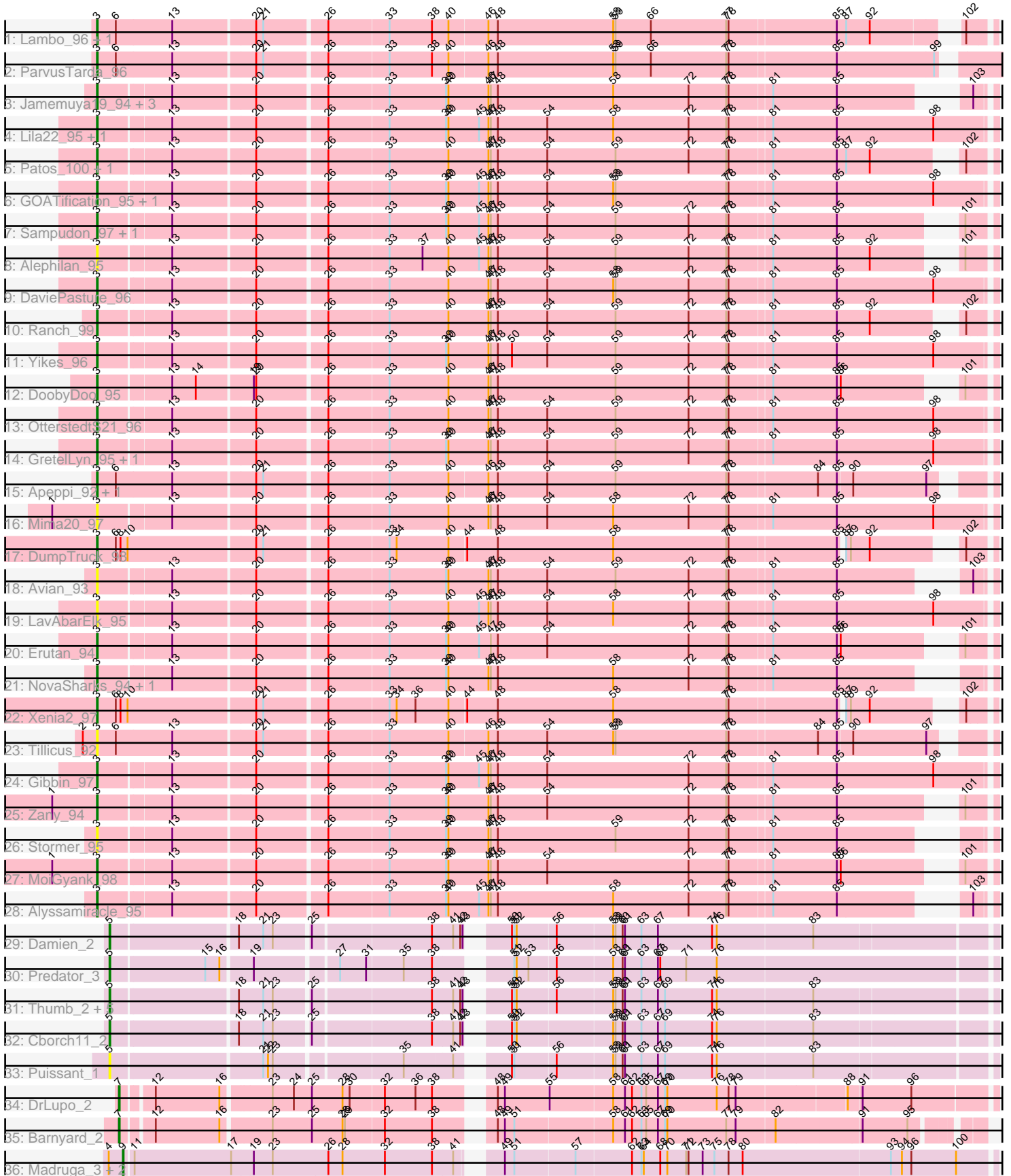


Zoomed Pham 223184



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 223184 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223184 has 54 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Lambo_96, Wojtek_88
- Track 2 : ParvusTarda_96
- Track 3 : Jamemuya19_94, Genamy16_95, Astralis_94, RazorC_93
- Track 4 : Lila22_95, BirthdayBoy_97
- Track 5 : Patos_100, NorManre_100
- Track 6 : GOATification_95, Fulcrum_95
- Track 7 : Sampudon_97, Jalebi_95
- Track 8 : Alephilan_95
- Track 9 : DaviePasture_96
- Track 10 : Ranch_99
- Track 11 : Yikes_96
- Track 12 : DoobyDoo_95
- Track 13 : OtterstedtS21_96
- Track 14 : GretelLyn_95, Sadboi_95
- Track 15 : Apeppi_92, LuckyLeo_94
- Track 16 : Mima20_97
- Track 17 : DumpTruck_98
- Track 18 : Avian_93
- Track 19 : LavAbarElk_95
- Track 20 : Erutan_94
- Track 21 : NovaSharks_94, Rumi_93
- Track 22 : Xenia2_97
- Track 23 : Tillicus_92
- Track 24 : Gibbin_97
- Track 25 : Zany_94
- Track 26 : Stormer_95
- Track 27 : MoiGyank_98
- Track 28 : Alyssamiracle_95
- Track 29 : Damien_2
- Track 30 : Predator_3
- Track 31 : Thumb_2, Beckerton_2, Phreeze_2, Oaker_2, Megatron06_2, Konstantine_2
- Track 32 : Cborch11_2
- Track 33 : Puissant_1
- Track 34 : DrLupo_2
- Track 35 : Barnyard_2
- Track 36 : Madruga_3, Patience_3, Labelle_3

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

The start number called the most often in the published annotations is 3, it was called in 30 of the 44 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan_95, Alyssamiracle_95, Apeppi_92, Astralis_94, Avian_93, BirthdayBoy_97, DaviePasture_96, DoobyDoo_95, DumpTruck_98, Erutan_94, Fulcrum_95, GOATification_95, Genamy16_95, Gibbin_97, GretelLyn_95, Jalebi_95, Jamemuya19_94, Lambo_96, LavAbarElk_95, Lila22_95, LuckyLeo_94, Mima20_97, MoiGyank_98, NorManre_100, NovaSharks_94, OtterstedtS21_96, ParvusTarda_96, Patos_100, Ranch_99, RazorC_93, Rumi_93, Sadboi_95, Sampudon_97, Stormer_95, Tillicus_92, Wojtek_88, Xenia2_97, Yikes_96, Zany_94,

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

-

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

- Barnyard_2, Beckerton_2, Cborch11_2, Damien_2, DrLupo_2, Konstantine_2, Labelle_3, Madrugua_3, Megatron06_2, Oaker_2, Patience_3, Phreeze_2, Predator_3, Puissant_1, Thumb_2,

Summary by start number:

Start 3:

- Found in 39 of 54 (72.2%) of genes in pham
- Manual Annotations of this start: 30 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan_95 (DV), Alyssamiracle_95 (DV), Apeppi_92 (DV), Astralis_94 (DV), Avian_93 (DV), BirthdayBoy_97 (DV), DaviePasture_96 (DV), DoobyDoo_95 (DV), DumpTruck_98 (DV), Erutan_94 (DV), Fulcrum_95 (DV), GOATification_95 (DV), Genamy16_95 (DV), Gibbin_97 (DV), GretelLyn_95 (DV), Jalebi_95 (DV), Jamemuya19_94 (DV), Lambo_96 (DV), LavAbarElk_95 (DV), Lila22_95 (DV), LuckyLeo_94 (DV), Mima20_97 (DV), MoiGyank_98 (DV), NorManre_100 (DV), NovaSharks_94 (DV), OtterstedtS21_96 (DV), ParvusTarda_96 (DV), Patos_100 (DV), Ranch_99 (DV), RazorC_93 (DV), Rumi_93 (DV), Sadboi_95 (DV), Sampudon_97 (DV), Stormer_95 (DV), Tillicus_92 (DV), Wojtek_88 (DV), Xenia2_97 (DV), Yikes_96 (DV), Zany_94 (DV),

Start 5:

- Found in 10 of 54 (18.5%) of genes in pham
- Manual Annotations of this start: 9 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_2 (H1), Cborch11_2 (H1), Damien_2 (H1), Konstantine_2 (H1), Megatron06_2 (H1), Oaker_2 (H1), Phreeze_2 (H1), Predator_3 (H1), Puissant_1 (H1), Thumb_2 (H1),

Start 7:

- Found in 2 of 54 (3.7%) of genes in pham

- Manual Annotations of this start: 2 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_2 (H2), DrLupo_2 (H2),

Start 9:

- Found in 3 of 54 (5.6%) of genes in pham
- Manual Annotations of this start: 3 of 44
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle_3 (U), Madrugua_3 (U), Patience_3 (U),

Summary by clusters:

There are 4 clusters represented in this pham: DV, H2, H1, U,

Info for manual annotations of cluster DV:

- Start number 3 was manually annotated 30 times for cluster DV.

Info for manual annotations of cluster H1:

- Start number 5 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 7 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster U:

- Start number 9 was manually annotated 3 times for cluster U.

Gene Information:

Gene: Alephilan_95 Start: 65669, Stop: 66970, Start Num: 3

Candidate Starts for Alephilan_95:

(Start: 3 @65669 has 30 MA's), (13, 65756), (20, 65855), (26, 65939), (33, 66014), (37, 66056), (40, 66089), (45, 66128), (46, 66140), (47, 66143), (48, 66152), (54, 66215), (59, 66302), (72, 66395), (77, 66443), (78, 66446), (81, 66497), (85, 66578), (92, 66617), (101, 66692), (114, 66866),

Gene: Alyssamiracle_95 Start: 63627, Stop: 64913, Start Num: 3

Candidate Starts for Alyssamiracle_95:

(Start: 3 @63627 has 30 MA's), (13, 63714), (20, 63813), (26, 63897), (33, 63972), (39, 64044), (40, 64047), (45, 64086), (46, 64098), (47, 64101), (48, 64110), (58, 64257), (72, 64353), (77, 64401), (78, 64404), (81, 64455), (85, 64536), (103, 64647), (114, 64809),

Gene: Apeppi_92 Start: 65297, Stop: 66625, Start Num: 3

Candidate Starts for Apeppi_92:

(Start: 3 @65297 has 30 MA's), (6, 65321), (13, 65390), (20, 65489), (21, 65498), (26, 65573), (33, 65648), (40, 65723), (46, 65771), (48, 65783), (54, 65846), (59, 65933), (77, 66074), (78, 66077), (84, 66185), (85, 66209), (90, 66227), (97, 66320), (104, 66389), (114, 66521), (120, 66566),

Gene: Astralis_94 Start: 63154, Stop: 64440, Start Num: 3

Candidate Starts for Astralis_94:

(Start: 3 @63154 has 30 MA's), (13, 63241), (20, 63340), (26, 63424), (33, 63499), (39, 63571), (40, 63574), (46, 63625), (47, 63628), (48, 63637), (58, 63784), (72, 63880), (77, 63928), (78, 63931), (81,

63982), (85, 64063), (103, 64174), (114, 64336),

Gene: Avian_93 Start: 63389, Stop: 64675, Start Num: 3

Candidate Starts for Avian_93:

(Start: 3 @63389 has 30 MA's), (13, 63476), (20, 63575), (26, 63659), (33, 63734), (39, 63806), (40, 63809), (46, 63860), (47, 63863), (48, 63872), (54, 63935), (59, 64022), (72, 64115), (77, 64163), (78, 64166), (81, 64217), (85, 64298), (103, 64409), (114, 64571),

Gene: Barnyard_2 Start: 356, Stop: 1642, Start Num: 7

Candidate Starts for Barnyard_2:

(Start: 7 @356 has 2 MA's), (12, 389), (16, 470), (23, 527), (25, 575), (28, 614), (29, 617), (32, 665), (38, 725), (48, 779), (49, 788), (51, 800), (58, 920), (61, 935), (62, 944), (63, 956), (65, 962), (67, 977), (69, 986), (70, 989), (77, 1064), (79, 1076), (82, 1124), (91, 1226), (95, 1280), (113, 1493), (117, 1514), (118, 1532),

Gene: Beckerton_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Beckerton_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: BirthdayBoy_97 Start: 65681, Stop: 67027, Start Num: 3

Candidate Starts for BirthdayBoy_97:

(Start: 3 @65681 has 30 MA's), (13, 65768), (20, 65867), (26, 65951), (33, 66026), (39, 66098), (40, 66101), (45, 66140), (46, 66152), (47, 66155), (48, 66164), (54, 66227), (58, 66311), (72, 66407), (77, 66455), (78, 66458), (81, 66509), (85, 66590), (98, 66710), (114, 66923),

Gene: Cborch11_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Cborch11_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: Damien_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Damien_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: DaviePasture_96 Start: 65655, Stop: 67001, Start Num: 3

Candidate Starts for DaviePasture_96:

(Start: 3 @65655 has 30 MA's), (13, 65742), (20, 65841), (26, 65925), (33, 66000), (40, 66075), (46, 66126), (47, 66129), (48, 66138), (54, 66201), (58, 66285), (59, 66288), (72, 66381), (77, 66429), (78, 66432), (81, 66483), (85, 66564), (98, 66684), (114, 66897),

Gene: DoobyDoo_95 Start: 64434, Stop: 65735, Start Num: 3

Candidate Starts for DoobyDoo_95:

(Start: 3 @64434 has 30 MA's), (13, 64521), (14, 64551), (19, 64617), (20, 64620), (26, 64704), (33, 64779), (40, 64854), (46, 64905), (47, 64908), (48, 64917), (59, 65067), (72, 65160), (77, 65208), (78, 65211), (81, 65262), (85, 65343), (86, 65346), (101, 65457), (114, 65631),

Gene: DrLupo_2 Start: 334, Stop: 1617, Start Num: 7

Candidate Starts for DrLupo_2:

(Start: 7 @334 has 2 MA's), (12, 367), (16, 448), (23, 505), (24, 532), (25, 553), (28, 592), (30, 601), (32, 643), (36, 682), (38, 703), (48, 757), (49, 766), (55, 820), (58, 898), (61, 913), (62, 922), (63, 934), (65, 940), (67, 955), (69, 964), (70, 967), (76, 1030), (78, 1045), (79, 1054), (88, 1183), (91, 1198), (96, 1258), (106, 1402), (116, 1513), (120, 1534),

Gene: DumpTruck_98 Start: 65883, Stop: 67190, Start Num: 3

Candidate Starts for DumpTruck_98:

(Start: 3 @65883 has 30 MA's), (6, 65907), (8, 65913), (10, 65922), (20, 66078), (21, 66087), (26, 66162), (33, 66237), (34, 66246), (40, 66312), (44, 66333), (48, 66372), (58, 66519), (77, 66663), (78, 66666), (85, 66798), (87, 66801), (89, 66807), (92, 66831), (102, 66918), (109, 67053), (112, 67077), (115, 67098), (119, 67125),

Gene: Erutan_94 Start: 65045, Stop: 66346, Start Num: 3

Candidate Starts for Erutan_94:

(Start: 3 @65045 has 30 MA's), (13, 65132), (20, 65231), (26, 65315), (33, 65390), (39, 65462), (40, 65465), (45, 65504), (47, 65519), (48, 65528), (54, 65591), (72, 65771), (77, 65819), (78, 65822), (81, 65873), (85, 65954), (86, 65957), (101, 66068), (114, 66242),

Gene: Fulcrum_95 Start: 65648, Stop: 66994, Start Num: 3

Candidate Starts for Fulcrum_95:

(Start: 3 @65648 has 30 MA's), (13, 65735), (20, 65834), (26, 65918), (33, 65993), (39, 66065), (40, 66068), (45, 66107), (46, 66119), (47, 66122), (48, 66131), (54, 66194), (58, 66278), (59, 66281), (77, 66422), (78, 66425), (81, 66476), (85, 66557), (98, 66677), (114, 66890),

Gene: GOATification_95 Start: 65648, Stop: 66994, Start Num: 3

Candidate Starts for GOATification_95:

(Start: 3 @65648 has 30 MA's), (13, 65735), (20, 65834), (26, 65918), (33, 65993), (39, 66065), (40, 66068), (45, 66107), (46, 66119), (47, 66122), (48, 66131), (54, 66194), (58, 66278), (59, 66281), (77, 66422), (78, 66425), (81, 66476), (85, 66557), (98, 66677), (114, 66890),

Gene: Genamy16_95 Start: 63676, Stop: 64962, Start Num: 3

Candidate Starts for Genamy16_95:

(Start: 3 @63676 has 30 MA's), (13, 63763), (20, 63862), (26, 63946), (33, 64021), (39, 64093), (40, 64096), (46, 64147), (47, 64150), (48, 64159), (58, 64306), (72, 64402), (77, 64450), (78, 64453), (81, 64504), (85, 64585), (103, 64696), (114, 64858),

Gene: Gibbin_97 Start: 65825, Stop: 67171, Start Num: 3

Candidate Starts for Gibbin_97:

(Start: 3 @65825 has 30 MA's), (13, 65912), (20, 66011), (26, 66095), (33, 66170), (39, 66242), (40, 66245), (45, 66284), (46, 66296), (47, 66299), (48, 66308), (54, 66371), (72, 66551), (77, 66599), (78, 66602), (81, 66653), (85, 66734), (98, 66854), (114, 67067),

Gene: Gretellyn_95 Start: 65652, Stop: 66998, Start Num: 3

Candidate Starts for Gretellyn_95:

(Start: 3 @65652 has 30 MA's), (13, 65739), (20, 65838), (26, 65922), (33, 65997), (39, 66069), (40, 66072), (46, 66123), (47, 66126), (48, 66135), (54, 66198), (59, 66285), (72, 66378), (77, 66426), (78, 66429), (81, 66480), (85, 66561), (98, 66681), (114, 66894),

Gene: Jalebi_95 Start: 66593, Stop: 67894, Start Num: 3

Candidate Starts for Jalebi_95:

(Start: 3 @66593 has 30 MA's), (13, 66680), (20, 66779), (26, 66863), (33, 66938), (39, 67010), (40, 67013), (45, 67052), (46, 67064), (47, 67067), (48, 67076), (54, 67139), (59, 67226), (72, 67319), (77, 67367), (78, 67370), (81, 67421), (85, 67502), (101, 67616), (114, 67790),

Gene: Jamemuya19_94 Start: 63301, Stop: 64587, Start Num: 3

Candidate Starts for Jamemuya19_94:

(Start: 3 @63301 has 30 MA's), (13, 63388), (20, 63487), (26, 63571), (33, 63646), (39, 63718), (40, 63721), (46, 63772), (47, 63775), (48, 63784), (58, 63931), (72, 64027), (77, 64075), (78, 64078), (81, 64129), (85, 64210), (103, 64321), (114, 64483),

Gene: Konstantine_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Konstantine_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: Labelle_3 Start: 668, Stop: 2029, Start Num: 9

Candidate Starts for Labelle_3:

(4, 650), (Start: 9 @668 has 3 MA's), (11, 677), (17, 800), (19, 827), (23, 851), (26, 920), (28, 938), (32, 992), (38, 1052), (41, 1076), (49, 1109), (51, 1121), (57, 1196), (62, 1265), (63, 1277), (64, 1280), (68, 1301), (70, 1310), (71, 1334), (72, 1337), (73, 1355), (75, 1370), (78, 1388), (80, 1406), (93, 1592), (94, 1604), (96, 1616), (100, 1673), (113, 1853), (118, 1904), (121, 1943), (122, 1952), (123, 1997),

Gene: Lambo_96 Start: 65885, Stop: 67201, Start Num: 3

Candidate Starts for Lambo_96:

(Start: 3 @65885 has 30 MA's), (6, 65909), (13, 65978), (20, 66077), (21, 66086), (26, 66161), (33, 66236), (38, 66290), (40, 66311), (46, 66359), (48, 66371), (58, 66518), (59, 66521), (66, 66566), (77, 66662), (78, 66665), (85, 66797), (87, 66809), (92, 66839), (102, 66926), (114, 67097),

Gene: LavAbarElk_95 Start: 64771, Stop: 66117, Start Num: 3

Candidate Starts for LavAbarElk_95:

(Start: 3 @64771 has 30 MA's), (13, 64858), (20, 64957), (26, 65041), (33, 65116), (40, 65191), (45, 65230), (46, 65242), (47, 65245), (48, 65254), (54, 65317), (58, 65401), (72, 65497), (77, 65545), (78, 65548), (81, 65599), (85, 65680), (98, 65800), (114, 66013),

Gene: Lila22_95 Start: 65625, Stop: 66971, Start Num: 3

Candidate Starts for Lila22_95:

(Start: 3 @65625 has 30 MA's), (13, 65712), (20, 65811), (26, 65895), (33, 65970), (39, 66042), (40, 66045), (45, 66084), (46, 66096), (47, 66099), (48, 66108), (54, 66171), (58, 66255), (72, 66351), (77, 66399), (78, 66402), (81, 66453), (85, 66534), (98, 66654), (114, 66867),

Gene: LuckyLeo_94 Start: 65297, Stop: 66625, Start Num: 3

Candidate Starts for LuckyLeo_94:

(Start: 3 @65297 has 30 MA's), (6, 65321), (13, 65390), (20, 65489), (21, 65498), (26, 65573), (33, 65648), (40, 65723), (46, 65771), (48, 65783), (54, 65846), (59, 65933), (77, 66074), (78, 66077), (84, 66185), (85, 66209), (90, 66227), (97, 66320), (104, 66389), (114, 66521), (120, 66566),

Gene: Madruga_3 Start: 668, Stop: 2029, Start Num: 9

Candidate Starts for Madruga_3:

(4, 650), (Start: 9 @668 has 3 MA's), (11, 677), (17, 800), (19, 827), (23, 851), (26, 920), (28, 938), (32, 992), (38, 1052), (41, 1076), (49, 1109), (51, 1121), (57, 1196), (62, 1265), (63, 1277), (64, 1280), (68, 1301), (70, 1310), (71, 1334), (72, 1337), (73, 1355), (75, 1370), (78, 1388), (80, 1406), (93, 1592), (94, 1604), (96, 1616), (100, 1673), (113, 1853), (118, 1904), (121, 1943), (122, 1952), (123, 1997),

Gene: Megatron06_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Megatron06_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: Mima20_97 Start: 65382, Stop: 66728, Start Num: 3

Candidate Starts for Mima20_97:

(1, 65325), (Start: 3 @65382 has 30 MA's), (13, 65469), (20, 65568), (26, 65652), (33, 65727), (40, 65802), (46, 65853), (47, 65856), (48, 65865), (54, 65928), (58, 66012), (72, 66108), (77, 66156), (78, 66159), (81, 66210), (85, 66291), (98, 66411), (114, 66624),

Gene: MoiGyank_98 Start: 65906, Stop: 67207, Start Num: 3

Candidate Starts for MoiGyank_98:

(1, 65849), (Start: 3 @65906 has 30 MA's), (13, 65993), (20, 66092), (26, 66176), (33, 66251), (39, 66323), (40, 66326), (46, 66377), (47, 66380), (48, 66389), (54, 66452), (72, 66632), (77, 66680), (78, 66683), (81, 66734), (85, 66815), (86, 66818), (101, 66929), (114, 67103),

Gene: NorManre_100 Start: 66924, Stop: 68237, Start Num: 3

Candidate Starts for NorManre_100:

(Start: 3 @66924 has 30 MA's), (13, 67011), (20, 67110), (26, 67194), (33, 67269), (40, 67344), (46, 67395), (47, 67398), (48, 67407), (54, 67470), (59, 67557), (72, 67650), (77, 67698), (78, 67701), (81, 67752), (85, 67833), (87, 67845), (92, 67875), (102, 67962), (104, 68001), (114, 68133),

Gene: NovaSharks_94 Start: 63376, Stop: 64662, Start Num: 3

Candidate Starts for NovaSharks_94:

(Start: 3 @63376 has 30 MA's), (13, 63463), (20, 63562), (26, 63646), (33, 63721), (39, 63793), (40, 63796), (46, 63847), (47, 63850), (48, 63859), (58, 64006), (72, 64102), (77, 64150), (78, 64153), (81, 64204), (85, 64285), (114, 64558),

Gene: Oaker_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Oaker_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: OtterstedtS21_96 Start: 65736, Stop: 67082, Start Num: 3

Candidate Starts for OtterstedtS21_96:

(Start: 3 @65736 has 30 MA's), (13, 65823), (20, 65922), (26, 66006), (33, 66081), (40, 66156), (46, 66207), (47, 66210), (48, 66219), (54, 66282), (59, 66369), (72, 66462), (77, 66510), (78, 66513), (81, 66564), (85, 66645), (98, 66765), (114, 66978),

Gene: ParvusTarda_96 Start: 65318, Stop: 66667, Start Num: 3

Candidate Starts for ParvusTarda_96:

(Start: 3 @65318 has 30 MA's), (6, 65342), (13, 65411), (20, 65510), (21, 65519), (26, 65594), (33, 65669), (38, 65723), (40, 65744), (46, 65792), (48, 65804), (58, 65951), (59, 65954), (66, 65999), (77, 66095), (78, 66098), (85, 66230), (99, 66350), (114, 66563),

Gene: Patience_3 Start: 668, Stop: 2029, Start Num: 9

Candidate Starts for Patience_3:

(4, 650), (Start: 9 @668 has 3 MA's), (11, 677), (17, 800), (19, 827), (23, 851), (26, 920), (28, 938), (32, 992), (38, 1052), (41, 1076), (49, 1109), (51, 1121), (57, 1196), (62, 1265), (63, 1277), (64, 1280), (68, 1301), (70, 1310), (71, 1334), (72, 1337), (73, 1355), (75, 1370), (78, 1388), (80, 1406), (93, 1592), (94, 1604), (96, 1616), (100, 1673), (113, 1853), (118, 1904), (121, 1943), (122, 1952), (123, 1997),

Gene: Patos_100 Start: 66923, Stop: 68236, Start Num: 3

Candidate Starts for Patos_100:

(Start: 3 @66923 has 30 MA's), (13, 67010), (20, 67109), (26, 67193), (33, 67268), (40, 67343), (46, 67394), (47, 67397), (48, 67406), (54, 67469), (59, 67556), (72, 67649), (77, 67697), (78, 67700), (81, 67751), (85, 67832), (87, 67844), (92, 67874), (102, 67961), (104, 68000), (114, 68132),

Gene: Phreeze_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Phreeze_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: Predator_3 Start: 690, Stop: 2009, Start Num: 5

Candidate Starts for Predator_3:

(Start: 5 @690 has 9 MA's), (15, 804), (16, 822), (19, 858), (27, 954), (31, 987), (35, 1032), (38, 1068), (51, 1140), (52, 1143), (53, 1158), (56, 1191), (58, 1260), (60, 1272), (61, 1275), (63, 1296), (67, 1317), (68, 1320), (71, 1353), (76, 1392), (105, 1764), (107, 1800), (108, 1836), (110, 1845), (112, 1863), (113, 1872), (124, 1998),

Gene: Puissant_1 Start: 356, Stop: 1669, Start Num: 5

Candidate Starts for Puissant_1:

(Start: 5 @356 has 9 MA's), (21, 536), (22, 542), (23, 548), (35, 698), (41, 758), (50, 803), (51, 806), (56, 857), (58, 926), (59, 929), (60, 938), (61, 941), (63, 962), (67, 983), (69, 992), (74, 1052), (76, 1058), (83, 1178), (107, 1460), (112, 1523), (124, 1658),

Gene: Ranch_99 Start: 64973, Stop: 66283, Start Num: 3

Candidate Starts for Ranch_99:

(Start: 3 @64973 has 30 MA's), (13, 65060), (20, 65159), (26, 65243), (33, 65318), (40, 65393), (46, 65444), (47, 65447), (48, 65456), (54, 65519), (59, 65606), (72, 65699), (77, 65747), (78, 65750), (81, 65801), (85, 65882), (92, 65921), (102, 66008), (104, 66047), (114, 66179),

Gene: RazorC_93 Start: 63309, Stop: 64595, Start Num: 3

Candidate Starts for RazorC_93:

(Start: 3 @63309 has 30 MA's), (13, 63396), (20, 63495), (26, 63579), (33, 63654), (39, 63726), (40, 63729), (46, 63780), (47, 63783), (48, 63792), (58, 63939), (72, 64035), (77, 64083), (78, 64086), (81, 64137), (85, 64218), (103, 64329), (114, 64491),

Gene: Rumi_93 Start: 62971, Stop: 64257, Start Num: 3

Candidate Starts for Rumi_93:

(Start: 3 @62971 has 30 MA's), (13, 63058), (20, 63157), (26, 63241), (33, 63316), (39, 63388), (40, 63391), (46, 63442), (47, 63445), (48, 63454), (58, 63601), (72, 63697), (77, 63745), (78, 63748), (81, 63799), (85, 63880), (114, 64153),

Gene: Sadboi_95 Start: 65532, Stop: 66878, Start Num: 3

Candidate Starts for Sadboi_95:

(Start: 3 @65532 has 30 MA's), (13, 65619), (20, 65718), (26, 65802), (33, 65877), (39, 65949), (40, 65952), (46, 66003), (47, 66006), (48, 66015), (54, 66078), (59, 66165), (72, 66258), (77, 66306), (78, 66309), (81, 66360), (85, 66441), (98, 66561), (114, 66774),

Gene: Sampudon_97 Start: 66592, Stop: 67893, Start Num: 3

Candidate Starts for Sampudon_97:

(Start: 3 @66592 has 30 MA's), (13, 66679), (20, 66778), (26, 66862), (33, 66937), (39, 67009), (40, 67012), (45, 67051), (46, 67063), (47, 67066), (48, 67075), (54, 67138), (59, 67225), (72, 67318), (77,

67366), (78, 67369), (81, 67420), (85, 67501), (101, 67615), (114, 67789),

Gene: Stormer_95 Start: 63083, Stop: 64369, Start Num: 3

Candidate Starts for Stormer_95:

(Start: 3 @63083 has 30 MA's), (13, 63170), (20, 63269), (26, 63353), (33, 63428), (39, 63500), (40, 63503), (46, 63554), (47, 63557), (48, 63566), (59, 63716), (72, 63809), (77, 63857), (78, 63860), (81, 63911), (85, 63992), (114, 64265),

Gene: Thumb_2 Start: 355, Stop: 1668, Start Num: 5

Candidate Starts for Thumb_2:

(Start: 5 @355 has 9 MA's), (18, 505), (21, 535), (23, 547), (25, 589), (38, 733), (41, 757), (42, 766), (43, 769), (50, 802), (51, 805), (52, 808), (56, 856), (58, 925), (59, 928), (60, 937), (61, 940), (63, 961), (67, 982), (69, 991), (74, 1051), (76, 1057), (83, 1177), (107, 1459), (113, 1531), (124, 1657),

Gene: Tillicus_92 Start: 64659, Stop: 65981, Start Num: 3

Candidate Starts for Tillicus_92:

(2, 64641), (Start: 3 @64659 has 30 MA's), (6, 64683), (13, 64752), (20, 64851), (21, 64860), (26, 64935), (33, 65010), (40, 65085), (46, 65133), (48, 65145), (54, 65208), (58, 65292), (59, 65295), (77, 65436), (78, 65439), (84, 65547), (85, 65571), (90, 65589), (97, 65682), (111, 65856), (114, 65877),

Gene: Wojtek_88 Start: 65823, Stop: 67139, Start Num: 3

Candidate Starts for Wojtek_88:

(Start: 3 @65823 has 30 MA's), (6, 65847), (13, 65916), (20, 66015), (21, 66024), (26, 66099), (33, 66174), (38, 66228), (40, 66249), (46, 66297), (48, 66309), (58, 66456), (59, 66459), (66, 66504), (77, 66600), (78, 66603), (85, 66735), (87, 66747), (92, 66777), (102, 66864), (114, 67035),

Gene: Xenia2_97 Start: 66264, Stop: 67571, Start Num: 3

Candidate Starts for Xenia2_97:

(Start: 3 @66264 has 30 MA's), (6, 66288), (8, 66294), (10, 66303), (20, 66459), (21, 66468), (26, 66543), (33, 66618), (34, 66627), (36, 66651), (40, 66693), (44, 66714), (48, 66753), (58, 66900), (77, 67044), (78, 67047), (85, 67179), (87, 67182), (89, 67188), (92, 67212), (102, 67299), (109, 67434), (112, 67458), (115, 67479), (119, 67506),

Gene: Yikes_96 Start: 66196, Stop: 67542, Start Num: 3

Candidate Starts for Yikes_96:

(Start: 3 @66196 has 30 MA's), (13, 66283), (20, 66382), (26, 66466), (33, 66541), (39, 66613), (40, 66616), (46, 66667), (47, 66670), (48, 66679), (50, 66697), (54, 66742), (59, 66829), (72, 66922), (77, 66970), (78, 66973), (81, 67024), (85, 67105), (98, 67225), (114, 67438),

Gene: Zany_94 Start: 66336, Stop: 67637, Start Num: 3

Candidate Starts for Zany_94:

(1, 66279), (Start: 3 @66336 has 30 MA's), (13, 66423), (20, 66522), (26, 66606), (33, 66681), (39, 66753), (40, 66756), (46, 66807), (47, 66810), (48, 66819), (54, 66882), (72, 67062), (77, 67110), (78, 67113), (81, 67164), (85, 67245), (101, 67359), (114, 67533),