Candidate Starts for FruityLoops_49:
(Start: 23 @41076 has 14 MA's), (35, 41157), (40, 41187), (42, 41205), (68, 41391), (69, 41400), (74, 41445), (77, 41457), (80, 41472), (94, 41601), (96, 41613), (101, 41649), (105, 41670), (111, 41727), (132, 41838), (133, 41841), (134, 41847), (136, 41856), (147, 41910), (154, 41940), (160, 41982), (167, 42021), (173, 42069), (184, 42150), (198, 42201), (201, 42228), (206, 42261), (207, 42273), (211, 42297), (212, 42312), (213, 42315), (216, 42336), (224, 42369), (232, 42402),

Gene: GMA6_37 Start: 30895, Stop: 32241, Start Num: 25
Candidate Starts for GMA6_37:
(25, 30895), (35, 30964), (37, 30970), (42, 31012), (52, 31093), (54, 31108), (56, 31114), (57, 31120), (61, 31156), (80, 31282), (88, 31333), (98, 31435), (111, 31528), (113, 31534), (115, 31549), (126, 31618), (137, 31660), (140, 31675), (186, 31954), (195, 31996), (202, 32032), (214, 32116), (216, 32137), (217, 32143), (221, 32164), (222, 32167), (227, 32179), (228, 32191), (230, 32197), (234, 32209),

Gene: GMA6_36 Start: 29518, Stop: 30879, Start Num: 23
Candidate Starts for GMA6_36:
(4, 29350), (5, 29374), (8, 29416), (10, 29422), (Start: 23 @29518 has 14 MA's), (28, 29548), (29, 29551), (35, 29593), (36, 29596), (42, 29641), (45, 29653), (91, 30016), (105, 30106), (111, 30163), (141, 30307), (152, 30367), (159, 30415), (167, 30460), (184, 30589), (200, 30661), (207, 30712), (212, 30751), (213, 30754), (216, 30775), (224, 30808), (232, 30841),

Gene: GoldDust_21 Start: 19127, Stop: 20455, Start Num: 22
Candidate Starts for GoldDust_21:

(Start: 22 @19127 has 27 MA's), (42, 19253), (74, 19484), (80, 19511), (83, 19523), (85, 19541), (110, 19754), (113, 19763), (131, 19865), (138, 19892), (163, 20033), (193, 20186), (225, 20366),

Gene: Gooberta_21 Start: 19126, Stop: 20454, Start Num: 22
Candidate Starts for Gooberta_21:
(Start: 22 @19126 has 27 MA's), (42, 19252), (74, 19483), (80, 19510), (83, 19522), (85, 19540), (110, 19753), (113, 19762), (131, 19864), (138, 19891), (163, 20032), (193, 20185), (225, 20365),

Gene: GravityBall_21 Start: 17046, Stop: 18386, Start Num: 19
Candidate Starts for GravityBall_21:
(Start: 19 @17046 has 33 MA's), (30, 17088), (31, 17103), (33, 17115), (42, 17172), (50, 17223), (74, 17403), (80, 17430), (83, 17442), (87, 17472), (89, 17520), (93, 17550), (102, 17604), (113, 17682), (130, 17781), (138, 17811), (176, 18027), (179, 18048), (214, 18237), (218, 18267), (223, 18291), (226, 18300), (240, 18378),

Gene: Gray_52 Start: 39572, Stop: 40924, Start Num: 24
Candidate Starts for Gray_52:
(9, 39467), (13, 39482), (17, 39527), (Start: 24 @39572 has 14 MA's), (31, 39623), (38, 39674), (40, 39686), (52, 39785), (54, 39800), (56, 39806), (57, 39812), (66, 39869), (69, 39902), (80, 39974), (82, 39983), (88, 40025), (96, 40115), (101, 40151), (104, 40169), (111, 40220), (113, 40226), (115, 40241), (124, 40298), (128, 40319), (130, 40325), (132, 40331), (137, 40352), (142, 40373), (143, 40382), (148, 40412), (150, 40418), (195, 40679), (202, 40715), (210, 40769), (215, 40802), (216, 40820), (221, 40847), (229, 40877), (237, 40910),

Gene: Gray_51 Start: 38203, Stop: 39561, Start Num: 23
Candidate Starts for Gray_51:
(Start: 23 @38203 has 14 MA's), (35, 38284), (39, 38308), (40, 38314), (42, 38332), (74, 38572), (78, 38587), (80, 38599), (94, 38728), (96, 38740), (101, 38776), (105, 38797), (111, 38854), (114, 38872), (123, 38923), (130, 38959), (133, 38968), (134, 38974), (136, 38983), (147, 39037), (148, 39040), (155, 39070), (160, 39109), (167, 39142), (173, 39190), (184, 39271), (198, 39322), (207, 39394), (212, 39433), (213, 39436), (216, 39457), (221, 39484), (224, 39490), (232, 39523),

Gene: Grekaycon_21 Start: 17070, Stop: 18419, Start Num: 19
Candidate Starts for Grekaycon_21:
(Start: 19 @17070 has 33 MA's), (42, 17196), (50, 17247), (74, 17427), (80, 17454), (83, 17466), (87, 17496), (110, 17697), (113, 17706), (119, 17751), (121, 17763), (138, 17835), (150, 17898), (176, 18060), (179, 18081), (214, 18270), (218, 18300), (223, 18324), (226, 18333),

Gene: Hanem_52 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Hanem_52:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Hanem_51 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Hanem_51:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393),

(212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Hirko_20 Start: 18622, Stop: 19941, Start Num: 22
Candidate Starts for Hirko_20:
(Start: 22 @18622 has 27 MA's), (42, 18748), (74, 18979), (80, 19006), (83, 19018), (85, 19036), (97, 19150), (110, 19249), (113, 19258), (131, 19360), (138, 19387), (193, 19672), (209, 19759), (231, 19876),

Gene: HumptyDumpty_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for HumptyDumpty_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: JKerns_21 Start: 17097, Stop: 18446, Start Num: 19
Candidate Starts for JKerns_21:
(3, 16836), (Start: 19 @17097 has 33 MA's), (42, 17223), (50, 17274), (74, 17454), (80, 17481), (83, 17493), (87, 17523), (110, 17724), (113, 17733), (119, 17778), (121, 17790), (138, 17862), (150, 17925), (176, 18087), (179, 18108), (214, 18297), (218, 18327), (223, 18351), (224, 18354), (226, 18360),

Gene: JaNo_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for JaNo_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: Jawnski_19 Start: 16745, Stop: 18091, Start Num: 19
Candidate Starts for Jawnski_19:
(7, 16616), (Start: 19 @16745 has 33 MA's), (42, 16871), (50, 16922), (74, 17102), (80, 17129), (83, 17141), (87, 17171), (89, 17219), (91, 17231), (110, 17372), (113, 17381), (130, 17480), (138, 17510), (145, 17549), (147, 17564), (148, 17567), (149, 17570), (179, 17753), (214, 17942), (218, 17972), (233, 18035),

Gene: JayCookie_24 Start: 19941, Stop: 21284, Start Num: 22
Candidate Starts for JayCookie_24:
(Start: 22 @19941 has 27 MA's), (30, 19983), (41, 20058), (47, 20091), (55, 20160), (58, 20172), (59, 20175), (65, 20214), (67, 20235), (74, 20298), (81, 20328), (82, 20334), (90, 20415), (102, 20496), (110, 20565), (113, 20574), (119, 20619), (122, 20634), (130, 20673), (132, 20679), (135, 20694), (138, 20703), (142, 20721), (145, 20742), (146, 20748), (150, 20766), (156, 20793), (166, 20853), (167, 20856), (175, 20916), (178, 20940), (185, 20979), (187, 20982), (204, 21075), (205, 21081), (216, 21156), (218, 21165), (219, 21168),

Gene: Jinkies_24 Start: 19903, Stop: 21324, Start Num: 16
Candidate Starts for Jinkies_24:
(14, 19888), (Start: 16 @19903 has 1 MA's), (Start: 22 @19945 has 27 MA's), (30, 19987), (42, 20071), (43, 20077), (56, 20167), (59, 20179), (68, 20248), (76, 20311), (80, 20329), (83, 20341), (93, 20449),

(102, 20503), (113, 20581), (131, 20683), (135, 20701), (138, 20710), (145, 20749), (150, 20773), (164, 20851), (176, 20932), (179, 20953), (208, 21103), (220, 21178), (225, 21196), (226, 21199), (235, 21235), (241, 21280), (243, 21310), (244, 21316), (245, 21319),

Gene: Jordan_21 Start: 17067, Stop: 18416, Start Num: 19
Candidate Starts for Jordan_21:
(3, 16806), (Start: 19 @17067 has 33 MA's), (42, 17193), (50, 17244), (74, 17424), (80, 17451), (83, 17463), (87, 17493), (110, 17694), (113, 17703), (119, 17748), (121, 17760), (138, 17832), (150, 17895), (176, 18057), (179, 18078), (214, 18267), (218, 18297), (223, 18321), (226, 18330),

Gene: KBurrousTX_24 Start: 19972, Stop: 21312, Start Num: 22
Candidate Starts for KBurrousTX_24:
(Start: 22 @19972 has 27 MA's), (30, 20014), (31, 20029), (34, 20044), (43, 20104), (47, 20122), (51, 20170), (55, 20191), (58, 20203), (59, 20206), (60, 20212), (67, 20266), (70, 20287), (73, 20317), (74, 20329), (75, 20332), (80, 20356), (82, 20365), (87, 20398), (89, 20443), (97, 20497), (99, 20503), (102, 20527), (113, 20605), (115, 20620), (121, 20662), (130, 20704), (138, 20734), (142, 20752), (145, 20773), (146, 20779), (150, 20797), (156, 20824), (166, 20884), (167, 20887), (175, 20944), (178, 20968), (183, 21001), (185, 21007), (187, 21010), (204, 21103), (216, 21184), (219, 21196),

Gene: Kabocha_52 Start: 39015, Stop: 40373, Start Num: 23
Candidate Starts for Kabocha_52:
(Start: 23 @39015 has 14 MA's), (35, 39096), (39, 39120), (40, 39126), (42, 39144), (74, 39384), (78, 39399), (80, 39411), (94, 39540), (96, 39552), (101, 39588), (105, 39609), (111, 39666), (114, 39684), (123, 39735), (130, 39771), (133, 39780), (134, 39786), (136, 39795), (147, 39849), (148, 39852), (155, 39882), (160, 39921), (167, 39954), (173, 40002), (184, 40083), (198, 40134), (207, 40206), (212, 40245), (213, 40248), (216, 40269), (221, 40296), (224, 40302), (232, 40335),

Gene: Kabocha_53 Start: 40384, Stop: 41736, Start Num: 24
Candidate Starts for Kabocha_53:
(9, 40279), (13, 40294), (17, 40339), (Start: 24 @40384 has 14 MA's), (31, 40435), (38, 40486), (40, 40498), (52, 40597), (54, 40612), (56, 40618), (57, 40624), (66, 40681), (69, 40714), (80, 40786), (82, 40795), (88, 40837), (96, 40927), (101, 40963), (104, 40981), (111, 41032), (113, 41038), (115, 41053), (124, 41110), (128, 41131), (130, 41137), (132, 41143), (137, 41164), (142, 41185), (143, 41194), (148, 41224), (150, 41230), (195, 41491), (202, 41527), (210, 41581), (215, 41614), (216, 41632), (221, 41659), (229, 41689), (237, 41722),

Gene: Kabreeze_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for Kabreeze_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: King2_19 Start: 16732, Stop: 18081, Start Num: 19
Candidate Starts for King2_19:
(Start: 19 @16732 has 33 MA's), (42, 16858), (50, 16909), (74, 17089), (80, 17116), (83, 17128), (87, 17158), (89, 17206), (91, 17218), (95, 17242), (110, 17359), (113, 17368), (130, 17467), (135, 17488), (138, 17497), (145, 17536), (149, 17557), (150, 17560), (165, 17647), (174, 17701), (179, 17743), (190, 17800), (214, 17932), (218, 17962), (233, 18025),

Gene: Klevey_20 Start: 16216, Stop: 17583, Start Num: 19

Candidate Starts for Klevey_20:
(Start: 19 @16216 has 33 MA's), (33, 16288), (41, 16336), (42, 16345), (51, 16417), (55, 16438), (80, 16603), (95, 16726), (113, 16852), (142, 16999), (179, 17233), (226, 17497), (233, 17527),

Gene: LeeroyJ_21 Start: 17046, Stop: 18386, Start Num: 19
Candidate Starts for LeeroyJ_21:
(Start: 19 @17046 has 33 MA's), (30, 17088), (31, 17103), (33, 17115), (42, 17172), (50, 17223), (74, 17403), (80, 17430), (83, 17442), (87, 17472), (89, 17520), (93, 17550), (102, 17604), (113, 17682), (130, 17781), (138, 17811), (176, 18027), (179, 18048), (214, 18237), (218, 18267), (223, 18291), (226, 18300), (240, 18378),

Gene: Lenoshki_52 Start: 41251, Stop: 42603, Start Num: 24
Candidate Starts for Lenoshki_52:
(9, 41146), (13, 41161), (17, 41206), (Start: 24 @41251 has 14 MA's), (31, 41302), (38, 41353), (40, 41365), (52, 41464), (54, 41479), (56, 41485), (57, 41491), (66, 41548), (69, 41581), (80, 41653), (82, 41662), (88, 41704), (96, 41794), (104, 41848), (111, 41899), (113, 41905), (115, 41920), (124, 41977), (128, 41998), (130, 42004), (132, 42010), (137, 42031), (142, 42052), (143, 42061), (148, 42091), (150, 42097), (195, 42358), (202, 42394), (210, 42448), (215, 42481), (216, 42499), (221, 42526), (229, 42556), (237, 42589),

Gene: Lenoshki_51 Start: 39882, Stop: 41240, Start Num: 23
Candidate Starts for Lenoshki_51:
(Start: 23 @39882 has 14 MA's), (35, 39963), (39, 39987), (40, 39993), (42, 40011), (74, 40251), (77, 40263), (78, 40266), (80, 40278), (94, 40407), (96, 40419), (101, 40455), (105, 40476), (111, 40533), (114, 40551), (121, 40596), (123, 40602), (130, 40638), (133, 40647), (134, 40653), (136, 40662), (147, 40716), (148, 40719), (155, 40749), (160, 40788), (161, 40794), (167, 40821), (173, 40869), (184, 40950), (198, 41001), (207, 41073), (212, 41112), (213, 41115), (216, 41136), (221, 41163), (224, 41169), (232, 41202),

Gene: Lilmac1015_21 Start: 16206, Stop: 17573, Start Num: 19
Candidate Starts for Lilmac1015_21:
(Start: 19 @16206 has 33 MA's), (33, 16278), (41, 16326), (42, 16335), (49, 16371), (51, 16407), (55, 16428), (80, 16593), (95, 16716), (113, 16842), (179, 17223), (226, 17487), (233, 17517),

Gene: Linus_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for Linus_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: Lukepolites_20 Start: 16238, Stop: 17614, Start Num: 22
Candidate Starts for Lukepolites_20:
(Start: 22 @16238 has 27 MA's), (25, 16247), (59, 16475), (62, 16505), (80, 16625), (86, 16661), (107, 16829), (109, 16853), (120, 16925), (125, 16952), (144, 17033), (150, 17063), (170, 17207), (189, 17324), (199, 17381), (218, 17492), (225, 17522), (231, 17546),

Gene: Lymara_24 Start: 19936, Stop: 21279, Start Num: 22
Candidate Starts for Lymara_24:
(Start: 22 @19936 has 27 MA's), (30, 19978), (31, 19993), (34, 20008), (41, 20053), (43, 20068), (47, 20086), (51, 20134), (55, 20155), (58, 20167), (59, 20170), (65, 20209), (67, 20230), (74, 20293), (81,

20323), (82, 20329), (90, 20410), (97, 20461), (99, 20467), (102, 20491), (110, 20560), (113, 20569), (119, 20614), (122, 20629), (130, 20668), (132, 20674), (135, 20689), (138, 20698), (142, 20716), (145, 20737), (156, 20788), (166, 20848), (167, 20851), (174, 20899), (175, 20911), (178, 20935), (185, 20974), (187, 20977), (191, 21001), (204, 21070), (216, 21151), (219, 21163),

Gene: Martha_21 Start: 17008, Stop: 18357, Start Num: 19
Candidate Starts for Martha_21:
(Start: 19 @17008 has 33 MA's), (42, 17134), (50, 17185), (74, 17365), (80, 17392), (83, 17404), (87, 17434), (110, 17635), (113, 17644), (119, 17689), (121, 17701), (138, 17773), (150, 17836), (176, 17998), (179, 18019), (214, 18208), (218, 18238), (223, 18262), (226, 18271),

Gene: Mikronejon_52 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Mikronejon_52:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Mikronejon_51 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Mikronejon_51:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: MintFritos_49 Start: 38203, Stop: 39561, Start Num: 23
Candidate Starts for MintFritos_49:
(Start: 23 @38203 has 14 MA's), (35, 38284), (39, 38308), (40, 38314), (42, 38332), (74, 38572), (78, 38587), (80, 38599), (94, 38728), (96, 38740), (101, 38776), (105, 38797), (111, 38854), (114, 38872), (123, 38923), (130, 38959), (133, 38968), (134, 38974), (136, 38983), (147, 39037), (148, 39040), (155, 39070), (160, 39109), (167, 39142), (173, 39190), (184, 39271), (198, 39322), (207, 39394), (212, 39433), (213, 39436), (216, 39457), (221, 39484), (224, 39490), (232, 39523),

Gene: MintFritos_50 Start: 39572, Stop: 40924, Start Num: 24
Candidate Starts for MintFritos_50:
(9, 39467), (13, 39482), (17, 39527), (Start: 24 @39572 has 14 MA's), (31, 39623), (38, 39674), (40, 39686), (52, 39785), (54, 39800), (56, 39806), (57, 39812), (66, 39869), (69, 39902), (80, 39974), (82, 39983), (88, 40025), (96, 40115), (101, 40151), (104, 40169), (111, 40220), (113, 40226), (115, 40241), (124, 40298), (128, 40319), (130, 40325), (132, 40331), (137, 40352), (142, 40373), (143, 40382), (148, 40412), (150, 40418), (195, 40679), (202, 40715), (210, 40769), (215, 40802), (216, 40820), (221, 40847), (229, 40877), (237, 40910),

Gene: Mordred_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for Mordred_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: MoyaNatalis_24 Start: 19941, Stop: 21284, Start Num: 22
Candidate Starts for MoyaNatalis_24:
(Start: 22 @19941 has 27 MA's), (30, 19983), (34, 20013), (41, 20058), (47, 20091), (55, 20160), (58, 20172), (59, 20175), (65, 20214), (67, 20235), (74, 20298), (81, 20328), (82, 20334), (90, 20415), (102, 20496), (110, 20565), (113, 20574), (119, 20619), (122, 20634), (130, 20673), (132, 20679), (135, 20694), (138, 20703), (142, 20721), (145, 20742), (146, 20748), (150, 20766), (156, 20793), (166, 20853), (167, 20856), (175, 20916), (178, 20940), (185, 20979), (187, 20982), (204, 21075), (205, 21081), (216, 21156), (218, 21165), (219, 21168),

Gene: Music_21 Start: 18995, Stop: 20323, Start Num: 22
Candidate Starts for Music_21:
(Start: 22 @18995 has 27 MA's), (42, 19121), (74, 19352), (80, 19379), (83, 19391), (85, 19409), (110, 19622), (113, 19631), (131, 19733), (138, 19760), (163, 19901), (193, 20054), (225, 20234),

Gene: Nandito_20 Start: 16308, Stop: 17657, Start Num: 19
Candidate Starts for Nandito_20:
(Start: 19 @16308 has 33 MA's), (33, 16380), (42, 16437), (49, 16473), (51, 16509), (55, 16530), (73, 16656), (80, 16695), (99, 16842), (113, 16944), (179, 17307), (226, 17571), (233, 17601),

Gene: NathanVaag_19 Start: 16738, Stop: 18087, Start Num: 19
Candidate Starts for NathanVaag_19:
(7, 16609), (Start: 19 @16738 has 33 MA's), (42, 16864), (50, 16915), (74, 17095), (80, 17122), (83, 17134), (87, 17164), (89, 17212), (91, 17224), (102, 17296), (110, 17365), (113, 17374), (130, 17473), (135, 17494), (138, 17503), (145, 17542), (149, 17563), (165, 17653), (179, 17749), (197, 17827), (214, 17938), (218, 17968), (233, 18031),

Gene: Nostromo_20 Start: 17007, Stop: 18326, Start Num: 18
Candidate Starts for Nostromo_20:
(Start: 18 @17007 has 2 MA's), (41, 17127), (42, 17136), (48, 17166), (50, 17187), (56, 17232), (62, 17274), (67, 17304), (68, 17313), (80, 17394), (83, 17406), (89, 17484), (93, 17514), (129, 17742), (138, 17772), (142, 17790), (171, 17937), (193, 18057), (197, 18066), (218, 18207), (240, 18318),

Gene: Oogie_52 Start: 39908, Stop: 41266, Start Num: 23
Candidate Starts for Oogie_52:
(15, 39845), (Start: 23 @39908 has 14 MA's), (35, 39989), (40, 40019), (42, 40037), (77, 40289), (78, 40292), (80, 40304), (91, 40412), (94, 40433), (96, 40445), (101, 40481), (105, 40502), (111, 40559), (114, 40577), (123, 40628), (130, 40664), (133, 40673), (134, 40679), (136, 40688), (147, 40742), (148, 40745), (155, 40775), (160, 40814), (161, 40820), (167, 40847), (173, 40895), (184, 40976), (198, 41027), (207, 41099), (212, 41138), (213, 41141), (216, 41162), (221, 41189), (224, 41195), (232, 41228),

Gene: Oogie_53 Start: 41277, Stop: 42629, Start Num: 24
Candidate Starts for Oogie_53:
(9, 41172), (13, 41187), (17, 41232), (Start: 24 @41277 has 14 MA's), (31, 41328), (38, 41379), (40, 41391), (52, 41490), (54, 41505), (56, 41511), (57, 41517), (66, 41574), (69, 41607), (80, 41679), (82, 41688), (88, 41730), (96, 41820), (104, 41874), (111, 41925), (113, 41931), (115, 41946), (124, 42003), (128, 42024), (130, 42030), (132, 42036), (137, 42057), (142, 42078), (143, 42087), (148, 42117), (150, 42123), (195, 42384), (202, 42420), (210, 42474), (215, 42507), (216, 42525), (221, 42552), (229, 42582), (237, 42615),

Gene: Orkz_24 Start: 16608, Stop: 17984, Start Num: 22
Candidate Starts for Orkz_24:

(Start: 22 @16608 has 27 MA's), (30, 16650), (33, 16677), (37, 16692), (42, 16734), (43, 16740), (50, 16785), (65, 16881), (67, 16902), (68, 16911), (73, 16953), (74, 16965), (76, 16974), (79, 16986), (80, 16992), (83, 17004), (85, 17022), (89, 17082), (97, 17136), (110, 17235), (119, 17289), (120, 17295), (127, 17331), (132, 17349), (135, 17364), (138, 17373), (142, 17391), (143, 17400), (145, 17412), (147, 17427), (148, 17430), (150, 17436), (163, 17511), (174, 17568), (175, 17580), (179, 17610), (208, 17763), (225, 17856), (226, 17859), (232, 17886), (239, 17922), (243, 17970), (244, 17976),

Gene: Pakusa_50 Start: 39313, Stop: 40665, Start Num: 24
Candidate Starts for Pakusa_50:
(9, 39208), (13, 39223), (17, 39268), (Start: 24 @39313 has 14 MA's), (31, 39364), (38, 39415), (40, 39427), (52, 39526), (54, 39541), (56, 39547), (57, 39553), (66, 39610), (69, 39643), (80, 39715), (82, 39724), (88, 39766), (96, 39856), (101, 39892), (104, 39910), (111, 39961), (113, 39967), (115, 39982), (124, 40039), (128, 40060), (130, 40066), (132, 40072), (137, 40093), (142, 40114), (143, 40123), (148, 40153), (150, 40159), (195, 40420), (202, 40456), (210, 40510), (215, 40543), (216, 40561), (221, 40588), (229, 40618), (237, 40651),

Gene: Pakusa_49 Start: 37944, Stop: 39302, Start Num: 23
Candidate Starts for Pakusa_49:
(Start: 23 @37944 has 14 MA's), (35, 38025), (39, 38049), (40, 38055), (42, 38073), (74, 38313), (78, 38328), (80, 38340), (94, 38469), (96, 38481), (101, 38517), (105, 38538), (111, 38595), (114, 38613), (123, 38664), (130, 38700), (133, 38709), (134, 38715), (136, 38724), (147, 38778), (148, 38781), (155, 38811), (160, 38850), (167, 38883), (173, 38931), (184, 39012), (198, 39063), (207, 39135), (212, 39174), (213, 39177), (216, 39198), (221, 39225), (224, 39231), (232, 39264),

Gene: Piccoletto_19 Start: 16738, Stop: 18087, Start Num: 19
Candidate Starts for Piccoletto_19:
(7, 16609), (Start: 19 @16738 has 33 MA's), (42, 16864), (50, 16915), (74, 17095), (80, 17122), (83, 17134), (87, 17164), (89, 17212), (91, 17224), (110, 17365), (113, 17374), (130, 17473), (135, 17494), (138, 17503), (145, 17542), (149, 17563), (165, 17653), (179, 17749), (190, 17806), (214, 17938), (218, 17968), (223, 17992), (233, 18031),

Gene: Pippa_21 Start: 17099, Stop: 18454, Start Num: 19
Candidate Starts for Pippa_21:
(Start: 19 @17099 has 33 MA's), (42, 17228), (50, 17279), (64, 17372), (74, 17459), (80, 17486), (83, 17498), (87, 17528), (110, 17729), (113, 17738), (120, 17789), (138, 17867), (176, 18095), (179, 18116), (197, 18194), (214, 18305), (218, 18335), (223, 18359), (233, 18398),

Gene: Prairie_20 Start: 16213, Stop: 17580, Start Num: 19
Candidate Starts for Prairie_20:
(Start: 19 @16213 has 33 MA's), (33, 16285), (41, 16333), (42, 16342), (51, 16414), (55, 16435), (67, 16510), (80, 16600), (95, 16723), (113, 16849), (179, 17230), (226, 17494), (233, 17524),

Gene: PrincessTrina_24 Start: 19941, Stop: 21284, Start Num: 22
Candidate Starts for PrincessTrina_24:
(Start: 22 @19941 has 27 MA's), (30, 19983), (41, 20058), (47, 20091), (55, 20160), (58, 20172), (59, 20175), (65, 20214), (67, 20235), (74, 20298), (81, 20328), (82, 20334), (90, 20415), (102, 20496), (110, 20565), (113, 20574), (119, 20619), (122, 20634), (130, 20673), (132, 20679), (135, 20694), (138, 20703), (142, 20721), (145, 20742), (146, 20748), (150, 20766), (156, 20793), (166, 20853), (167, 20856), (174, 20904), (175, 20916), (178, 20940), (185, 20979), (187, 20982), (204, 21075), (205, 21081), (216, 21156), (218, 21165), (219, 21168),

Gene: RosiePosie_24 Start: 19941, Stop: 21284, Start Num: 22
Candidate Starts for RosiePosie_24:

(Start: 22 @19941 has 27 MA's), (30, 19983), (34, 20013), (41, 20058), (47, 20091), (55, 20160), (58, 20172), (59, 20175), (65, 20214), (67, 20235), (74, 20298), (81, 20328), (82, 20334), (90, 20415), (102, 20496), (110, 20565), (113, 20574), (119, 20619), (122, 20634), (130, 20673), (132, 20679), (135, 20694), (138, 20703), (142, 20721), (145, 20742), (146, 20748), (150, 20766), (156, 20793), (166, 20853), (167, 20856), (175, 20916), (178, 20940), (185, 20979), (187, 20982), (204, 21075), (205, 21081), (216, 21156), (218, 21165), (219, 21168),

Gene: ScarletRaider_50 Start: 41084, Stop: 42448, Start Num: 23
Candidate Starts for ScarletRaider_50:
(Start: 23 @41084 has 14 MA's), (35, 41165), (40, 41195), (42, 41213), (45, 41225), (68, 41399), (69, 41408), (74, 41453), (77, 41465), (80, 41480), (94, 41609), (96, 41621), (101, 41657), (105, 41678), (111, 41735), (132, 41846), (133, 41849), (134, 41855), (136, 41864), (154, 41948), (160, 41990), (167, 42029), (173, 42077), (184, 42158), (198, 42209), (206, 42269), (207, 42281), (212, 42320), (213, 42323), (216, 42344), (232, 42410),

Gene: ScarletRaider_51 Start: 42459, Stop: 43811, Start Num: 24
Candidate Starts for ScarletRaider_51:
(9, 42354), (17, 42414), (Start: 24 @42459 has 14 MA's), (32, 42528), (38, 42561), (52, 42672), (54, 42687), (57, 42699), (66, 42756), (69, 42789), (80, 42861), (87, 42903), (96, 43002), (106, 43065), (111, 43107), (113, 43113), (115, 43128), (124, 43185), (128, 43206), (130, 43212), (137, 43239), (141, 43257), (142, 43260), (143, 43269), (181, 43512), (195, 43566), (203, 43617), (210, 43656), (214, 43686), (215, 43689), (216, 43707), (221, 43734), (237, 43797),

Gene: Scavito_24 Start: 19938, Stop: 21281, Start Num: 22
Candidate Starts for Scavito_24:
(Start: 22 @19938 has 27 MA's), (30, 19980), (41, 20055), (47, 20088), (55, 20157), (58, 20169), (59, 20172), (65, 20211), (67, 20232), (74, 20295), (81, 20325), (82, 20331), (90, 20412), (102, 20493), (110, 20562), (113, 20571), (119, 20616), (122, 20631), (130, 20670), (132, 20676), (135, 20691), (138, 20700), (142, 20718), (145, 20739), (146, 20745), (150, 20763), (156, 20790), (166, 20850), (167, 20853), (174, 20901), (175, 20913), (178, 20937), (185, 20976), (187, 20979), (204, 21072), (205, 21078), (216, 21153), (218, 21162), (219, 21165),

Gene: Schomber_51 Start: 39321, Stop: 40673, Start Num: 24
Candidate Starts for Schomber_51:
(9, 39216), (13, 39231), (17, 39276), (Start: 24 @39321 has 14 MA's), (31, 39372), (38, 39423), (40, 39435), (52, 39534), (54, 39549), (56, 39555), (57, 39561), (66, 39618), (69, 39651), (80, 39723), (82, 39732), (88, 39774), (96, 39864), (101, 39900), (104, 39918), (111, 39969), (113, 39975), (115, 39990), (124, 40047), (128, 40068), (130, 40074), (132, 40080), (137, 40101), (142, 40122), (143, 40131), (148, 40161), (150, 40167), (195, 40428), (202, 40464), (210, 40518), (215, 40551), (216, 40569), (221, 40596), (229, 40626), (237, 40659),

Gene: Schomber_50 Start: 37952, Stop: 39310, Start Num: 23
Candidate Starts for Schomber_50:
(Start: 23 @37952 has 14 MA's), (35, 38033), (39, 38057), (40, 38063), (42, 38081), (74, 38321), (78, 38336), (80, 38348), (94, 38477), (96, 38489), (101, 38525), (105, 38546), (111, 38603), (114, 38621), (123, 38672), (130, 38708), (133, 38717), (134, 38723), (136, 38732), (147, 38786), (148, 38789), (155, 38819), (160, 38858), (167, 38891), (173, 38939), (184, 39020), (198, 39071), (207, 39143), (212, 39182), (213, 39185), (216, 39206), (221, 39233), (224, 39239), (232, 39272),

Gene: Shade_21 Start: 17046, Stop: 18395, Start Num: 19
Candidate Starts for Shade_21:
(3, 16785), (Start: 19 @17046 has 33 MA's), (42, 17172), (50, 17223), (74, 17403), (80, 17430), (83, 17442), (87, 17472), (110, 17673), (113, 17682), (119, 17727), (121, 17739), (138, 17811), (150,

17874), (176, 18036), (179, 18057), (214, 18246), (218, 18276), (223, 18300), (226, 18309),

Gene: Sicarius2_22 Start: 17553, Stop: 18878, Start Num: 19
Candidate Starts for Sicarius2_22:
(1, 17214), (2, 17217), (3, 17292), (Start: 19 @17553 has 33 MA's), (33, 17622), (41, 17670), (42, 17679), (50, 17730), (67, 17847), (73, 17898), (74, 17910), (80, 17937), (83, 17949), (87, 17979), (92, 18051), (113, 18189), (130, 18288), (138, 18318), (139, 18327), (142, 18336), (150, 18381), (176, 18519), (190, 18597), (214, 18729), (217, 18756), (218, 18759), (226, 18792), (240, 18870),

Gene: Sonny_21 Start: 17067, Stop: 18416, Start Num: 19
Candidate Starts for Sonny_21:
(3, 16806), (Start: 19 @17067 has 33 MA's), (42, 17193), (50, 17244), (74, 17424), (80, 17451), (83, 17463), (87, 17493), (110, 17694), (113, 17703), (119, 17748), (121, 17760), (138, 17832), (150, 17895), (176, 18057), (179, 18078), (214, 18267), (218, 18297), (223, 18321), (226, 18330),

Gene: StevieBAY_21 Start: 17046, Stop: 18386, Start Num: 19
Candidate Starts for StevieBAY_21:
(Start: 19 @17046 has 33 MA's), (30, 17088), (31, 17103), (33, 17115), (42, 17172), (50, 17223), (74, 17403), (80, 17430), (83, 17442), (87, 17472), (89, 17520), (93, 17550), (102, 17604), (113, 17682), (130, 17781), (138, 17811), (176, 18027), (179, 18048), (214, 18237), (218, 18267), (223, 18291), (226, 18300), (240, 18378),

Gene: SunnyJune_22 Start: 18336, Stop: 19715, Start Num: 22
Candidate Starts for SunnyJune_22:
(12, 18258), (Start: 22 @18336 has 27 MA's), (30, 18378), (31, 18393), (42, 18462), (50, 18513), (56, 18558), (59, 18570), (63, 18603), (68, 18639), (76, 18702), (80, 18720), (83, 18732), (93, 18840), (102, 18894), (108, 18945), (113, 18972), (131, 19074), (135, 19092), (138, 19101), (145, 19140), (150, 19164), (164, 19242), (176, 19323), (179, 19344), (191, 19404), (208, 19494), (226, 19590), (235, 19626), (241, 19671), (243, 19701), (244, 19707), (245, 19710),

Gene: TaeYoung_21 Start: 17071, Stop: 18420, Start Num: 19
Candidate Starts for TaeYoung_21:
(Start: 19 @17071 has 33 MA's), (42, 17197), (50, 17248), (74, 17428), (80, 17455), (83, 17467), (87, 17497), (110, 17698), (113, 17707), (119, 17752), (121, 17764), (138, 17836), (150, 17899), (176, 18061), (179, 18082), (214, 18271), (218, 18301), (223, 18325), (226, 18334),

Gene: Thales_45 Start: 40158, Stop: 41489, Start Num: 21
Candidate Starts for Thales_45:
(Start: 21 @40158 has 1 MA's), (27, 40182), (28, 40188), (29, 40191), (38, 40254), (42, 40284), (45, 40296), (53, 40377), (68, 40470), (69, 40479), (71, 40491), (74, 40524), (77, 40536), (78, 40539), (80, 40551), (88, 40602), (106, 40752), (111, 40785), (112, 40788), (116, 40809), (117, 40818), (121, 40848), (123, 40854), (128, 40884), (140, 40926), (142, 40932), (147, 40968), (150, 40977), (157, 41010), (180, 41181), (182, 41193), (184, 41199), (192, 41229), (198, 41250), (200, 41271), (207, 41322), (212, 41361), (213, 41364), (216, 41385), (221, 41412), (224, 41418), (232, 41451), (236, 41463),

Gene: Timinator_21 Start: 17046, Stop: 18386, Start Num: 19
Candidate Starts for Timinator_21:
(Start: 19 @17046 has 33 MA's), (30, 17088), (31, 17103), (33, 17115), (42, 17172), (50, 17223), (74, 17403), (80, 17430), (83, 17442), (87, 17472), (89, 17520), (93, 17550), (102, 17604), (113, 17682), (130, 17781), (138, 17811), (176, 18027), (179, 18048), (214, 18237), (218, 18267), (223, 18291), (226, 18300), (240, 18378),

Gene: Toneprano_49 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Toneprano_49:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (77, 38583), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Toneprano_50 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Toneprano_50:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: Tophat_24 Start: 19940, Stop: 21283, Start Num: 22
Candidate Starts for Tophat_24:
(Start: 22 @19940 has 27 MA's), (30, 19982), (34, 20012), (41, 20057), (47, 20090), (55, 20159), (58, 20171), (59, 20174), (65, 20213), (67, 20234), (74, 20297), (81, 20327), (82, 20333), (90, 20414), (102, 20495), (110, 20564), (113, 20573), (119, 20618), (122, 20633), (130, 20672), (132, 20678), (135, 20693), (138, 20702), (142, 20720), (145, 20741), (146, 20747), (150, 20765), (156, 20792), (166, 20852), (167, 20855), (174, 20903), (175, 20915), (178, 20939), (185, 20978), (187, 20981), (204, 21074), (205, 21080), (216, 21155), (218, 21164), (219, 21167),

Gene: Twin_49 Start: 38202, Stop: 39560, Start Num: 23
Candidate Starts for Twin_49:
(Start: 23 @38202 has 14 MA's), (35, 38283), (39, 38307), (40, 38313), (42, 38331), (74, 38571), (78, 38586), (80, 38598), (94, 38727), (96, 38739), (101, 38775), (105, 38796), (111, 38853), (114, 38871), (123, 38922), (130, 38958), (133, 38967), (134, 38973), (136, 38982), (147, 39036), (148, 39039), (155, 39069), (160, 39108), (167, 39141), (173, 39189), (184, 39270), (198, 39321), (207, 39393), (212, 39432), (213, 39435), (216, 39456), (221, 39483), (224, 39489), (232, 39522),

Gene: Twin_50 Start: 39571, Stop: 40923, Start Num: 24
Candidate Starts for Twin_50:
(9, 39466), (13, 39481), (17, 39526), (Start: 24 @39571 has 14 MA's), (31, 39622), (38, 39673), (40, 39685), (52, 39784), (54, 39799), (56, 39805), (57, 39811), (66, 39868), (69, 39901), (80, 39973), (82, 39982), (88, 40024), (96, 40114), (101, 40150), (104, 40168), (111, 40219), (113, 40225), (115, 40240), (124, 40297), (128, 40318), (130, 40324), (132, 40330), (137, 40351), (142, 40372), (143, 40381), (148, 40411), (150, 40417), (195, 40678), (202, 40714), (210, 40768), (215, 40801), (216, 40819), (221, 40846), (229, 40876), (237, 40909),

Gene: UBSmoodge_54 Start: 42917, Stop: 44269, Start Num: 24
Candidate Starts for UBSmoodge_54:
(9, 42812), (17, 42872), (Start: 24 @42917 has 14 MA's), (32, 42986), (38, 43019), (52, 43130), (54, 43145), (57, 43157), (66, 43214), (69, 43247), (80, 43319), (87, 43361), (96, 43460), (106, 43523), (111, 43565), (113, 43571), (115, 43586), (124, 43643), (128, 43664), (130, 43670), (137, 43697), (141, 43715), (142, 43718), (143, 43727), (181, 43970), (195, 44024), (203, 44075), (210, 44114), (214, 44144), (215, 44147), (216, 44165), (221, 44192), (237, 44255),

Gene: UBSmoodge_53 Start: 41542, Stop: 42906, Start Num: 23
Candidate Starts for UBSmoodge_53:

(Start: 23 @41542 has 14 MA's), (35, 41623), (40, 41653), (42, 41671), (45, 41683), (69, 41866), (74, 41911), (77, 41923), (80, 41938), (94, 42067), (96, 42079), (101, 42115), (105, 42136), (111, 42193), (132, 42304), (133, 42307), (134, 42313), (136, 42322), (154, 42406), (160, 42448), (167, 42487), (173, 42535), (184, 42616), (198, 42667), (206, 42727), (207, 42739), (212, 42778), (213, 42781), (216, 42802), (232, 42868),

Gene: Vibaki_21 Start: 19008, Stop: 20336, Start Num: 22
Candidate Starts for Vibaki_21:
(Start: 22 @19008 has 27 MA's), (42, 19134), (74, 19365), (80, 19392), (83, 19404), (85, 19422), (110, 19635), (113, 19644), (131, 19746), (138, 19773), (163, 19914), (193, 20067), (225, 20247),

Gene: Vitus_21 Start: 18163, Stop: 19476, Start Num: 22
Candidate Starts for Vitus_21:
(Start: 22 @18163 has 27 MA's), (26, 18175), (30, 18205), (35, 18241), (40, 18271), (41, 18280), (42, 18289), (51, 18361), (55, 18382), (80, 18547), (83, 18559), (97, 18691), (113, 18799), (119, 18844), (138, 18928), (163, 19057), (188, 19180), (190, 19198), (218, 19357), (226, 19390), (233, 19420), (237, 19441),

Gene: Wyborn_22 Start: 17414, Stop: 18736, Start Num: 19
Candidate Starts for Wyborn_22:
(Start: 19 @17414 has 33 MA's), (33, 17483), (42, 17540), (50, 17591), (67, 17708), (73, 17759), (74, 17771), (80, 17798), (83, 17810), (87, 17840), (92, 17912), (113, 18050), (130, 18149), (138, 18179), (139, 18188), (142, 18197), (150, 18242), (176, 18377), (190, 18455), (214, 18587), (217, 18614), (218, 18617), (226, 18650), (240, 18728),

Gene: Zartrosa_21 Start: 17070, Stop: 18419, Start Num: 19
Candidate Starts for Zartrosa_21:
(3, 16809), (Start: 19 @17070 has 33 MA's), (42, 17196), (50, 17247), (74, 17427), (80, 17454), (87, 17496), (110, 17697), (113, 17706), (119, 17751), (121, 17763), (138, 17835), (150, 17898), (176, 18060), (179, 18081), (214, 18270), (218, 18300), (223, 18324), (226, 18333),