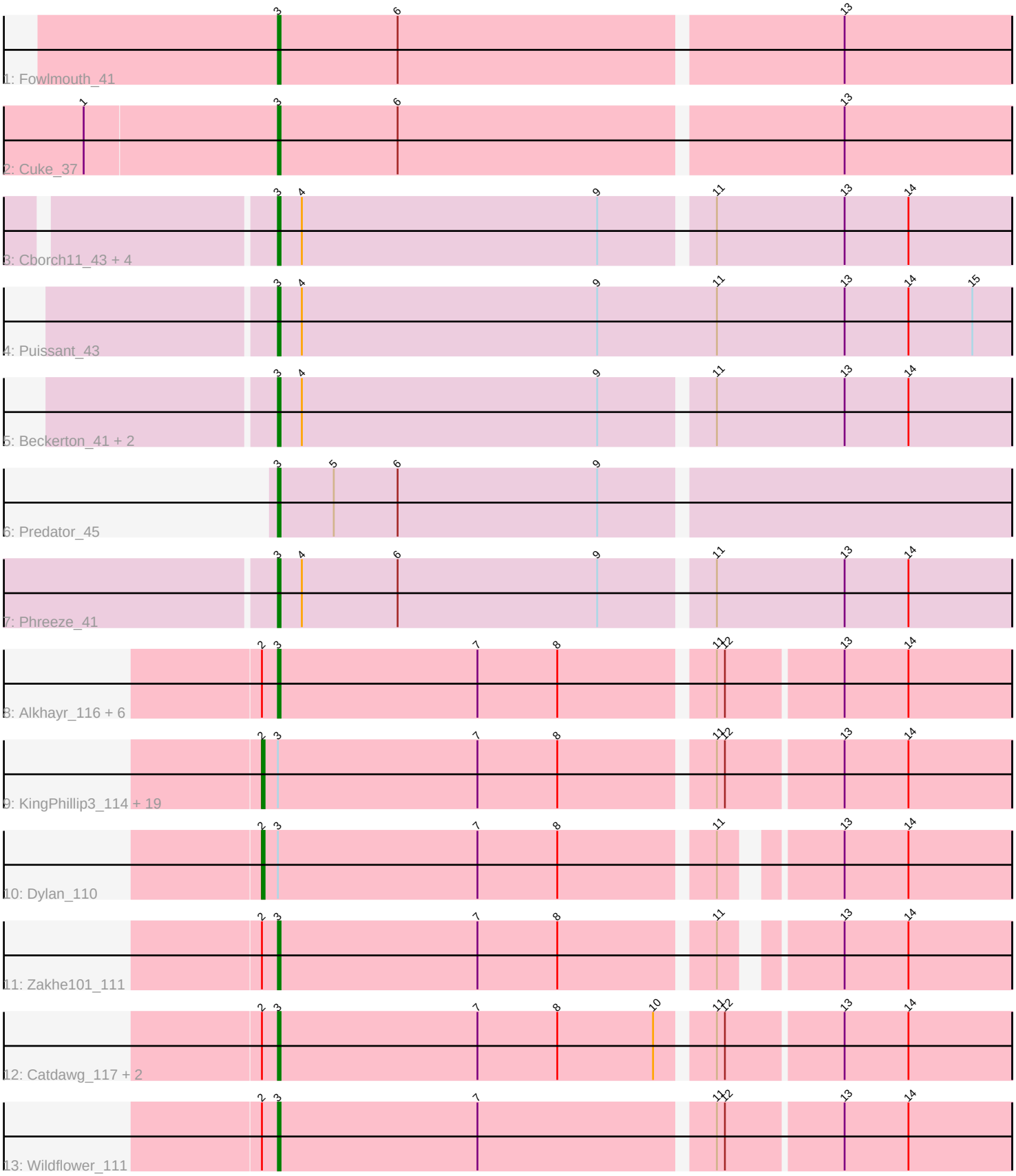
Pham 330977


1: Fowlmouth_41
2: Cuke_37
3: Cborch11_43 + 4
4: Puissant_43
5: Beckerton_41 + 2
6: Predator_45
7: Phreeze_41
8: Alkhayr_116 + 6
9: KingPhillip3_114 + 19
10: Dylan_110
11: Zakhe101_111
12: Catdawg_117 + 2
13: Wildflower_111

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 330977 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330977 has 46 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Fowlmouth_41
• Track 2 : Cuke_37
• Track 3 : Cborch11_43, Thumb_42, Oaker_41, Nish23_44, BobtimousPrime_43
• Track 4 : Puissant_43
• Track 5 : Beckerton_41, Megatron06_43, Damien_42
• Track 6 : Predator_45
• Track 7 : Phreeze_41
• Track 8 : Alkhayr_116, Ryadel_121, Bora_113, TelAviv_112, Krili_118, Zebo_115, Ashwin_111
• Track 9 : KingPhillip3_114, YoyoKar_112, FoulBall_115, Blessica_115, JangDynasty_114, Smooch_114, Schuy_116, NiebruSaylor_116, SchoolBus_117, Imara_115, MadKillah_119, Murai_116, Vagabond_115, Winget_116, Shida_115, Wogge42_111, Corndog_112, Familton_118, Idergollasper_120, Firecracker_116
• Track 10 : Dylan_110
• Track 11 : Zakhe101_111
• Track 12 : Catdawg_117, Vorrps_116, Mori_116
• Track 13 : Wildflower_111

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 24 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_116, Ashwin_111, Beckerton_41, BobtimousPrime_43, Bora_113, Catdawg_117, Cborch11_43, Cuke_37, Damien_42, Fowlmouth_41, Krili_118, Megatron06_43, Mori_116, Nish23_44, Oaker_41, Phreeze_41, Predator_45, Puissant_43, Ryadel_121, TelAviv_112, Thumb_42, Vorrps_116, Wildflower_111, Zakhe101_111, Zebo_115,

Genes that have the "Most Annotated" start but do not call it:
• Blessica_115, Corndog_112, Dylan_110, Familton_118, Firecracker_116, FoulBall_115, Idergollasper_120, Imara_115, JangDynasty_114, KingPhillip3_114, MadKillah_119, Murai_116, NiebruSaylor_116, SchoolBus_117, Schuy_116,

Shida_115, Smooch_114, Vagabond_115, Winget_116, Wogge42_111, YoyoKar_112,

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

Summary by start number:

Start 2:
• Found in 33 of 46 (71.7%) of genes in pham
• Manual Annotations of this start: 19 of 43
• Called 63.6% of time when present
• Phage (with cluster) where this start called: Blessica_115 (O), Corndog_112 (O), Dylan_110 (O), Familton_118 (O), Firecracker_116 (O), FoulBall_115 (O), Idergollasper_120 (O), Imara_115 (O), JangDynasty_114 (O), KingPhillip3_114 (O), MadKillah_119 (O), Murai_116 (O), NiebruSaylor_116 (O), SchoolBus_117 (O), Schuy_116 (O), Shida_115 (O), Smooch_114 (O), Vagabond_115 (O), Winget_116 (O), Wogge42_111 (O), YoyoKar_112 (O),

Start 3:
• Found in 46 of 46 (100.0%) of genes in pham
• Manual Annotations of this start: 24 of 43
• Called 54.3% of time when present
• Phage (with cluster) where this start called: Alkhayr_116 (O), Ashwin_111 (O), Beckerton_41 (H1), BobtimousPrime_43 (H1), Bora_113 (O), Catdawg_117 (O), Cborch11_43 (H1), Cuke_37 (AC), Damien_42 (H1), Fowlmouth_41 (AC), Krili_118 (O), Megatron06_43 (H1), Mori_116 (O), Nish23_44 (H1), Oaker_41 (H1), Phreeze_41 (H1), Predator_45 (H1), Puissant_43 (H1), Ryadel_121 (O), TelAviv_112 (O), Thumb_42 (H1), Vorrps_116 (O), Wildflower_111 (O), Zakhe101_111 (O), Zebo_115 (O),

Summary by clusters:

There are 3 clusters represented in this pham: AC, H1, O,

Info for manual annotations of cluster AC:
•Start number 3 was manually annotated 2 times for cluster AC.

Info for manual annotations of cluster H1:
•Start number 3 was manually annotated 10 times for cluster H1.

Info for manual annotations of cluster O:
•Start number 2 was manually annotated 19 times for cluster O.
•Start number 3 was manually annotated 12 times for cluster O.

Gene Information:

Gene: Alkhayr_116 Start: 66773, Stop: 66507, Start Num: 3
Candidate Starts for Alkhayr_116:
(Start: 2 @66779 has 19 MA's), (Start: 3 @66773 has 24 MA's), (7, 66698), (8, 66668), (11, 66614), (12, 66611), (13, 66569), (14, 66545),

Gene: Ashwin_111 Start: 65671, Stop: 65414, Start Num: 3
Candidate Starts for Ashwin_111:
(Start: 2 @65677 has 19 MA's), (Start: 3 @65671 has 24 MA's), (7, 65596), (8, 65566), (11, 65512), (12, 65509), (13, 65476), (14, 65452),

Gene: Beckerton_41 Start: 38294, Stop: 38563, Start Num: 3
Candidate Starts for Beckerton_41:
(Start: 3 @38294 has 24 MA's), (4, 38303), (9, 38414), (11, 38453), (13, 38501), (14, 38525),

Gene: Blessica_115 Start: 67445, Stop: 67173, Start Num: 2
Candidate Starts for Blessica_115:
(Start: 2 @67445 has 19 MA's), (Start: 3 @67439 has 24 MA's), (7, 67364), (8, 67334), (11, 67280), (12, 67277), (13, 67235), (14, 67211),

Gene: BobtimousPrime_43 Start: 38207, Stop: 38476, Start Num: 3
Candidate Starts for BobtimousPrime_43:
(Start: 3 @38207 has 24 MA's), (4, 38216), (9, 38327), (11, 38366), (13, 38414), (14, 38438),

Gene: Bora_113 Start: 67457, Stop: 67191, Start Num: 3
Candidate Starts for Bora_113:
(Start: 2 @67463 has 19 MA's), (Start: 3 @67457 has 24 MA's), (7, 67382), (8, 67352), (11, 67298), (12, 67295), (13, 67253), (14, 67229),

Gene: Catdawg_117 Start: 68093, Stop: 67827, Start Num: 3
Candidate Starts for Catdawg_117:
(Start: 2 @68099 has 19 MA's), (Start: 3 @68093 has 24 MA's), (7, 68018), (8, 67988), (10, 67952), (11, 67934), (12, 67931), (13, 67889), (14, 67865),

Gene: Cborch11_43 Start: 37756, Stop: 38025, Start Num: 3
Candidate Starts for Cborch11_43:
(Start: 3 @37756 has 24 MA's), (4, 37765), (9, 37876), (11, 37915), (13, 37963), (14, 37987),

Gene: Corndog_112 Start: 65734, Stop: 65462, Start Num: 2
Candidate Starts for Corndog_112:
(Start: 2 @65734 has 19 MA's), (Start: 3 @65728 has 24 MA's), (7, 65653), (8, 65623), (11, 65569), (12, 65566), (13, 65524), (14, 65500),

Gene: Cuke_37 Start: 30414, Stop: 30683, Start Num: 3
Candidate Starts for Cuke_37:
(1, 30342), (Start: 3 @30414 has 24 MA's), (6, 30459), (13, 30621),

Gene: Damien_42 Start: 37764, Stop: 38033, Start Num: 3
Candidate Starts for Damien_42:
(Start: 3 @37764 has 24 MA's), (4, 37773), (9, 37884), (11, 37923), (13, 37971), (14, 37995),

Gene: Dylan_110 Start: 65781, Stop: 65518, Start Num: 2
Candidate Starts for Dylan_110:
(Start: 2 @65781 has 19 MA's), (Start: 3 @65775 has 24 MA's), (7, 65700), (8, 65670), (11, 65616), (13, 65580), (14, 65556),

Gene: Familton_118 Start: 67806, Stop: 67534, Start Num: 2
Candidate Starts for Familton_118:

(Start: 2 @67806 has 19 MA's), (Start: 3 @67800 has 24 MA's), (7, 67725), (8, 67695), (11, 67641), (12, 67638), (13, 67596), (14, 67572),

Gene: Firecracker_116 Start: 67314, Stop: 67042, Start Num: 2
Candidate Starts for Firecracker_116:
(Start: 2 @67314 has 19 MA's), (Start: 3 @67308 has 24 MA's), (7, 67233), (8, 67203), (11, 67149), (12, 67146), (13, 67104), (14, 67080),

Gene: FoulBall_115 Start: 67062, Stop: 66790, Start Num: 2
Candidate Starts for FoulBall_115:
(Start: 2 @67062 has 19 MA's), (Start: 3 @67056 has 24 MA's), (7, 66981), (8, 66951), (11, 66897), (12, 66894), (13, 66852), (14, 66828),

Gene: Fowlmouth_41 Start: 34176, Stop: 34445, Start Num: 3
Candidate Starts for Fowlmouth_41:
(Start: 3 @34176 has 24 MA's), (6, 34221), (13, 34383),

Gene: Idergollasper_120 Start: 68517, Stop: 68245, Start Num: 2
Candidate Starts for Idergollasper_120:
(Start: 2 @68517 has 19 MA's), (Start: 3 @68511 has 24 MA's), (7, 68436), (8, 68406), (11, 68352), (12, 68349), (13, 68307), (14, 68283),

Gene: Imara_115 Start: 66800, Stop: 66528, Start Num: 2
Candidate Starts for Imara_115:
(Start: 2 @66800 has 19 MA's), (Start: 3 @66794 has 24 MA's), (7, 66719), (8, 66689), (11, 66635), (12, 66632), (13, 66590), (14, 66566),

Gene: JangDynasty_114 Start: 66867, Stop: 66595, Start Num: 2
Candidate Starts for JangDynasty_114:
(Start: 2 @66867 has 19 MA's), (Start: 3 @66861 has 24 MA's), (7, 66786), (8, 66756), (11, 66702), (12, 66699), (13, 66657), (14, 66633),

Gene: KingPhillip3_114 Start: 67373, Stop: 67101, Start Num: 2
Candidate Starts for KingPhillip3_114:
(Start: 2 @67373 has 19 MA's), (Start: 3 @67367 has 24 MA's), (7, 67292), (8, 67262), (11, 67208), (12, 67205), (13, 67163), (14, 67139),

Gene: Krili_118 Start: 67650, Stop: 67384, Start Num: 3
Candidate Starts for Krili_118:
(Start: 2 @67656 has 19 MA's), (Start: 3 @67650 has 24 MA's), (7, 67575), (8, 67545), (11, 67491), (12, 67488), (13, 67446), (14, 67422),

Gene: MadKillah_119 Start: 67132, Stop: 66860, Start Num: 2
Candidate Starts for MadKillah_119:
(Start: 2 @67132 has 19 MA's), (Start: 3 @67126 has 24 MA's), (7, 67051), (8, 67021), (11, 66967), (12, 66964), (13, 66922), (14, 66898),

Gene: Megatron06_43 Start: 38293, Stop: 38562, Start Num: 3
Candidate Starts for Megatron06_43:
(Start: 3 @38293 has 24 MA's), (4, 38302), (9, 38413), (11, 38452), (13, 38500), (14, 38524),

Gene: Mori_116 Start: 67676, Stop: 67410, Start Num: 3
Candidate Starts for Mori_116:

(Start: 2 @67682 has 19 MA's), (Start: 3 @67676 has 24 MA's), (7, 67601), (8, 67571), (10, 67535), (11, 67517), (12, 67514), (13, 67472), (14, 67448),

Gene: Murai_116 Start: 67500, Stop: 67228, Start Num: 2
Candidate Starts for Murai_116:
(Start: 2 @67500 has 19 MA's), (Start: 3 @67494 has 24 MA's), (7, 67419), (8, 67389), (11, 67335), (12, 67332), (13, 67290), (14, 67266),

Gene: NiebruSaylor_116 Start: 66796, Stop: 66524, Start Num: 2
Candidate Starts for NiebruSaylor_116:
(Start: 2 @66796 has 19 MA's), (Start: 3 @66790 has 24 MA's), (7, 66715), (8, 66685), (11, 66631), (12, 66628), (13, 66586), (14, 66562),

Gene: Nish23_44 Start: 37756, Stop: 38025, Start Num: 3
Candidate Starts for Nish23_44:
(Start: 3 @37756 has 24 MA's), (4, 37765), (9, 37876), (11, 37915), (13, 37963), (14, 37987),

Gene: Oaker_41 Start: 38011, Stop: 38280, Start Num: 3
Candidate Starts for Oaker_41:
(Start: 3 @38011 has 24 MA's), (4, 38020), (9, 38131), (11, 38170), (13, 38218), (14, 38242),

Gene: Phreeze_41 Start: 37819, Stop: 38088, Start Num: 3
Candidate Starts for Phreeze_41:
(Start: 3 @37819 has 24 MA's), (4, 37828), (6, 37864), (9, 37939), (11, 37978), (13, 38026), (14, 38050),

Gene: Predator_45 Start: 37593, Stop: 37862, Start Num: 3
Candidate Starts for Predator_45:
(Start: 3 @37593 has 24 MA's), (5, 37614), (6, 37638), (9, 37713),

Gene: Puissant_43 Start: 38658, Stop: 38933, Start Num: 3
Candidate Starts for Puissant_43:
(Start: 3 @38658 has 24 MA's), (4, 38667), (9, 38778), (11, 38823), (13, 38871), (14, 38895), (15, 38919),

Gene: Ryadel_121 Start: 68642, Stop: 68376, Start Num: 3
Candidate Starts for Ryadel_121:
(Start: 2 @68648 has 19 MA's), (Start: 3 @68642 has 24 MA's), (7, 68567), (8, 68537), (11, 68483), (12, 68480), (13, 68438), (14, 68414),

Gene: SchoolBus_117 Start: 67682, Stop: 67410, Start Num: 2
Candidate Starts for SchoolBus_117:
(Start: 2 @67682 has 19 MA's), (Start: 3 @67676 has 24 MA's), (7, 67601), (8, 67571), (11, 67517), (12, 67514), (13, 67472), (14, 67448),

Gene: Schuy_116 Start: 66841, Stop: 66569, Start Num: 2
Candidate Starts for Schuy_116:
(Start: 2 @66841 has 19 MA's), (Start: 3 @66835 has 24 MA's), (7, 66760), (8, 66730), (11, 66676), (12, 66673), (13, 66631), (14, 66607),

Gene: Shida_115 Start: 67343, Stop: 67071, Start Num: 2
Candidate Starts for Shida_115:

(Start: 2 @67343 has 19 MA's), (Start: 3 @67337 has 24 MA's), (7, 67262), (8, 67232), (11, 67178), (12, 67175), (13, 67133), (14, 67109),

Gene: Smooch_114 Start: 67380, Stop: 67108, Start Num: 2
Candidate Starts for Smooch_114:
(Start: 2 @67380 has 19 MA's), (Start: 3 @67374 has 24 MA's), (7, 67299), (8, 67269), (11, 67215), (12, 67212), (13, 67170), (14, 67146),

Gene: TelAviv_112 Start: 67409, Stop: 67143, Start Num: 3
Candidate Starts for TelAviv_112:
(Start: 2 @67415 has 19 MA's), (Start: 3 @67409 has 24 MA's), (7, 67334), (8, 67304), (11, 67250), (12, 67247), (13, 67205), (14, 67181),

Gene: Thumb_42 Start: 37751, Stop: 38020, Start Num: 3
Candidate Starts for Thumb_42:
(Start: 3 @37751 has 24 MA's), (4, 37760), (9, 37871), (11, 37910), (13, 37958), (14, 37982),

Gene: Vagabond_115 Start: 66830, Stop: 66558, Start Num: 2
Candidate Starts for Vagabond_115:
(Start: 2 @66830 has 19 MA's), (Start: 3 @66824 has 24 MA's), (7, 66749), (8, 66719), (11, 66665), (12, 66662), (13, 66620), (14, 66596),

Gene: Vorrps_116 Start: 67677, Stop: 67411, Start Num: 3
Candidate Starts for Vorrps_116:
(Start: 2 @67683 has 19 MA's), (Start: 3 @67677 has 24 MA's), (7, 67602), (8, 67572), (10, 67536), (11, 67518), (12, 67515), (13, 67473), (14, 67449),

Gene: Wildflower_111 Start: 65312, Stop: 65046, Start Num: 3
Candidate Starts for Wildflower_111:
(Start: 2 @65318 has 19 MA's), (Start: 3 @65312 has 24 MA's), (7, 65237), (11, 65153), (12, 65150), (13, 65108), (14, 65084),

Gene: Winget_116 Start: 67532, Stop: 67260, Start Num: 2
Candidate Starts for Winget_116:
(Start: 2 @67532 has 19 MA's), (Start: 3 @67526 has 24 MA's), (7, 67451), (8, 67421), (11, 67367), (12, 67364), (13, 67322), (14, 67298),

Gene: Wogge42_111 Start: 66865, Stop: 66593, Start Num: 2
Candidate Starts for Wogge42_111:
(Start: 2 @66865 has 19 MA's), (Start: 3 @66859 has 24 MA's), (7, 66784), (8, 66754), (11, 66700), (12, 66697), (13, 66655), (14, 66631),

Gene: YoyoKar_112 Start: 66890, Stop: 66618, Start Num: 2
Candidate Starts for YoyoKar_112:
(Start: 2 @66890 has 19 MA's), (Start: 3 @66884 has 24 MA's), (7, 66809), (8, 66779), (11, 66725), (12, 66722), (13, 66680), (14, 66656),

Gene: Zakhe101_111 Start: 65614, Stop: 65357, Start Num: 3
Candidate Starts for Zakhe101_111:
(Start: 2 @65620 has 19 MA's), (Start: 3 @65614 has 24 MA's), (7, 65539), (8, 65509), (11, 65455), (13, 65419), (14, 65395),

Gene: Zebo_115 Start: 67172, Stop: 66906, Start Num: 3

Candidate Starts for Zebo_115:
(Start: 2 @67178 has 19 MA's), (Start: 3 @67172 has 24 MA's), (7, 67097), (8, 67067), (11, 67013), (12, 67010), (13, 66968), (14, 66944),