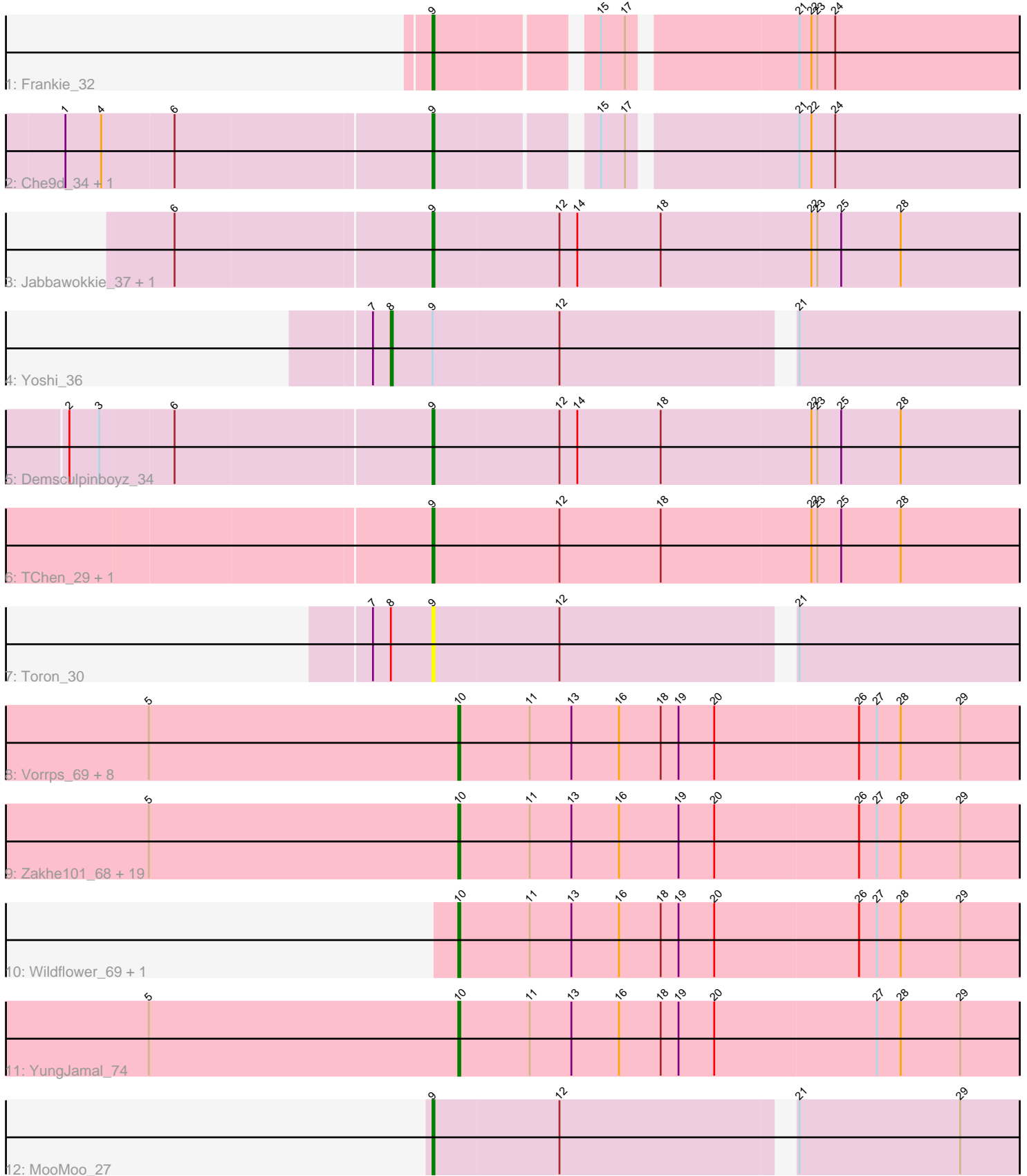


Pham 224698



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 224698 Report

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

Pham number 224698 has 43 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Frankie_32
- Track 2 : Che9d_34, Avani_34
- Track 3 : Jabbawokkie_37, Zapner_36
- Track 4 : Yoshi_36
- Track 5 : Demsculpinboyz_34
- Track 6 : TChen_29, LunaStella_31
- Track 7 : Toron_30
- Track 8 : Vorrps_69, JangDynasty_69, Corndog_72, Mori_69, Firecracker_71, Smooch_72, MadKillah_70, Wogge42_68, KingPhillip3_68
- Track 9 : Zakhe101_68, Murai_70, Alkhayr_67, Schuy_70, FoulBall_69, Winget_70, Shida_69, Idergollasper_69, SchoolBus_69, Zebo_68, TelAviv_66, NiebruSaylor_68, Blessica_70, Vagabond_69, Ryadel_73, Bora_67, Krili_68, Catdawg_69, Dylan_69, Familton_70
- Track 10 : Wildflower_69, Ashwin_71
- Track 11 : YungJamal_74
- Track 12 : MooMoo_27

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

The start number called the most often in the published annotations is 10, it was called in 28 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_67, Ashwin_71, Blessica_70, Bora_67, Catdawg_69, Corndog_72, Dylan_69, Familton_70, Firecracker_71, FoulBall_69, Idergollasper_69, JangDynasty_69, KingPhillip3_68, Krili_68, MadKillah_70, Mori_69, Murai_70, NiebruSaylor_68, Ryadel_73, SchoolBus_69, Schuy_70, Shida_69, Smooch_72, TelAviv_66, Vagabond_69, Vorrps_69, Wildflower_69, Winget_70, Wogge42_68, YungJamal_74, Zakhe101_68, Zebo_68,

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

-

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

- Avani_34, Che9d_34, Demsculpinboyz_34, Frankie_32, Jabbawokkie_37, LunaStella_31, MooMoo_27, TChen_29, Toron_30, Yoshi_36, Zapner_36,

Summary by start number:

Start 8:

- Found in 2 of 43 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Yoshi_36 (F2),

Start 9:

- Found in 11 of 43 (25.6%) of genes in pham
- Manual Annotations of this start: 9 of 38
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Avani_34 (F2), Che9d_34 (F2), Demsculpinboyz_34 (F2), Frankie_32 (F1), Jabbawokkie_37 (F2), LunaStella_31 (F4), MooMoo_27 (singleton), TChen_29 (F4), Toron_30 (F6), Zapner_36 (F2),

Start 10:

- Found in 32 of 43 (74.4%) of genes in pham
- Manual Annotations of this start: 28 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_67 (O), Ashwin_71 (O), Blessica_70 (O), Bora_67 (O), Catdawg_69 (O), Corndog_72 (O), Dylan_69 (O), Familton_70 (O), Firecracker_71 (O), FoulBall_69 (O), Idergollasper_69 (O), JangDynasty_69 (O), KingPhillip3_68 (O), Krili_68 (O), MadKillah_70 (O), Mori_69 (O), Murai_70 (O), NiebruSaylor_68 (O), Ryadel_73 (O), SchoolBus_69 (O), Schuy_70 (O), Shida_69 (O), Smooch_72 (O), TelAviv_66 (O), Vagabond_69 (O), Vorrrps_69 (O), Wildflower_69 (O), Winget_70 (O), Wogge42_68 (O), YungJamal_74 (O), Zakhe101_68 (O), Zebo_68 (O),

Summary by clusters:

There are 6 clusters represented in this pham: F1, F2, F4, F6, singleton, O,

Info for manual annotations of cluster F1:

- Start number 9 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 8 was manually annotated 1 time for cluster F2.
- Start number 9 was manually annotated 5 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 9 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster O:

- Start number 10 was manually annotated 28 times for cluster O.

Gene Information:

Gene: Alkhayr_67 Start: 44479, Stop: 44778, Start Num: 10

Candidate Starts for Alkhayr_67:

(5, 44323), (Start: 10 @44479 has 28 MA's), (11, 44515), (13, 44536), (16, 44560), (19, 44590), (20, 44608), (26, 44680), (27, 44689), (28, 44701), (29, 44731),

Gene: Ashwin_71 Start: 45249, Stop: 45548, Start Num: 10

Candidate Starts for Ashwin_71:

(Start: 10 @45249 has 28 MA's), (11, 45285), (13, 45306), (16, 45330), (18, 45351), (19, 45360), (20, 45378), (26, 45450), (27, 45459), (28, 45471), (29, 45501),

Gene: Avani_34 Start: 25152, Stop: 25445, Start Num: 9

Candidate Starts for Avani_34:

(1, 24972), (4, 24990), (6, 25026), (Start: 9 @25152 has 9 MA's), (15, 25224), (17, 25236), (21, 25314), (22, 25320), (24, 25332),

Gene: Blessica_70 Start: 45078, Stop: 45377, Start Num: 10

Candidate Starts for Blessica_70:

(5, 44922), (Start: 10 @45078 has 28 MA's), (11, 45114), (13, 45135), (16, 45159), (19, 45189), (20, 45207), (26, 45279), (27, 45288), (28, 45300), (29, 45330),

Gene: Bora_67 Start: 44459, Stop: 44758, Start Num: 10

Candidate Starts for Bora_67:

(5, 44303), (Start: 10 @44459 has 28 MA's), (11, 44495), (13, 44516), (16, 44540), (19, 44570), (20, 44588), (26, 44660), (27, 44669), (28, 44681), (29, 44711),

Gene: Catdawg_69 Start: 44814, Stop: 45113, Start Num: 10

Candidate Starts for Catdawg_69:

(5, 44658), (Start: 10 @44814 has 28 MA's), (11, 44850), (13, 44871), (16, 44895), (19, 44925), (20, 44943), (26, 45015), (27, 45024), (28, 45036), (29, 45066),

Gene: Che9d_34 Start: 25160, Stop: 25453, Start Num: 9

Candidate Starts for Che9d_34:

(1, 24980), (4, 24998), (6, 25034), (Start: 9 @25160 has 9 MA's), (15, 25232), (17, 25244), (21, 25322), (22, 25328), (24, 25340),

Gene: Corndog_72 Start: 45808, Stop: 46107, Start Num: 10

Candidate Starts for Corndog_72:

(5, 45652), (Start: 10 @45808 has 28 MA's), (11, 45844), (13, 45865), (16, 45889), (18, 45910), (19, 45919), (20, 45937), (26, 46009), (27, 46018), (28, 46030), (29, 46060),

Gene: Demsculpinboyz_34 Start: 25143, Stop: 25457, Start Num: 9

Candidate Starts for Demsculpinboyz_34:

(2, 24966), (3, 24981), (6, 25017), (Start: 9 @25143 has 9 MA's), (12, 25206), (14, 25215), (18, 25257), (22, 25332), (23, 25335), (25, 25347), (28, 25377),

Gene: Dylan_69 Start: 44861, Stop: 45160, Start Num: 10

Candidate Starts for Dylan_69:

(5, 44705), (Start: 10 @44861 has 28 MA's), (11, 44897), (13, 44918), (16, 44942), (19, 44972), (20, 44990), (26, 45062), (27, 45071), (28, 45083), (29, 45113),

Gene: Familton_70 Start: 44771, Stop: 45070, Start Num: 10

Candidate Starts for Familton_70:

(5, 44615), (Start: 10 @44771 has 28 MA's), (11, 44807), (13, 44828), (16, 44852), (19, 44882), (20, 44900), (26, 44972), (27, 44981), (28, 44993), (29, 45023),

Gene: Firecracker_71 Start: 45161, Stop: 45460, Start Num: 10

Candidate Starts for Firecracker_71:

(5, 45005), (Start: 10 @45161 has 28 MA's), (11, 45197), (13, 45218), (16, 45242), (18, 45263), (19, 45272), (20, 45290), (26, 45362), (27, 45371), (28, 45383), (29, 45413),

Gene: FoulBall_69 Start: 44765, Stop: 45064, Start Num: 10

Candidate Starts for FoulBall_69:

(5, 44609), (Start: 10 @44765 has 28 MA's), (11, 44801), (13, 44822), (16, 44846), (19, 44876), (20, 44894), (26, 44966), (27, 44975), (28, 44987), (29, 45017),

Gene: Frankie_32 Start: 26616, Stop: 26909, Start Num: 9

Candidate Starts for Frankie_32:

(Start: 9 @26616 has 9 MA's), (15, 26688), (17, 26700), (21, 26778), (22, 26784), (23, 26787), (24, 26796),

Gene: Idergollasper_69 Start: 44765, Stop: 45064, Start Num: 10

Candidate Starts for Idergollasper_69:

(5, 44609), (Start: 10 @44765 has 28 MA's), (11, 44801), (13, 44822), (16, 44846), (19, 44876), (20, 44894), (26, 44966), (27, 44975), (28, 44987), (29, 45017),

Gene: Jabbawokkie_37 Start: 26591, Stop: 26905, Start Num: 9

Candidate Starts for Jabbawokkie_37:

(6, 26465), (Start: 9 @26591 has 9 MA's), (12, 26654), (14, 26663), (18, 26705), (22, 26780), (23, 26783), (25, 26795), (28, 26825),

Gene: JangDynasty_69 Start: 44851, Stop: 45150, Start Num: 10

Candidate Starts for JangDynasty_69:

(5, 44695), (Start: 10 @44851 has 28 MA's), (11, 44887), (13, 44908), (16, 44932), (18, 44953), (19, 44962), (20, 44980), (26, 45052), (27, 45061), (28, 45073), (29, 45103),

Gene: KingPhillip3_68 Start: 44780, Stop: 45079, Start Num: 10

Candidate Starts for KingPhillip3_68:

(5, 44624), (Start: 10 @44780 has 28 MA's), (11, 44816), (13, 44837), (16, 44861), (18, 44882), (19, 44891), (20, 44909), (26, 44981), (27, 44990), (28, 45002), (29, 45032),

Gene: Krili_68 Start: 44275, Stop: 44574, Start Num: 10

Candidate Starts for Krili_68:

(5, 44119), (Start: 10 @44275 has 28 MA's), (11, 44311), (13, 44332), (16, 44356), (19, 44386), (20, 44404), (26, 44476), (27, 44485), (28, 44497), (29, 44527),

Gene: LunaStella_31 Start: 26515, Stop: 26829, Start Num: 9

Candidate Starts for LunaStella_31:

(Start: 9 @26515 has 9 MA's), (12, 26578), (18, 26629), (22, 26704), (23, 26707), (25, 26719), (28, 26749),

Gene: MadKillah_70 Start: 44544, Stop: 44843, Start Num: 10

Candidate Starts for MadKillah_70:

(5, 44388), (Start: 10 @44544 has 28 MA's), (11, 44580), (13, 44601), (16, 44625), (18, 44646), (19, 44655), (20, 44673), (26, 44745), (27, 44754), (28, 44766), (29, 44796),

Gene: MooMoo_27 Start: 25154, Stop: 25462, Start Num: 9
Candidate Starts for MooMoo_27:
(Start: 9 @25154 has 9 MA's), (12, 25217), (21, 25325), (29, 25406),

Gene: Mori_69 Start: 44806, Stop: 45105, Start Num: 10
Candidate Starts for Mori_69:
(5, 44650), (Start: 10 @44806 has 28 MA's), (11, 44842), (13, 44863), (16, 44887), (18, 44908), (19, 44917), (20, 44935), (26, 45007), (27, 45016), (28, 45028), (29, 45058),

Gene: Murai_70 Start: 44987, Stop: 45286, Start Num: 10
Candidate Starts for Murai_70:
(5, 44831), (Start: 10 @44987 has 28 MA's), (11, 45023), (13, 45044), (16, 45068), (19, 45098), (20, 45116), (26, 45188), (27, 45197), (28, 45209), (29, 45239),

Gene: NiebruSaylor_68 Start: 44194, Stop: 44493, Start Num: 10
Candidate Starts for NiebruSaylor_68:
(5, 44038), (Start: 10 @44194 has 28 MA's), (11, 44230), (13, 44251), (16, 44275), (19, 44305), (20, 44323), (26, 44395), (27, 44404), (28, 44416), (29, 44446),

Gene: Ryadel_73 Start: 45599, Stop: 45898, Start Num: 10
Candidate Starts for Ryadel_73:
(5, 45443), (Start: 10 @45599 has 28 MA's), (11, 45635), (13, 45656), (16, 45680), (19, 45710), (20, 45728), (26, 45800), (27, 45809), (28, 45821), (29, 45851),

Gene: SchoolBus_69 Start: 44759, Stop: 45046, Start Num: 10
Candidate Starts for SchoolBus_69:
(5, 44603), (Start: 10 @44759 has 28 MA's), (11, 44795), (13, 44816), (16, 44840), (19, 44870), (20, 44888), (26, 44948), (27, 44957), (28, 44969), (29, 44999),

Gene: Schuy_70 Start: 44550, Stop: 44849, Start Num: 10
Candidate Starts for Schuy_70:
(5, 44394), (Start: 10 @44550 has 28 MA's), (11, 44586), (13, 44607), (16, 44631), (19, 44661), (20, 44679), (26, 44751), (27, 44760), (28, 44772), (29, 44802),

Gene: Shida_69 Start: 44457, Stop: 44756, Start Num: 10
Candidate Starts for Shida_69:
(5, 44301), (Start: 10 @44457 has 28 MA's), (11, 44493), (13, 44514), (16, 44538), (19, 44568), (20, 44586), (26, 44658), (27, 44667), (28, 44679), (29, 44709),

Gene: Smooch_72 Start: 46503, Stop: 46802, Start Num: 10
Candidate Starts for Smooch_72:
(5, 46347), (Start: 10 @46503 has 28 MA's), (11, 46539), (13, 46560), (16, 46584), (18, 46605), (19, 46614), (20, 46632), (26, 46704), (27, 46713), (28, 46725), (29, 46755),

Gene: TChen_29 Start: 26516, Stop: 26830, Start Num: 9
Candidate Starts for TChen_29:
(Start: 9 @26516 has 9 MA's), (12, 26579), (18, 26630), (22, 26705), (23, 26708), (25, 26720), (28, 26750),

Gene: TelAviv_66 Start: 44732, Stop: 45031, Start Num: 10
Candidate Starts for TelAviv_66:
(5, 44576), (Start: 10 @44732 has 28 MA's), (11, 44768), (13, 44789), (16, 44813), (19, 44843), (20, 44861), (26, 44933), (27, 44942), (28, 44954), (29, 44984),

Gene: Toron_30 Start: 26439, Stop: 26747, Start Num: 9

Candidate Starts for Toron_30:

(7, 26409), (Start: 8 @26418 has 1 MA's), (Start: 9 @26439 has 9 MA's), (12, 26502), (21, 26610),

Gene: Vagabond_69 Start: 44595, Stop: 44894, Start Num: 10

Candidate Starts for Vagabond_69:

(5, 44439), (Start: 10 @44595 has 28 MA's), (11, 44631), (13, 44652), (16, 44676), (19, 44706), (20, 44724), (26, 44796), (27, 44805), (28, 44817), (29, 44847),

Gene: Vorrps_69 Start: 44807, Stop: 45106, Start Num: 10

Candidate Starts for Vorrps_69:

(5, 44651), (Start: 10 @44807 has 28 MA's), (11, 44843), (13, 44864), (16, 44888), (18, 44909), (19, 44918), (20, 44936), (26, 45008), (27, 45017), (28, 45029), (29, 45059),

Gene: Wildflower_69 Start: 44319, Stop: 44618, Start Num: 10

Candidate Starts for Wildflower_69:

(Start: 10 @44319 has 28 MA's), (11, 44355), (13, 44376), (16, 44400), (18, 44421), (19, 44430), (20, 44448), (26, 44520), (27, 44529), (28, 44541), (29, 44571),

Gene: Winget_70 Start: 45025, Stop: 45324, Start Num: 10

Candidate Starts for Winget_70:

(5, 44869), (Start: 10 @45025 has 28 MA's), (11, 45061), (13, 45082), (16, 45106), (19, 45136), (20, 45154), (26, 45226), (27, 45235), (28, 45247), (29, 45277),

Gene: Wogge42_68 Start: 44466, Stop: 44765, Start Num: 10

Candidate Starts for Wogge42_68:

(5, 44310), (Start: 10 @44466 has 28 MA's), (11, 44502), (13, 44523), (16, 44547), (18, 44568), (19, 44577), (20, 44595), (26, 44667), (27, 44676), (28, 44688), (29, 44718),

Gene: Yoshi_36 Start: 25524, Stop: 25847, Start Num: 8

Candidate Starts for Yoshi_36:

(7, 25515), (Start: 8 @25524 has 1 MA's), (Start: 9 @25545 has 9 MA's), (12, 25608), (21, 25716),

Gene: YungJamal_74 Start: 46217, Stop: 46516, Start Num: 10

Candidate Starts for YungJamal_74:

(5, 46061), (Start: 10 @46217 has 28 MA's), (11, 46253), (13, 46274), (16, 46298), (18, 46319), (19, 46328), (20, 46346), (27, 46427), (28, 46439), (29, 46469),

Gene: Zakhe101_68 Start: 44865, Stop: 45164, Start Num: 10

Candidate Starts for Zakhe101_68:

(5, 44709), (Start: 10 @44865 has 28 MA's), (11, 44901), (13, 44922), (16, 44946), (19, 44976), (20, 44994), (26, 45066), (27, 45075), (28, 45087), (29, 45117),

Gene: Zapner_36 Start: 26592, Stop: 26906, Start Num: 9

Candidate Starts for Zapner_36:

(6, 26466), (Start: 9 @26592 has 9 MA's), (12, 26655), (14, 26664), (18, 26706), (22, 26781), (23, 26784), (25, 26796), (28, 26826),

Gene: Zebo_68 Start: 44768, Stop: 45055, Start Num: 10

Candidate Starts for Zebo_68:

(5, 44612), (Start: 10 @44768 has 28 MA's), (11, 44804), (13, 44825), (16, 44849), (19, 44879), (20, 44897), (26, 44957), (27, 44966), (28, 44978), (29, 45008),

