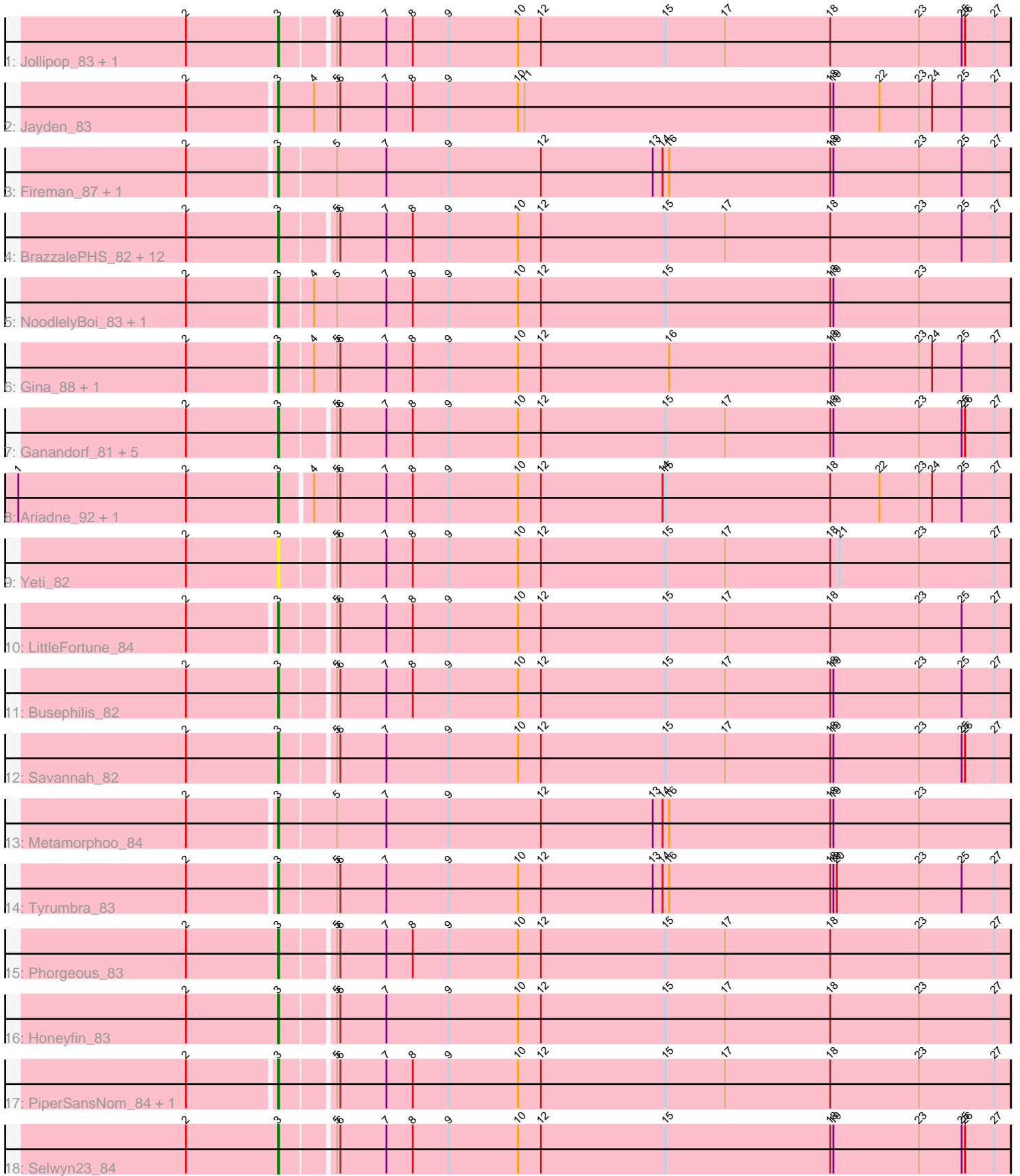


Pham 158005



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 158005 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158005 has 41 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Jollipop_83, Hermeonysus_83
- Track 2 : Jayden_83
- Track 3 : Fireman_87, RobsFeet_90
- Track 4 : BrazzalePHS_82, PierreOrion_82, Kowalski_82, Phrancesco_83, KaiHaiDragon_84, Paschalis_83, Jefe_83, Onika_82, Quhwah_87, Ramiel05_82, EarickHC_84, Shotgun_82, Antares_83
- Track 5 : NoodlelyBoi_83, ClearAsMud_86
- Track 6 : Gina_88, Teamocil_88
- Track 7 : Ganandorf_81, Piperis_84, Crisis_84, Cranjis_84, Scumberland_85, Pulchra_85
- Track 8 : Ariadne_92, Smarties_92
- Track 9 : Yeti_82
- Track 10 : LittleFortune_84
- Track 11 : Busephilis_82
- Track 12 : Savannah_82
- Track 13 : Metamorphoo_84
- Track 14 : Tyumbra_83
- Track 15 : Phorgeous_83
- Track 16 : Honeyfin_83
- Track 17 : PiperSansNom_84, CrazyRich_81
- Track 18 : Selwyn23_84

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 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_83, Ariadne_92, BrazzalePHS_82, Busephilis_82, ClearAsMud_86, Cranjis_84, CrazyRich_81, Crisis_84, EarickHC_84, Fireman_87, Ganandorf_81, Gina_88, Hermeonysus_83, Honeyfin_83, Jayden_83, Jefe_83, Jollipop_83, KaiHaiDragon_84, Kowalski_82, LittleFortune_84, Metamorphoo_84, NoodlelyBoi_83, Onika_82, Paschalis_83, Phorgeous_83, Phrancesco_83, PierreOrion_82, PiperSansNom_84, Piperis_84, Pulchra_85, Quhwah_87,

Ramiel05_82, RobsFeet_90, Savannah_82, Scumberland_85, Selwyn23_84, Shotgun_82, Smarties_92, Teamocil_88, Tyrumbra_83, Yeti_82,

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

-

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

-

Summary by start number:

Start 3:

- Found in 41 of 41 (100.0%) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_83 (EC), Ariadne_92 (EC), BrazzalePHS_82 (EC), Busephilis_82 (EC), ClearAsMud_86 (EC), Cranjjs_84 (EC), CrazyRich_81 (EC), Crisis_84 (EC), EarickHC_84 (EC), Fireman_87 (EC), Ganandorf_81 (EC), Gina_88 (EC), Hermeonysus_83 (EC), Honeyfin_83 (EC), Jayden_83 (EC), Jefe_83 (EC), Jollipop_83 (EC), KaiHaiDragon_84 (EC), Kowalski_82 (EC), LittleFortune_84 (EC), Metamorphoo_84 (EC), NoodlelyBoi_83 (EC), Onika_82 (EC), Paschalis_83 (EC), Phorgeous_83 (EC), Phrancesco_83 (EC), PierreOrion_82 (EC), PiperSansNom_84 (EC), Piperis_84 (EC), Pulchra_85 (EC), Quhwah_87 (EC), Ramiel05_82 (EC), RobsFeet_90 (EC), Savannah_82 (EC), Scumberland_85 (EC), Selwyn23_84 (EC), Shotgun_82 (EC), Smarties_92 (EC), Teamocil_88 (EC), Tyrumbra_83 (EC), Yeti_82 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 3 was manually annotated 36 times for cluster EC.

Gene Information:

Gene: Antares_83 Start: 49113, Stop: 49772, Start Num: 3

Candidate Starts for Antares_83:

(2, 49029), (Start: 3 @49113 has 36 MA's), (5, 49158), (6, 49161), (7, 49203), (8, 49227), (9, 49260), (10, 49323), (12, 49344), (15, 49458), (17, 49512), (18, 49608), (23, 49689), (25, 49728), (27, 49758),

Gene: Ariadne_92 Start: 49948, Stop: 50610, Start Num: 3

Candidate Starts for Ariadne_92:

(1, 49711), (2, 49864), (Start: 3 @49948 has 36 MA's), (4, 49975), (5, 49996), (6, 49999), (7, 50041), (8, 50065), (9, 50098), (10, 50161), (12, 50182), (14, 50293), (15, 50296), (18, 50446), (22, 50491), (23, 50527), (24, 50539), (25, 50566), (27, 50596),

Gene: BrazzalePHS_82 Start: 48913, Stop: 49572, Start Num: 3

Candidate Starts for BrazzalePHS_82:

(2, 48829), (Start: 3 @48913 has 36 MA's), (5, 48958), (6, 48961), (7, 49003), (8, 49027), (9, 49060), (10, 49123), (12, 49144), (15, 49258), (17, 49312), (18, 49408), (23, 49489), (25, 49528), (27, 49558),

Gene: Busephilis_82 Start: 48820, Stop: 49479, Start Num: 3

Candidate Starts for Busephilis_82:

(2, 48736), (Start: 3 @48820 has 36 MA's), (5, 48865), (6, 48868), (7, 48910), (8, 48934), (9, 48967), (10, 49030), (12, 49051), (15, 49165), (17, 49219), (18, 49315), (19, 49318), (23, 49396), (25, 49435), (27, 49465),

Gene: ClearAsMud_86 Start: 49132, Stop: 49797, Start Num: 3

Candidate Starts for ClearAsMud_86:

(2, 49054), (Start: 3 @49132 has 36 MA's), (4, 49162), (5, 49183), (7, 49228), (8, 49252), (9, 49285), (10, 49348), (12, 49369), (15, 49483), (18, 49633), (19, 49636), (23, 49714),

Gene: Cranjis_84 Start: 49100, Stop: 49759, Start Num: 3

Candidate Starts for Cranjis_84:

(2, 49016), (Start: 3 @49100 has 36 MA's), (5, 49145), (6, 49148), (7, 49190), (8, 49214), (9, 49247), (10, 49310), (12, 49331), (15, 49445), (17, 49499), (18, 49595), (19, 49598), (23, 49676), (25, 49715), (26, 49718), (27, 49745),

Gene: CrazyRich_81 Start: 48604, Stop: 49263, Start Num: 3

Candidate Starts for CrazyRich_81:

(2, 48526), (Start: 3 @48604 has 36 MA's), (5, 48649), (6, 48652), (7, 48694), (8, 48718), (9, 48751), (10, 48814), (12, 48835), (15, 48949), (17, 49003), (18, 49099), (23, 49180), (27, 49249),

Gene: Crisis_84 Start: 49056, Stop: 49715, Start Num: 3

Candidate Starts for Crisis_84:

(2, 48972), (Start: 3 @49056 has 36 MA's), (5, 49101), (6, 49104), (7, 49146), (8, 49170), (9, 49203), (10, 49266), (12, 49287), (15, 49401), (17, 49455), (18, 49551), (19, 49554), (23, 49632), (25, 49671), (26, 49674), (27, 49701),

Gene: EarickHC_84 Start: 48978, Stop: 49637, Start Num: 3

Candidate Starts for EarickHC_84:

(2, 48894), (Start: 3 @48978 has 36 MA's), (5, 49023), (6, 49026), (7, 49068), (8, 49092), (9, 49125), (10, 49188), (12, 49209), (15, 49323), (17, 49377), (18, 49473), (23, 49554), (25, 49593), (27, 49623),

Gene: Fireman_87 Start: 50364, Stop: 51029, Start Num: 3

Candidate Starts for Fireman_87:

(2, 50286), (Start: 3 @50364 has 36 MA's), (5, 50415), (7, 50460), (9, 50517), (12, 50601), (13, 50703), (14, 50712), (16, 50718), (18, 50865), (19, 50868), (23, 50946), (25, 50985), (27, 51015),

Gene: Ganandorf_81 Start: 48464, Stop: 49123, Start Num: 3

Candidate Starts for Ganandorf_81:

(2, 48380), (Start: 3 @48464 has 36 MA's), (5, 48509), (6, 48512), (7, 48554), (8, 48578), (9, 48611), (10, 48674), (12, 48695), (15, 48809), (17, 48863), (18, 48959), (19, 48962), (23, 49040), (25, 49079), (26, 49082), (27, 49109),

Gene: Gina_88 Start: 48970, Stop: 49635, Start Num: 3

Candidate Starts for Gina_88:

(2, 48892), (Start: 3 @48970 has 36 MA's), (4, 49000), (5, 49021), (6, 49024), (7, 49066), (8, 49090), (9, 49123), (10, 49186), (12, 49207), (16, 49324), (18, 49471), (19, 49474), (23, 49552), (24, 49564), (25, 49591), (27, 49621),

Gene: Hermeonysus_83 Start: 48821, Stop: 49480, Start Num: 3

Candidate Starts for Hermeonysus_83:

(2, 48737), (Start: 3 @48821 has 36 MA's), (5, 48866), (6, 48869), (7, 48911), (8, 48935), (9, 48968), (10, 49031), (12, 49052), (15, 49166), (17, 49220), (18, 49316), (23, 49397), (25, 49436), (26, 49439), (27, 49466),

Gene: Honeyfin_83 Start: 48654, Stop: 49313, Start Num: 3

Candidate Starts for Honeyfin_83:

(2, 48570), (Start: 3 @48654 has 36 MA's), (5, 48699), (6, 48702), (7, 48744), (9, 48801), (10, 48864), (12, 48885), (15, 48999), (17, 49053), (18, 49149), (23, 49230), (27, 49299),

Gene: Jayden_83 Start: 48575, Stop: 49243, Start Num: 3

Candidate Starts for Jayden_83:

(2, 48497), (Start: 3 @48575 has 36 MA's), (4, 48608), (5, 48629), (6, 48632), (7, 48674), (8, 48698), (9, 48731), (10, 48794), (11, 48800), (18, 49079), (19, 49082), (22, 49124), (23, 49160), (24, 49172), (25, 49199), (27, 49229),

Gene: Jefe_83 Start: 48876, Stop: 49535, Start Num: 3

Candidate Starts for Jefe_83:

(2, 48792), (Start: 3 @48876 has 36 MA's), (5, 48921), (6, 48924), (7, 48966), (8, 48990), (9, 49023), (10, 49086), (12, 49107), (15, 49221), (17, 49275), (18, 49371), (23, 49452), (25, 49491), (27, 49521),

Gene: Jollipop_83 Start: 49241, Stop: 49900, Start Num: 3

Candidate Starts for Jollipop_83:

(2, 49157), (Start: 3 @49241 has 36 MA's), (5, 49286), (6, 49289), (7, 49331), (8, 49355), (9, 49388), (10, 49451), (12, 49472), (15, 49586), (17, 49640), (18, 49736), (23, 49817), (25, 49856), (26, 49859), (27, 49886),

Gene: KaiHaiDragon_84 Start: 48978, Stop: 49637, Start Num: 3

Candidate Starts for KaiHaiDragon_84:

(2, 48894), (Start: 3 @48978 has 36 MA's), (5, 49023), (6, 49026), (7, 49068), (8, 49092), (9, 49125), (10, 49188), (12, 49209), (15, 49323), (17, 49377), (18, 49473), (23, 49554), (25, 49593), (27, 49623),

Gene: Kowalski_82 Start: 48908, Stop: 49567, Start Num: 3

Candidate Starts for Kowalski_82:

(2, 48824), (Start: 3 @48908 has 36 MA's), (5, 48953), (6, 48956), (7, 48998), (8, 49022), (9, 49055), (10, 49118), (12, 49139), (15, 49253), (17, 49307), (18, 49403), (23, 49484), (25, 49523), (27, 49553),

Gene: LittleFortune_84 Start: 48891, Stop: 49550, Start Num: 3

Candidate Starts for LittleFortune_84:

(2, 48813), (Start: 3 @48891 has 36 MA's), (5, 48936), (6, 48939), (7, 48981), (8, 49005), (9, 49038), (10, 49101), (12, 49122), (15, 49236), (17, 49290), (18, 49386), (23, 49467), (25, 49506), (27, 49536),

Gene: Metamorphoo_84 Start: 49657, Stop: 50322, Start Num: 3

Candidate Starts for Metamorphoo_84:

(2, 49579), (Start: 3 @49657 has 36 MA's), (5, 49708), (7, 49753), (9, 49810), (12, 49894), (13, 49996), (14, 50005), (16, 50011), (18, 50158), (19, 50161), (23, 50239),

Gene: NoodlelyBoi_83 Start: 49237, Stop: 49902, Start Num: 3

Candidate Starts for NoodlelyBoi_83:

(2, 49159), (Start: 3 @49237 has 36 MA's), (4, 49267), (5, 49288), (7, 49333), (8, 49357), (9, 49390), (10, 49453), (12, 49474), (15, 49588), (18, 49738), (19, 49741), (23, 49819),

Gene: Onika_82 Start: 48879, Stop: 49538, Start Num: 3

Candidate Starts for Onika_82:

(2, 48795), (Start: 3 @48879 has 36 MA's), (5, 48924), (6, 48927), (7, 48969), (8, 48993), (9, 49026), (10, 49089), (12, 49110), (15, 49224), (17, 49278), (18, 49374), (23, 49455), (25, 49494), (27, 49524),

Gene: Paschalis_83 Start: 48906, Stop: 49565, Start Num: 3

Candidate Starts for Paschalis_83:

(2, 48822), (Start: 3 @48906 has 36 MA's), (5, 48951), (6, 48954), (7, 48996), (8, 49020), (9, 49053), (10, 49116), (12, 49137), (15, 49251), (17, 49305), (18, 49401), (23, 49482), (25, 49521), (27, 49551),

Gene: Phorgeous_83 Start: 48695, Stop: 49354, Start Num: 3

Candidate Starts for Phorgeous_83:

(2, 48611), (Start: 3 @48695 has 36 MA's), (5, 48740), (6, 48743), (7, 48785), (8, 48809), (9, 48842), (10, 48905), (12, 48926), (15, 49040), (17, 49094), (18, 49190), (23, 49271), (27, 49340),

Gene: Phrancesco_83 Start: 49006, Stop: 49665, Start Num: 3

Candidate Starts for Phrancesco_83:

(2, 48922), (Start: 3 @49006 has 36 MA's), (5, 49051), (6, 49054), (7, 49096), (8, 49120), (9, 49153), (10, 49216), (12, 49237), (15, 49351), (17, 49405), (18, 49501), (23, 49582), (25, 49621), (27, 49651),

Gene: PierreOrion_82 Start: 48715, Stop: 49374, Start Num: 3

Candidate Starts for PierreOrion_82:

(2, 48631), (Start: 3 @48715 has 36 MA's), (5, 48760), (6, 48763), (7, 48805), (8, 48829), (9, 48862), (10, 48925), (12, 48946), (15, 49060), (17, 49114), (18, 49210), (23, 49291), (25, 49330), (27, 49360),

Gene: PiperSansNom_84 Start: 49209, Stop: 49868, Start Num: 3

Candidate Starts for PiperSansNom_84:

(2, 49131), (Start: 3 @49209 has 36 MA's), (5, 49254), (6, 49257), (7, 49299), (8, 49323), (9, 49356), (10, 49419), (12, 49440), (15, 49554), (17, 49608), (18, 49704), (23, 49785), (27, 49854),

Gene: Piperis_84 Start: 48814, Stop: 49473, Start Num: 3

Candidate Starts for Piperis_84:

(2, 48730), (Start: 3 @48814 has 36 MA's), (5, 48859), (6, 48862), (7, 48904), (8, 48928), (9, 48961), (10, 49024), (12, 49045), (15, 49159), (17, 49213), (18, 49309), (19, 49312), (23, 49390), (25, 49429), (26, 49432), (27, 49459),

Gene: Pulchra_85 Start: 49381, Stop: 50040, Start Num: 3

Candidate Starts for Pulchra_85:

(2, 49297), (Start: 3 @49381 has 36 MA's), (5, 49426), (6, 49429), (7, 49471), (8, 49495), (9, 49528), (10, 49591), (12, 49612), (15, 49726), (17, 49780), (18, 49876), (19, 49879), (23, 49957), (25, 49996), (26, 49999), (27, 50026),

Gene: Quhwah_87 Start: 49535, Stop: 50194, Start Num: 3

Candidate Starts for Quhwah_87:

(2, 49451), (Start: 3 @49535 has 36 MA's), (5, 49580), (6, 49583), (7, 49625), (8, 49649), (9, 49682), (10, 49745), (12, 49766), (15, 49880), (17, 49934), (18, 50030), (23, 50111), (25, 50150), (27, 50180),

Gene: Ramiel05_82 Start: 48908, Stop: 49567, Start Num: 3

Candidate Starts for Ramiel05_82:

(2, 48824), (Start: 3 @48908 has 36 MA's), (5, 48953), (6, 48956), (7, 48998), (8, 49022), (9, 49055), (10, 49118), (12, 49139), (15, 49253), (17, 49307), (18, 49403), (23, 49484), (25, 49523), (27, 49553),

Gene: RobsFeet_90 Start: 49974, Stop: 50639, Start Num: 3

Candidate Starts for RobsFeet_90:

(2, 49896), (Start: 3 @49974 has 36 MA's), (5, 50025), (7, 50070), (9, 50127), (12, 50211), (13, 50313), (14, 50322), (16, 50328), (18, 50475), (19, 50478), (23, 50556), (25, 50595), (27, 50625),

Gene: Savannah_82 Start: 49100, Stop: 49759, Start Num: 3

Candidate Starts for Savannah_82:

(2, 49016), (Start: 3 @49100 has 36 MA's), (5, 49145), (6, 49148), (7, 49190), (9, 49247), (10, 49310), (12, 49331), (15, 49445), (17, 49499), (18, 49595), (19, 49598), (23, 49676), (25, 49715), (26, 49718), (27, 49745),

Gene: Scumberland_85 Start: 49154, Stop: 49813, Start Num: 3

Candidate Starts for Scumberland_85:

(2, 49070), (Start: 3 @49154 has 36 MA's), (5, 49199), (6, 49202), (7, 49244), (8, 49268), (9, 49301), (10, 49364), (12, 49385), (15, 49499), (17, 49553), (18, 49649), (19, 49652), (23, 49730), (25, 49769), (26, 49772), (27, 49799),

Gene: Selwyn23_84 Start: 49039, Stop: 49698, Start Num: 3

Candidate Starts for Selwyn23_84:

(2, 48955), (Start: 3 @49039 has 36 MA's), (5, 49084), (6, 49087), (7, 49129), (8, 49153), (9, 49186), (10, 49249), (12, 49270), (15, 49384), (18, 49534), (19, 49537), (23, 49615), (25, 49654), (26, 49657), (27, 49684),

Gene: Shotgun_82 Start: 48410, Stop: 49069, Start Num: 3

Candidate Starts for Shotgun_82:

(2, 48326), (Start: 3 @48410 has 36 MA's), (5, 48455), (6, 48458), (7, 48500), (8, 48524), (9, 48557), (10, 48620), (12, 48641), (15, 48755), (17, 48809), (18, 48905), (23, 48986), (25, 49025), (27, 49055),

Gene: Smarties_92 Start: 49945, Stop: 50607, Start Num: 3

Candidate Starts for Smarties_92:

(1, 49708), (2, 49861), (Start: 3 @49945 has 36 MA's), (4, 49972), (5, 49993), (6, 49996), (7, 50038), (8, 50062), (9, 50095), (10, 50158), (12, 50179), (14, 50290), (15, 50293), (18, 50443), (22, 50488), (23, 50524), (24, 50536), (25, 50563), (27, 50593),

Gene: Teamocil_88 Start: 49063, Stop: 49728, Start Num: 3

Candidate Starts for Teamocil_88:

(2, 48985), (Start: 3 @49063 has 36 MA's), (4, 49093), (5, 49114), (6, 49117), (7, 49159), (8, 49183), (9, 49216), (10, 49279), (12, 49300), (16, 49417), (18, 49564), (19, 49567), (23, 49645), (24, 49657), (25, 49684), (27, 49714),

Gene: Tyrumbra_83 Start: 49578, Stop: 50243, Start Num: 3

Candidate Starts for Tyrumbra_83:

(2, 49500), (Start: 3 @49578 has 36 MA's), (5, 49629), (6, 49632), (7, 49674), (9, 49731), (10, 49794), (12, 49815), (13, 49917), (14, 49926), (16, 49932), (18, 50079), (19, 50082), (20, 50085), (23, 50160), (25, 50199), (27, 50229),

Gene: Yeti_82 Start: 48436, Stop: 49095, Start Num: 3

Candidate Starts for Yeti_82:

(2, 48352), (Start: 3 @48436 has 36 MA's), (5, 48481), (6, 48484), (7, 48526), (8, 48550), (9, 48583), (10, 48646), (12, 48667), (15, 48781), (17, 48835), (18, 48931), (21, 48940), (23, 49012), (27, 49081),