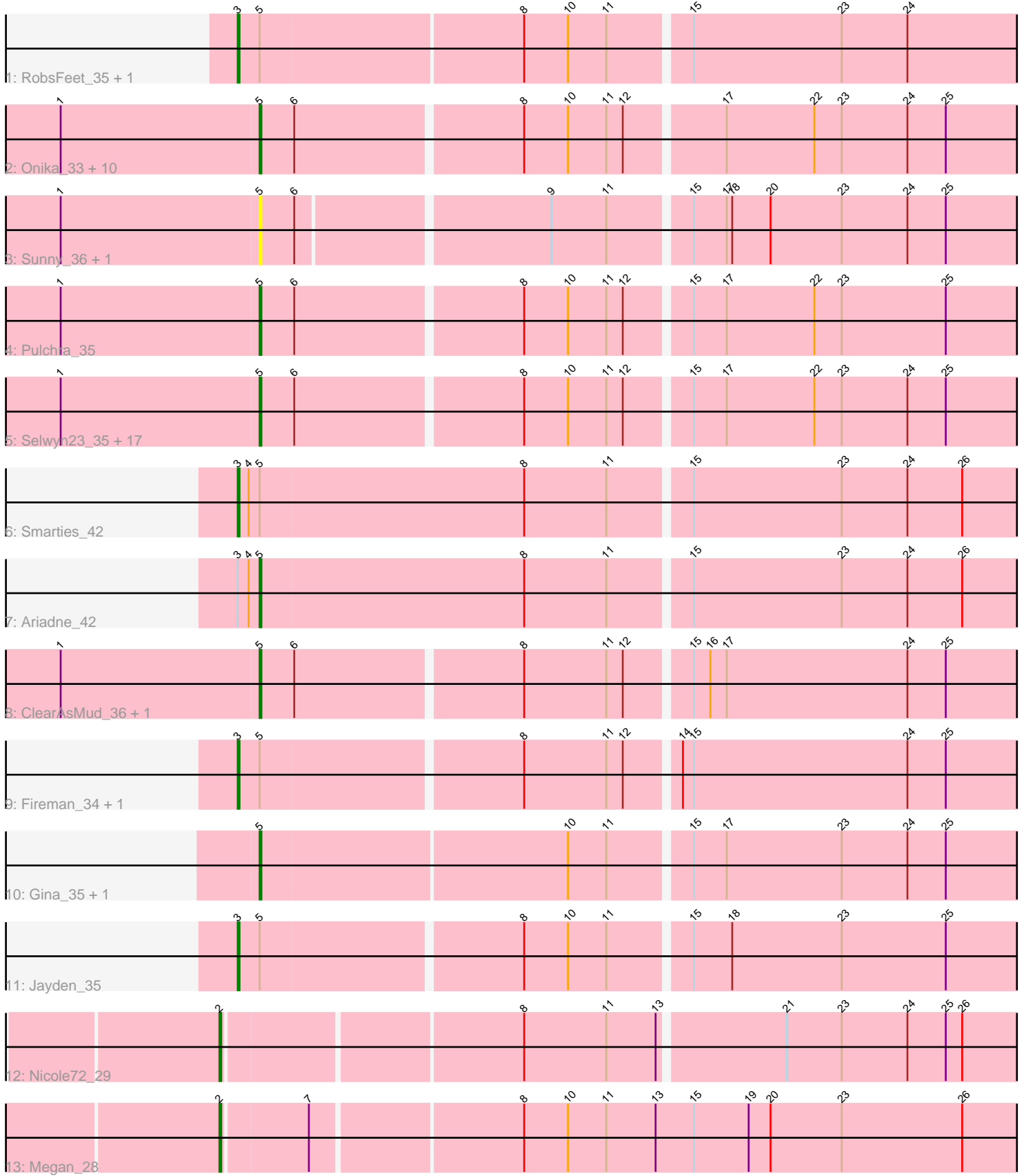


Pham 191363



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 191363 Report

This analysis was run 11/02/24 on database version 579.

Pham number 191363 has 45 members, 3 are drafts.

Phages represented in each track:

- Track 1 : RobsFeet_35, Metamorphoo_34
- Track 2 : Onika_33, Scumberland_35, Ramiel05_33, Antares_34, Kowalski_33, Phrancesco_34, Ganandorf_33, Hermeonysus_33, CrazyRich_33, Savannah_33, Busephilis_33
- Track 3 : Sunny_36, Merry_36
- Track 4 : Pulchra_35
- Track 5 : Selwyn23_35, Yeti_34, Piperis_34, Cranjis_35, Honeyfin_35, Jollipop_34, PiperSansNom_34, EarickHC_34, KaiHaiDragon_34, Paschalis_33, Shotgun_33, LittleFortune_35, Jefe_34, Quhwah_37, Phorgeous_33, BrazzalePHS_33, PierreOrion_34, Crisis_35
- Track 6 : Smarties_42
- Track 7 : Ariadne_42
- Track 8 : ClearAsMud_36, NoodlelyBoi_34
- Track 9 : Fireman_34, Tyrumbra_32
- Track 10 : Gina_35, Teamocil_35
- Track 11 : Jayden_35
- Track 12 : Nicole72_29
- Track 13 : Megan_28

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

The start number called the most often in the published annotations is 5, it was called in 34 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_34, Ariadne_42, BrazzalePHS_33, Busephilis_33, ClearAsMud_36, Cranjis_35, CrazyRich_33, Crisis_35, EarickHC_34, Ganandorf_33, Gina_35, Hermeonysus_33, Honeyfin_35, Jefe_34, Jollipop_34, KaiHaiDragon_34, Kowalski_33, LittleFortune_35, Merry_36, NoodlelyBoi_34, Onika_33, Paschalis_33, Phorgeous_33, Phrancesco_34, PierreOrion_34, PiperSansNom_34, Piperis_34, Pulchra_35, Quhwah_37, Ramiel05_33, Savannah_33, Scumberland_35, Selwyn23_35, Shotgun_33, Sunny_36, Teamocil_35, Yeti_34,

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

- Fireman_34, Jayden_35, Metamorphoo_34, RobsFeet_35, Smarties_42, Tyrumbra_32,

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

- Megan_28, Nicole72_29,

Summary by start number:

Start 2:

- Found in 2 of 45 (4.4%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Megan_28 (EC), Nicole72_29 (EC),

Start 3:

- Found in 7 of 45 (15.6%) of genes in pham
- Manual Annotations of this start: 6 of 42
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Fireman_34 (EC), Jayden_35 (EC), Metamorphoo_34 (EC), RobsFeet_35 (EC), Smarties_42 (EC), Tyrumbra_32 (EC),

Start 5:

- Found in 43 of 45 (95.6%) of genes in pham
- Manual Annotations of this start: 34 of 42
- Called 86.0% of time when present
- Phage (with cluster) where this start called: Antares_34 (EC), Ariadne_42 (EC), BrazzalePHS_33 (EC), Busephilis_33 (EC), ClearAsMud_36 (EC), Cranjis_35 (EC), CrazyRich_33 (EC), Crisis_35 (EC), EarickHC_34 (EC), Ganandorf_33 (EC), Gina_35 (EC), Hermeonysus_33 (EC), Honeyfin_35 (EC), Jefe_34 (EC), Jollipop_34 (EC), KaiHaiDragon_34 (EC), Kowalski_33 (EC), LittleFortune_35 (EC), Merry_36 (EC), NoodlelyBoi_34 (EC), Onika_33 (EC), Paschalis_33 (EC), Phorgeous_33 (EC), Phrancesco_34 (EC), PierreOrion_34 (EC), PiperSansNom_34 (EC), Piperis_34 (EC), Pulchra_35 (EC), Quhwah_37 (EC), Ramiel05_33 (EC), Savannah_33 (EC), Scumberland_35 (EC), Selwyn23_35 (EC), Shotgun_33 (EC), Sunny_36 (EC), Teamocil_35 (EC), Yeti_34 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 2 was manually annotated 2 times for cluster EC.
- Start number 3 was manually annotated 6 times for cluster EC.
- Start number 5 was manually annotated 34 times for cluster EC.

Gene Information:

Gene: Antares_34 Start: 20033, Stop: 20461, Start Num: 5

Candidate Starts for Antares_34:

(1, 19925), (Start: 5 @20033 has 34 MA's), (6, 20051), (8, 20171), (10, 20195), (11, 20216), (12, 20225), (17, 20276), (22, 20324), (23, 20339), (24, 20375), (25, 20396),

Gene: Ariadne_42 Start: 21727, Stop: 22140, Start Num: 5

Candidate Starts for Ariadne_42:

(Start: 3 @21715 has 6 MA's), (4, 21721), (Start: 5 @21727 has 34 MA's), (8, 21871), (11, 21916), (15, 21958), (23, 22039), (24, 22075), (26, 22105),

Gene: BrazzalePHS_33 Start: 19828, Stop: 20256, Start Num: 5

Candidate Starts for BrazzalePHS_33:

(1, 19720), (Start: 5 @19828 has 34 MA's), (6, 19846), (8, 19966), (10, 19990), (11, 20011), (12, 20020), (15, 20053), (17, 20071), (22, 20119), (23, 20134), (24, 20170), (25, 20191),

Gene: Busephilis_33 Start: 19763, Stop: 20191, Start Num: 5

Candidate Starts for Busephilis_33:

(1, 19655), (Start: 5 @19763 has 34 MA's), (6, 19781), (8, 19901), (10, 19925), (11, 19946), (12, 19955), (17, 20006), (22, 20054), (23, 20069), (24, 20105), (25, 20126),

Gene: ClearAsMud_36 Start: 20542, Stop: 20970, Start Num: 5

Candidate Starts for ClearAsMud_36:

(1, 20434), (Start: 5 @20542 has 34 MA's), (6, 20560), (8, 20680), (11, 20725), (12, 20734), (15, 20767), (16, 20776), (17, 20785), (24, 20884), (25, 20905),

Gene: Cranjis_35 Start: 19988, Stop: 20416, Start Num: 5

Candidate Starts for Cranjis_35:

(1, 19880), (Start: 5 @19988 has 34 MA's), (6, 20006), (8, 20126), (10, 20150), (11, 20171), (12, 20180), (15, 20213), (17, 20231), (22, 20279), (23, 20294), (24, 20330), (25, 20351),

Gene: CrazyRich_33 Start: 19797, Stop: 20225, Start Num: 5

Candidate Starts for CrazyRich_33:

(1, 19689), (Start: 5 @19797 has 34 MA's), (6, 19815), (8, 19935), (10, 19959), (11, 19980), (12, 19989), (17, 20040), (22, 20088), (23, 20103), (24, 20139), (25, 20160),

Gene: Crisis_35 Start: 19782, Stop: 20210, Start Num: 5

Candidate Starts for Crisis_35:

(1, 19674), (Start: 5 @19782 has 34 MA's), (6, 19800), (8, 19920), (10, 19944), (11, 19965), (12, 19974), (15, 20007), (17, 20025), (22, 20073), (23, 20088), (24, 20124), (25, 20145),

Gene: EarickHC_34 Start: 19708, Stop: 20136, Start Num: 5

Candidate Starts for EarickHC_34:

(1, 19600), (Start: 5 @19708 has 34 MA's), (6, 19726), (8, 19846), (10, 19870), (11, 19891), (12, 19900), (15, 19933), (17, 19951), (22, 19999), (23, 20014), (24, 20050), (25, 20071),

Gene: Fireman_34 Start: 19587, Stop: 20027, Start Num: 3

Candidate Starts for Fireman_34:

(Start: 3 @19587 has 6 MA's), (Start: 5 @19599 has 34 MA's), (8, 19737), (11, 19782), (12, 19791), (14, 19818), (15, 19824), (24, 19941), (25, 19962),

Gene: Ganandorf_33 Start: 19844, Stop: 20272, Start Num: 5

Candidate Starts for Ganandorf_33:

(1, 19736), (Start: 5 @19844 has 34 MA's), (6, 19862), (8, 19982), (10, 20006), (11, 20027), (12, 20036), (17, 20087), (22, 20135), (23, 20150), (24, 20186), (25, 20207),

Gene: Gina_35 Start: 19622, Stop: 20053, Start Num: 5

Candidate Starts for Gina_35:

(Start: 5 @19622 has 34 MA's), (10, 19787), (11, 19808), (15, 19850), (17, 19868), (23, 19931), (24, 19967), (25, 19988),

Gene: Hermeonysus_33 Start: 19717, Stop: 20145, Start Num: 5

Candidate Starts for Hermeonysus_33:

(1, 19609), (Start: 5 @19717 has 34 MA's), (6, 19735), (8, 19855), (10, 19879), (11, 19900), (12, 19909), (17, 19960), (22, 20008), (23, 20023), (24, 20059), (25, 20080),

Gene: Honeyfin_35 Start: 20032, Stop: 20460, Start Num: 5

Candidate Starts for Honeyfin_35:

(1, 19924), (Start: 5 @20032 has 34 MA's), (6, 20050), (8, 20170), (10, 20194), (11, 20215), (12, 20224), (15, 20257), (17, 20275), (22, 20323), (23, 20338), (24, 20374), (25, 20395),

Gene: Jayden_35 Start: 19763, Stop: 20203, Start Num: 3

Candidate Starts for Jayden_35:

(Start: 3 @19763 has 6 MA's), (Start: 5 @19775 has 34 MA's), (8, 19913), (10, 19937), (11, 19958), (15, 20000), (18, 20021), (23, 20081), (25, 20138),

Gene: Jefe_34 Start: 19769, Stop: 20197, Start Num: 5

Candidate Starts for Jefe_34:

(1, 19661), (Start: 5 @19769 has 34 MA's), (6, 19787), (8, 19907), (10, 19931), (11, 19952), (12, 19961), (15, 19994), (17, 20012), (22, 20060), (23, 20075), (24, 20111), (25, 20132),

Gene: Jollipop_34 Start: 20114, Stop: 20542, Start Num: 5

Candidate Starts for Jollipop_34:

(1, 20006), (Start: 5 @20114 has 34 MA's), (6, 20132), (8, 20252), (10, 20276), (11, 20297), (12, 20306), (15, 20339), (17, 20357), (22, 20405), (23, 20420), (24, 20456), (25, 20477),

Gene: KaiHaiDragon_34 Start: 19708, Stop: 20136, Start Num: 5

Candidate Starts for KaiHaiDragon_34:

(1, 19600), (Start: 5 @19708 has 34 MA's), (6, 19726), (8, 19846), (10, 19870), (11, 19891), (12, 19900), (15, 19933), (17, 19951), (22, 19999), (23, 20014), (24, 20050), (25, 20071),

Gene: Kowalski_33 Start: 19824, Stop: 20252, Start Num: 5

Candidate Starts for Kowalski_33:

(1, 19716), (Start: 5 @19824 has 34 MA's), (6, 19842), (8, 19962), (10, 19986), (11, 20007), (12, 20016), (17, 20067), (22, 20115), (23, 20130), (24, 20166), (25, 20187),

Gene: LittleFortune_35 Start: 20074, Stop: 20502, Start Num: 5

Candidate Starts for LittleFortune_35:

(1, 19966), (Start: 5 @20074 has 34 MA's), (6, 20092), (8, 20212), (10, 20236), (11, 20257), (12, 20266), (15, 20299), (17, 20317), (22, 20365), (23, 20380), (24, 20416), (25, 20437),

Gene: Megan_28 Start: 21122, Stop: 21574, Start Num: 2

Candidate Starts for Megan_28:

(Start: 2 @21122 has 2 MA's), (7, 21167), (8, 21278), (10, 21302), (11, 21323), (13, 21350), (15, 21371), (19, 21401), (20, 21413), (23, 21452), (26, 21518),

Gene: Merry_36 Start: 21887, Stop: 22312, Start Num: 5

Candidate Starts for Merry_36:

(1, 21779), (Start: 5 @21887 has 34 MA's), (6, 21905), (9, 22037), (11, 22067), (15, 22109), (17, 22127), (18, 22130), (20, 22151), (23, 22190), (24, 22226), (25, 22247),

Gene: Metamorphoo_34 Start: 19612, Stop: 20055, Start Num: 3
Candidate Starts for Metamorphoo_34:
(Start: 3 @19612 has 6 MA's), (Start: 5 @19624 has 34 MA's), (8, 19765), (10, 19789), (11, 19810),
(15, 19852), (23, 19933), (24, 19969),

Gene: Nicole72_29 Start: 21490, Stop: 21936, Start Num: 2
Candidate Starts for Nicole72_29:
(Start: 2 @21490 has 2 MA's), (8, 21646), (11, 21691), (13, 21718), (21, 21784), (23, 21814), (24,
21850), (25, 21871), (26, 21880),

Gene: NoodlelyBoi_34 Start: 20152, Stop: 20580, Start Num: 5
Candidate Starts for NoodlelyBoi_34:
(1, 20044), (Start: 5 @20152 has 34 MA's), (6, 20170), (8, 20290), (11, 20335), (12, 20344), (15,
20377), (16, 20386), (17, 20395), (24, 20494), (25, 20515),

Gene: Onika_33 Start: 19799, Stop: 20227, Start Num: 5
Candidate Starts for Onika_33:
(1, 19691), (Start: 5 @19799 has 34 MA's), (6, 19817), (8, 19937), (10, 19961), (11, 19982), (12,
19991), (17, 20042), (22, 20090), (23, 20105), (24, 20141), (25, 20162),

Gene: Paschalis_33 Start: 19812, Stop: 20240, Start Num: 5
Candidate Starts for Paschalis_33:
(1, 19704), (Start: 5 @19812 has 34 MA's), (6, 19830), (8, 19950), (10, 19974), (11, 19995), (12,
20004), (15, 20037), (17, 20055), (22, 20103), (23, 20118), (24, 20154), (25, 20175),

Gene: Phorgeous_33 Start: 19666, Stop: 20094, Start Num: 5
Candidate Starts for Phorgeous_33:
(1, 19558), (Start: 5 @19666 has 34 MA's), (6, 19684), (8, 19804), (10, 19828), (11, 19849), (12,
19858), (15, 19891), (17, 19909), (22, 19957), (23, 19972), (24, 20008), (25, 20029),

Gene: Phrancesco_34 Start: 19944, Stop: 20372, Start Num: 5
Candidate Starts for Phrancesco_34:
(1, 19836), (Start: 5 @19944 has 34 MA's), (6, 19962), (8, 20082), (10, 20106), (11, 20127), (12,
20136), (17, 20187), (22, 20235), (23, 20250), (24, 20286), (25, 20307),

Gene: PierreOrion_34 Start: 19967, Stop: 20395, Start Num: 5
Candidate Starts for PierreOrion_34:
(1, 19859), (Start: 5 @19967 has 34 MA's), (6, 19985), (8, 20105), (10, 20129), (11, 20150), (12,
20159), (15, 20192), (17, 20210), (22, 20258), (23, 20273), (24, 20309), (25, 20330),

Gene: PiperSansNom_34 Start: 20119, Stop: 20547, Start Num: 5
Candidate Starts for PiperSansNom_34:
(1, 20011), (Start: 5 @20119 has 34 MA's), (6, 20137), (8, 20257), (10, 20281), (11, 20302), (12,
20311), (15, 20344), (17, 20362), (22, 20410), (23, 20425), (24, 20461), (25, 20482),

Gene: Piperis_34 Start: 19789, Stop: 20217, Start Num: 5
Candidate Starts for Piperis_34:
(1, 19681), (Start: 5 @19789 has 34 MA's), (6, 19807), (8, 19927), (10, 19951), (11, 19972), (12,
19981), (15, 20014), (17, 20032), (22, 20080), (23, 20095), (24, 20131), (25, 20152),

Gene: Pulchra_35 Start: 20189, Stop: 20617, Start Num: 5
Candidate Starts for Pulchra_35:

(1, 20081), (Start: 5 @20189 has 34 MA's), (6, 20207), (8, 20327), (10, 20351), (11, 20372), (12, 20381), (15, 20414), (17, 20432), (22, 20480), (23, 20495), (25, 20552),

Gene: Quhwah_37 Start: 20415, Stop: 20843, Start Num: 5

Candidate Starts for Quhwah_37:

(1, 20307), (Start: 5 @20415 has 34 MA's), (6, 20433), (8, 20553), (10, 20577), (11, 20598), (12, 20607), (15, 20640), (17, 20658), (22, 20706), (23, 20721), (24, 20757), (25, 20778),

Gene: Ramiel05_33 Start: 19824, Stop: 20252, Start Num: 5

Candidate Starts for Ramiel05_33:

(1, 19716), (Start: 5 @19824 has 34 MA's), (6, 19842), (8, 19962), (10, 19986), (11, 20007), (12, 20016), (17, 20067), (22, 20115), (23, 20130), (24, 20166), (25, 20187),

Gene: RobsFeet_35 Start: 19893, Stop: 20336, Start Num: 3

Candidate Starts for RobsFeet_35:

(Start: 3 @19893 has 6 MA's), (Start: 5 @19905 has 34 MA's), (8, 20046), (10, 20070), (11, 20091), (15, 20133), (23, 20214), (24, 20250),

Gene: Savannah_33 Start: 19851, Stop: 20279, Start Num: 5

Candidate Starts for Savannah_33:

(1, 19743), (Start: 5 @19851 has 34 MA's), (6, 19869), (8, 19989), (10, 20013), (11, 20034), (12, 20043), (17, 20094), (22, 20142), (23, 20157), (24, 20193), (25, 20214),

Gene: Scumberland_35 Start: 20040, Stop: 20468, Start Num: 5

Candidate Starts for Scumberland_35:

(1, 19932), (Start: 5 @20040 has 34 MA's), (6, 20058), (8, 20178), (10, 20202), (11, 20223), (12, 20232), (17, 20283), (22, 20331), (23, 20346), (24, 20382), (25, 20403),

Gene: Selwyn23_35 Start: 20017, Stop: 20445, Start Num: 5

Candidate Starts for Selwyn23_35:

(1, 19909), (Start: 5 @20017 has 34 MA's), (6, 20035), (8, 20155), (10, 20179), (11, 20200), (12, 20209), (15, 20242), (17, 20260), (22, 20308), (23, 20323), (24, 20359), (25, 20380),

Gene: Shotgun_33 Start: 19650, Stop: 20078, Start Num: 5

Candidate Starts for Shotgun_33:

(1, 19542), (Start: 5 @19650 has 34 MA's), (6, 19668), (8, 19788), (10, 19812), (11, 19833), (12, 19842), (15, 19875), (17, 19893), (22, 19941), (23, 19956), (24, 19992), (25, 20013),

Gene: Smarties_42 Start: 21715, Stop: 22140, Start Num: 3

Candidate Starts for Smarties_42:

(Start: 3 @21715 has 6 MA's), (4, 21721), (Start: 5 @21727 has 34 MA's), (8, 21871), (11, 21916), (15, 21958), (23, 22039), (24, 22075), (26, 22105),

Gene: Sunny_36 Start: 21889, Stop: 22314, Start Num: 5

Candidate Starts for Sunny_36:

(1, 21781), (Start: 5 @21889 has 34 MA's), (6, 21907), (9, 22039), (11, 22069), (15, 22111), (17, 22129), (18, 22132), (20, 22153), (23, 22192), (24, 22228), (25, 22249),

Gene: Teamocil_35 Start: 19721, Stop: 20152, Start Num: 5

Candidate Starts for Teamocil_35:

(Start: 5 @19721 has 34 MA's), (10, 19886), (11, 19907), (15, 19949), (17, 19967), (23, 20030), (24, 20066), (25, 20087),

Gene: Tyumbra_32 Start: 18930, Stop: 19370, Start Num: 3

Candidate Starts for Tyumbra_32:

(Start: 3 @18930 has 6 MA's), (Start: 5 @18942 has 34 MA's), (8, 19080), (11, 19125), (12, 19134), (14, 19161), (15, 19167), (24, 19284), (25, 19305),

Gene: Yeti_34 Start: 19819, Stop: 20247, Start Num: 5

Candidate Starts for Yeti_34:

(1, 19711), (Start: 5 @19819 has 34 MA's), (6, 19837), (8, 19957), (10, 19981), (11, 20002), (12, 20011), (15, 20044), (17, 20062), (22, 20110), (23, 20125), (24, 20161), (25, 20182),