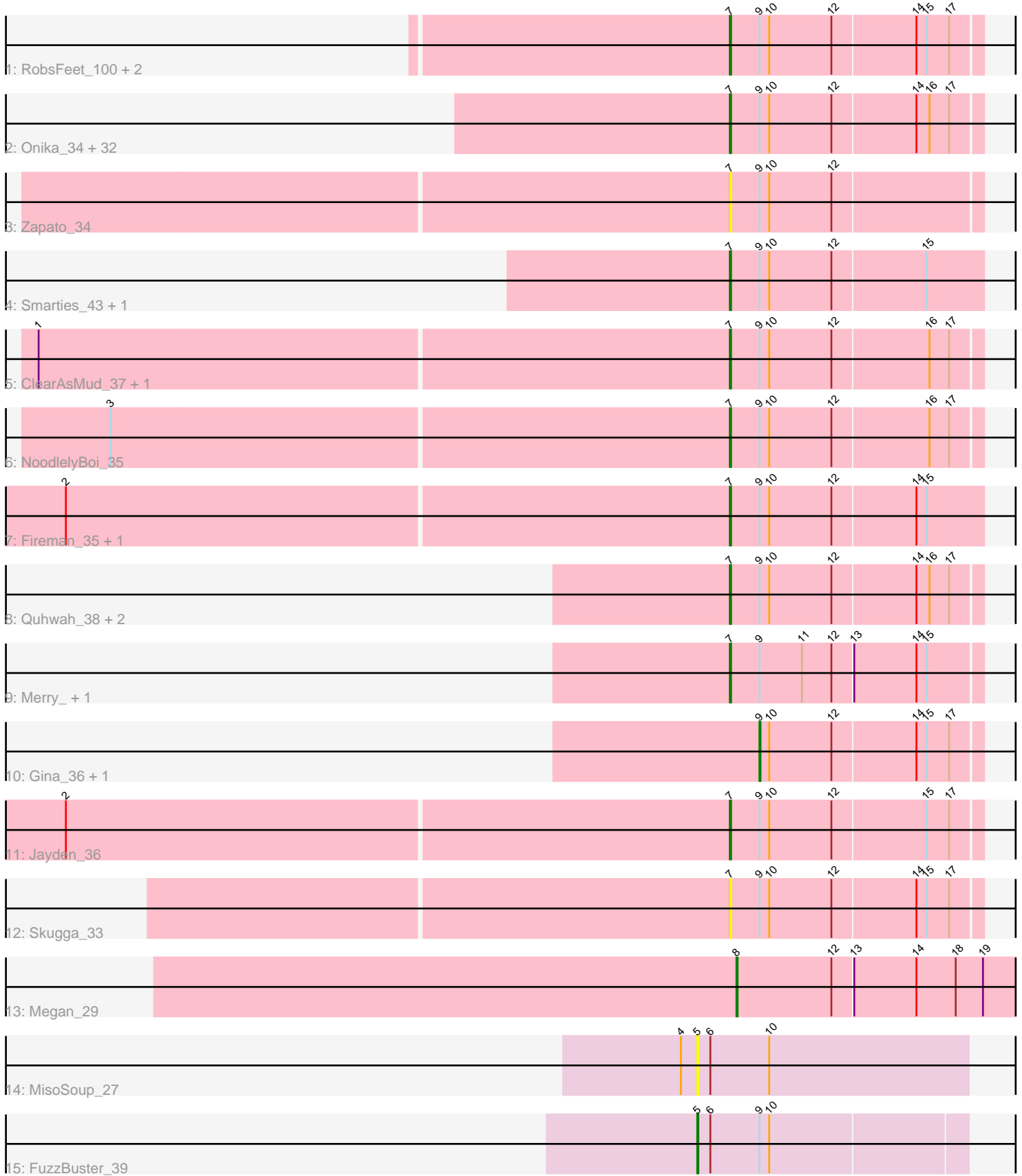


Pham 305048



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 305048 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305048 has 56 members, 8 are drafts.

Phages represented in each track:

- Track 1 : RobsFeet_100, Shrubaron_35, Metamorphoo_93
- Track 2 : Onika_34, Honeyfin_36, Selwyn23_36, Pulchra_36, Piperis_35, Lucretia_35, Ramiel05_34, Glorp_36, Kowalski_34, Germa_36, Antares_35, Cranjjs_36, Jollipop_35, Ganandorf_34, Phrancesco_35, PiperSansNom_35, Shotgun_34, Paschalis_34, PhedwardCullen_34, CrazyRich_34, Hermeonysus_34, LittleFortune_36, BeagleBug_34, Jefe_35, Savannah_34, Scumberland_36, Busephilis_34, Yeti_35, Phorgeous_34, Rockwell_34, BrazzalePHS_34, PierreOrion_35, Crisis_36
- Track 3 : Zapato_34
- Track 4 : Smarties_43, Ariadne_43
- Track 5 : ClearAsMud_37, SirFrank_34
- Track 6 : NoodlelyBoi_35
- Track 7 : Fireman_35, Tyrumbra_33
- Track 8 : Quhwah_38, EarickHC_35, KaiHaiDragon_35
- Track 9 : Merry_, Sunny_
- Track 10 : Gina_36, Teamocil_36
- Track 11 : Jayden_36
- Track 12 : Skugga_33
- Track 13 : Megan_29
- Track 14 : MisoSoup_27
- Track 15 : FuzzBuster_39

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

The start number called the most often in the published annotations is 7, it was called in 44 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_35, Ariadne_43, BeagleBug_34, BrazzalePHS_34, Busephilis_34, ClearAsMud_37, Cranjjs_36, CrazyRich_34, Crisis_36, EarickHC_35, Fireman_35, Ganandorf_34, Germa_36, Glorp_36, Hermeonysus_34, Honeyfin_36, Jayden_36, Jefe_35, Jollipop_35, KaiHaiDragon_35, Kowalski_34, LittleFortune_36, Lucretia_35, Merry_, Metamorphoo_93, NoodlelyBoi_35, Onika_34, Paschalis_34, PhedwardCullen_34, Phorgeous_34, Phrancesco_35, PierreOrion_35,

PiperSansNom_35, Piperis_35, Pulchra_36, Quhwah_38, Ramiel05_34, RobsFeet_100, Rockwell_34, Savannah_34, Scumberland_36, Selwyn23_36, Shotgun_34, Shrubaron_35, SirFrank_34, Skugga_33, Smarties_43, Sunny_, Tyumbra_33, Yeti_35, Zapato_34,

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

-

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

- FuzzBuster_39, Gina_36, Megan_29, MisoSoup_27, Teamocil_36,

Summary by start number:

Start 5:

- Found in 2 of 56 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FuzzBuster_39 (GM), MisoSoup_27 (GM),

Start 7:

- Found in 51 of 56 (91.1%) of genes in pham
- Manual Annotations of this start: 44 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antares_35 (EC), Ariadne_43 (EC), BeagleBug_34 (EC), BrazzalePHS_34 (EC), Busephilis_34 (EC), ClearAsMud_37 (EC), Cranjis_36 (EC), CrazyRich_34 (EC), Crisis_36 (EC), EarickHC_35 (EC), Fireman_35 (EC), Ganandorf_34 (EC), Germa_36 (EC), Glorp_36 (EC), Hermeonysus_34 (EC), Honeyfin_36 (EC), Jayden_36 (EC), Jefe_35 (EC), Jollipop_35 (EC), KaiHaiDragon_35 (EC), Kowalski_34 (EC), LittleFortune_36 (EC), Lucretia_35 (EC), Merry_ (EC), Metamorphoo_93 (EC), NoodlelyBoi_35 (EC), Onika_34 (EC), Paschalis_34 (EC), PhedwardCullen_34 (EC), Phorgeous_34 (EC), Phrancesco_35 (EC), PierreOrion_35 (EC), PiperSansNom_35 (EC), Piperis_35 (EC), Pulchra_36 (EC), Quhwah_38 (EC), Ramiel05_34 (EC), RobsFeet_100 (EC), Rockwell_34 (EC), Savannah_34 (EC), Scumberland_36 (EC), Selwyn23_36 (EC), Shotgun_34 (EC), Shrubaron_35 (EC), SirFrank_34 (EC), Skugga_33 (EC), Smarties_43 (EC), Sunny_ (EC), Tyumbra_33 (EC), Yeti_35 (EC), Zapato_34 (EC),

Start 8:

- Found in 1 of 56 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_29 (EC),

Start 9:

- Found in 54 of 56 (96.4%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 3.7% of time when present
- Phage (with cluster) where this start called: Gina_36 (EC), Teamocil_36 (EC),

Summary by clusters:

There are 2 clusters represented in this pham: GM, EC,

Info for manual annotations of cluster EC:

- Start number 7 was manually annotated 44 times for cluster EC.
- Start number 8 was manually annotated 1 time for cluster EC.
- Start number 9 was manually annotated 2 times for cluster EC.

Info for manual annotations of cluster GM:

- Start number 5 was manually annotated 1 time for cluster GM.

Gene Information:

Gene: Antares_35 Start: 20527, Stop: 20751, Start Num: 7

Candidate Starts for Antares_35:

(Start: 7 @20527 has 44 MA's), (Start: 9 @20554 has 2 MA's), (10, 20563), (12, 20620), (14, 20695), (16, 20707), (17, 20725),

Gene: Ariadne_43 Start: 22227, Stop: 22454, Start Num: 7

Candidate Starts for Ariadne_43:

(Start: 7 @22227 has 44 MA's), (Start: 9 @22254 has 2 MA's), (10, 22263), (12, 22320), (15, 22404),

Gene: BeagleBug_34 Start: 20308, Stop: 20532, Start Num: 7

Candidate Starts for BeagleBug_34:

(Start: 7 @20308 has 44 MA's), (Start: 9 @20335 has 2 MA's), (10, 20344), (12, 20401), (14, 20476), (16, 20488), (17, 20506),

Gene: BrazzalePHS_34 Start: 20322, Stop: 20546, Start Num: 7

Candidate Starts for BrazzalePHS_34:

(Start: 7 @20322 has 44 MA's), (Start: 9 @20349 has 2 MA's), (10, 20358), (12, 20415), (14, 20490), (16, 20502), (17, 20520),

Gene: Busephilis_34 Start: 20257, Stop: 20481, Start Num: 7

Candidate Starts for Busephilis_34:

(Start: 7 @20257 has 44 MA's), (Start: 9 @20284 has 2 MA's), (10, 20293), (12, 20350), (14, 20425), (16, 20437), (17, 20455),

Gene: ClearAsMud_37 Start: 21036, Stop: 21260, Start Num: 7

Candidate Starts for ClearAsMud_37:

(1, 20409), (Start: 7 @21036 has 44 MA's), (Start: 9 @21063 has 2 MA's), (10, 21072), (12, 21129), (16, 21216), (17, 21234),

Gene: Cranjis_36 Start: 20482, Stop: 20706, Start Num: 7

Candidate Starts for Cranjis_36:

(Start: 7 @20482 has 44 MA's), (Start: 9 @20509 has 2 MA's), (10, 20518), (12, 20575), (14, 20650), (16, 20662), (17, 20680),

Gene: CrazyRich_34 Start: 20291, Stop: 20515, Start Num: 7

Candidate Starts for CrazyRich_34:

(Start: 7 @20291 has 44 MA's), (Start: 9 @20318 has 2 MA's), (10, 20327), (12, 20384), (14, 20459), (16, 20471), (17, 20489),

Gene: Crisis_36 Start: 20276, Stop: 20500, Start Num: 7

Candidate Starts for Crisis_36:

(Start: 7 @20276 has 44 MA's), (Start: 9 @20303 has 2 MA's), (10, 20312), (12, 20369), (14, 20444), (16, 20456), (17, 20474),

Gene: EarickHC_35 Start: 20202, Stop: 20426, Start Num: 7

Candidate Starts for EarickHC_35:

(Start: 7 @20202 has 44 MA's), (Start: 9 @20229 has 2 MA's), (10, 20238), (12, 20295), (14, 20370), (16, 20382), (17, 20400),

Gene: Fireman_35 Start: 20093, Stop: 20320, Start Num: 7

Candidate Starts for Fireman_35:

(2, 19490), (Start: 7 @20093 has 44 MA's), (Start: 9 @20120 has 2 MA's), (10, 20129), (12, 20186), (14, 20261), (15, 20270),

Gene: FuzzBuster_39 Start: 20330, Stop: 20572, Start Num: 5

Candidate Starts for FuzzBuster_39:

(Start: 5 @20330 has 1 MA's), (6, 20342), (Start: 9 @20387 has 2 MA's), (10, 20396),

Gene: Ganandorf_34 Start: 20338, Stop: 20562, Start Num: 7

Candidate Starts for Ganandorf_34:

(Start: 7 @20338 has 44 MA's), (Start: 9 @20365 has 2 MA's), (10, 20374), (12, 20431), (14, 20506), (16, 20518), (17, 20536),

Gene: Germa_36 Start: 20167, Stop: 20391, Start Num: 7

Candidate Starts for Germa_36:

(Start: 7 @20167 has 44 MA's), (Start: 9 @20194 has 2 MA's), (10, 20203), (12, 20260), (14, 20335), (16, 20347), (17, 20365),

Gene: Gina_36 Start: 20146, Stop: 20343, Start Num: 9

Candidate Starts for Gina_36:

(Start: 9 @20146 has 2 MA's), (10, 20155), (12, 20212), (14, 20287), (15, 20296), (17, 20317),

Gene: Glorp_36 Start: 20339, Stop: 20563, Start Num: 7

Candidate Starts for Glorp_36:

(Start: 7 @20339 has 44 MA's), (Start: 9 @20366 has 2 MA's), (10, 20375), (12, 20432), (14, 20507), (16, 20519), (17, 20537),

Gene: Hermeonysus_34 Start: 20211, Stop: 20435, Start Num: 7

Candidate Starts for Hermeonysus_34:

(Start: 7 @20211 has 44 MA's), (Start: 9 @20238 has 2 MA's), (10, 20247), (12, 20304), (14, 20379), (16, 20391), (17, 20409),

Gene: Honeyfin_36 Start: 20526, Stop: 20750, Start Num: 7

Candidate Starts for Honeyfin_36:

(Start: 7 @20526 has 44 MA's), (Start: 9 @20553 has 2 MA's), (10, 20562), (12, 20619), (14, 20694), (16, 20706), (17, 20724),

Gene: Jayden_36 Start: 20269, Stop: 20493, Start Num: 7

Candidate Starts for Jayden_36:

(2, 19666), (Start: 7 @20269 has 44 MA's), (Start: 9 @20296 has 2 MA's), (10, 20305), (12, 20362), (15, 20446), (17, 20467),

Gene: Jefe_35 Start: 20263, Stop: 20487, Start Num: 7

Candidate Starts for Jefe_35:

(Start: 7 @20263 has 44 MA's), (Start: 9 @20290 has 2 MA's), (10, 20299), (12, 20356), (14, 20431), (16, 20443), (17, 20461),

Gene: Jollipop_35 Start: 20608, Stop: 20832, Start Num: 7

Candidate Starts for Jollipop_35:

(Start: 7 @20608 has 44 MA's), (Start: 9 @20635 has 2 MA's), (10, 20644), (12, 20701), (14, 20776), (16, 20788), (17, 20806),

Gene: KaiHaiDragon_35 Start: 20202, Stop: 20426, Start Num: 7

Candidate Starts for KaiHaiDragon_35:

(Start: 7 @20202 has 44 MA's), (Start: 9 @20229 has 2 MA's), (10, 20238), (12, 20295), (14, 20370), (16, 20382), (17, 20400),

Gene: Kowalski_34 Start: 20318, Stop: 20542, Start Num: 7

Candidate Starts for Kowalski_34:

(Start: 7 @20318 has 44 MA's), (Start: 9 @20345 has 2 MA's), (10, 20354), (12, 20411), (14, 20486), (16, 20498), (17, 20516),

Gene: LittleFortune_36 Start: 20568, Stop: 20792, Start Num: 7

Candidate Starts for LittleFortune_36:

(Start: 7 @20568 has 44 MA's), (Start: 9 @20595 has 2 MA's), (10, 20604), (12, 20661), (14, 20736), (16, 20748), (17, 20766),

Gene: Lucretia_35 Start: 20255, Stop: 20479, Start Num: 7

Candidate Starts for Lucretia_35:

(Start: 7 @20255 has 44 MA's), (Start: 9 @20282 has 2 MA's), (10, 20291), (12, 20348), (14, 20423), (16, 20435), (17, 20453),

Gene: Megan_29 Start: 21646, Stop: 21909, Start Num: 8

Candidate Starts for Megan_29:

(Start: 8 @21646 has 1 MA's), (12, 21733), (13, 21751), (14, 21808), (18, 21844), (19, 21868),

Gene: Merry_ Start: 22378, Stop: 22602, Start Num: 7

Candidate Starts for Merry_:

(Start: 7 @22378 has 44 MA's), (Start: 9 @22405 has 2 MA's), (11, 22444), (12, 22471), (13, 22489), (14, 22546), (15, 22555),

Gene: Metamorphoo_93 Start: 20121, Stop: 20345, Start Num: 7

Candidate Starts for Metamorphoo_93:

(Start: 7 @20121 has 44 MA's), (Start: 9 @20148 has 2 MA's), (10, 20157), (12, 20214), (14, 20289), (15, 20298), (17, 20319),

Gene: MisoSoup_27 Start: 16689, Stop: 16937, Start Num: 5

Candidate Starts for MisoSoup_27:

(4, 16674), (Start: 5 @16689 has 1 MA's), (6, 16701), (10, 16755),

Gene: NoodlelyBoi_35 Start: 20646, Stop: 20870, Start Num: 7

Candidate Starts for NoodlelyBoi_35:

(3, 20085), (Start: 7 @20646 has 44 MA's), (Start: 9 @20673 has 2 MA's), (10, 20682), (12, 20739), (16, 20826), (17, 20844),

Gene: Onika_34 Start: 20293, Stop: 20517, Start Num: 7

Candidate Starts for Onika_34:

(Start: 7 @20293 has 44 MA's), (Start: 9 @20320 has 2 MA's), (10, 20329), (12, 20386), (14, 20461), (16, 20473), (17, 20491),

Gene: Paschalis_34 Start: 20306, Stop: 20530, Start Num: 7

Candidate Starts for Paschalis_34:

(Start: 7 @20306 has 44 MA's), (Start: 9 @20333 has 2 MA's), (10, 20342), (12, 20399), (14, 20474), (16, 20486), (17, 20504),

Gene: PhedwardCullen_34 Start: 20051, Stop: 20275, Start Num: 7

Candidate Starts for PhedwardCullen_34:

(Start: 7 @20051 has 44 MA's), (Start: 9 @20078 has 2 MA's), (10, 20087), (12, 20144), (14, 20219), (16, 20231), (17, 20249),

Gene: Phorgeous_34 Start: 20160, Stop: 20384, Start Num: 7

Candidate Starts for Phorgeous_34:

(Start: 7 @20160 has 44 MA's), (Start: 9 @20187 has 2 MA's), (10, 20196), (12, 20253), (14, 20328), (16, 20340), (17, 20358),

Gene: Phrancesco_35 Start: 20438, Stop: 20662, Start Num: 7

Candidate Starts for Phrancesco_35:

(Start: 7 @20438 has 44 MA's), (Start: 9 @20465 has 2 MA's), (10, 20474), (12, 20531), (14, 20606), (16, 20618), (17, 20636),

Gene: PierreOrion_35 Start: 20461, Stop: 20685, Start Num: 7

Candidate Starts for PierreOrion_35:

(Start: 7 @20461 has 44 MA's), (Start: 9 @20488 has 2 MA's), (10, 20497), (12, 20554), (14, 20629), (16, 20641), (17, 20659),

Gene: PiperSansNom_35 Start: 20613, Stop: 20837, Start Num: 7

Candidate Starts for PiperSansNom_35:

(Start: 7 @20613 has 44 MA's), (Start: 9 @20640 has 2 MA's), (10, 20649), (12, 20706), (14, 20781), (16, 20793), (17, 20811),

Gene: Piperis_35 Start: 20283, Stop: 20507, Start Num: 7

Candidate Starts for Piperis_35:

(Start: 7 @20283 has 44 MA's), (Start: 9 @20310 has 2 MA's), (10, 20319), (12, 20376), (14, 20451), (16, 20463), (17, 20481),

Gene: Pulchra_36 Start: 20683, Stop: 20907, Start Num: 7

Candidate Starts for Pulchra_36:

(Start: 7 @20683 has 44 MA's), (Start: 9 @20710 has 2 MA's), (10, 20719), (12, 20776), (14, 20851), (16, 20863), (17, 20881),

Gene: Quhwah_38 Start: 20909, Stop: 21133, Start Num: 7

Candidate Starts for Quhwah_38:

(Start: 7 @20909 has 44 MA's), (Start: 9 @20936 has 2 MA's), (10, 20945), (12, 21002), (14, 21077), (16, 21089), (17, 21107),

Gene: Ramiel05_34 Start: 20318, Stop: 20542, Start Num: 7

Candidate Starts for Ramiel05_34:

(Start: 7 @20318 has 44 MA's), (Start: 9 @20345 has 2 MA's), (10, 20354), (12, 20411), (14, 20486), (16, 20498), (17, 20516),

Gene: RobsFeet_100 Start: 20402, Stop: 20626, Start Num: 7
Candidate Starts for RobsFeet_100:
(Start: 7 @20402 has 44 MA's), (Start: 9 @20429 has 2 MA's), (10, 20438), (12, 20495), (14, 20570),
(15, 20579), (17, 20600),

Gene: Rockwell_34 Start: 20318, Stop: 20542, Start Num: 7
Candidate Starts for Rockwell_34:
(Start: 7 @20318 has 44 MA's), (Start: 9 @20345 has 2 MA's), (10, 20354), (12, 20411), (14, 20486),
(16, 20498), (17, 20516),

Gene: Savannah_34 Start: 20345, Stop: 20569, Start Num: 7
Candidate Starts for Savannah_34:
(Start: 7 @20345 has 44 MA's), (Start: 9 @20372 has 2 MA's), (10, 20381), (12, 20438), (14, 20513),
(16, 20525), (17, 20543),

Gene: Scumberland_36 Start: 20534, Stop: 20758, Start Num: 7
Candidate Starts for Scumberland_36:
(Start: 7 @20534 has 44 MA's), (Start: 9 @20561 has 2 MA's), (10, 20570), (12, 20627), (14, 20702),
(16, 20714), (17, 20732),

Gene: Selwyn23_36 Start: 20511, Stop: 20735, Start Num: 7
Candidate Starts for Selwyn23_36:
(Start: 7 @20511 has 44 MA's), (Start: 9 @20538 has 2 MA's), (10, 20547), (12, 20604), (14, 20679),
(16, 20691), (17, 20709),

Gene: Shotgun_34 Start: 20144, Stop: 20368, Start Num: 7
Candidate Starts for Shotgun_34:
(Start: 7 @20144 has 44 MA's), (Start: 9 @20171 has 2 MA's), (10, 20180), (12, 20237), (14, 20312),
(16, 20324), (17, 20342),

Gene: Shrubaron_35 Start: 20036, Stop: 20260, Start Num: 7
Candidate Starts for Shrubaron_35:
(Start: 7 @20036 has 44 MA's), (Start: 9 @20063 has 2 MA's), (10, 20072), (12, 20129), (14, 20204),
(15, 20213), (17, 20234),

Gene: SirFrank_34 Start: 20246, Stop: 20470, Start Num: 7
Candidate Starts for SirFrank_34:
(1, 19619), (Start: 7 @20246 has 44 MA's), (Start: 9 @20273 has 2 MA's), (10, 20282), (12, 20339),
(16, 20426), (17, 20444),

Gene: Skugga_33 Start: 20135, Stop: 20359, Start Num: 7
Candidate Starts for Skugga_33:
(Start: 7 @20135 has 44 MA's), (Start: 9 @20162 has 2 MA's), (10, 20171), (12, 20228), (14, 20303),
(15, 20312), (17, 20333),

Gene: Smarties_43 Start: 22227, Stop: 22454, Start Num: 7
Candidate Starts for Smarties_43:
(Start: 7 @22227 has 44 MA's), (Start: 9 @22254 has 2 MA's), (10, 22263), (12, 22320), (15, 22404),

Gene: Sunny_ Start: 22380, Stop: 22604, Start Num: 7
Candidate Starts for Sunny_:

(Start: 7 @22380 has 44 MA's), (Start: 9 @22407 has 2 MA's), (11, 22446), (12, 22473), (13, 22491), (14, 22548), (15, 22557),

Gene: Teamocil_36 Start: 20245, Stop: 20442, Start Num: 9

Candidate Starts for Teamocil_36:

(Start: 9 @20245 has 2 MA's), (10, 20254), (12, 20311), (14, 20386), (15, 20395), (17, 20416),

Gene: Tyrumbra_33 Start: 19436, Stop: 19663, Start Num: 7

Candidate Starts for Tyrumbra_33:

(2, 18833), (Start: 7 @19436 has 44 MA's), (Start: 9 @19463 has 2 MA's), (10, 19472), (12, 19529), (14, 19604), (15, 19613),

Gene: Yeti_35 Start: 20313, Stop: 20537, Start Num: 7

Candidate Starts for Yeti_35:

(Start: 7 @20313 has 44 MA's), (Start: 9 @20340 has 2 MA's), (10, 20349), (12, 20406), (14, 20481), (16, 20493), (17, 20511),

Gene: Zapato_34 Start: 20158, Stop: 20382, Start Num: 7

Candidate Starts for Zapato_34:

(Start: 7 @20158 has 44 MA's), (Start: 9 @20185 has 2 MA's), (10, 20194), (12, 20251),