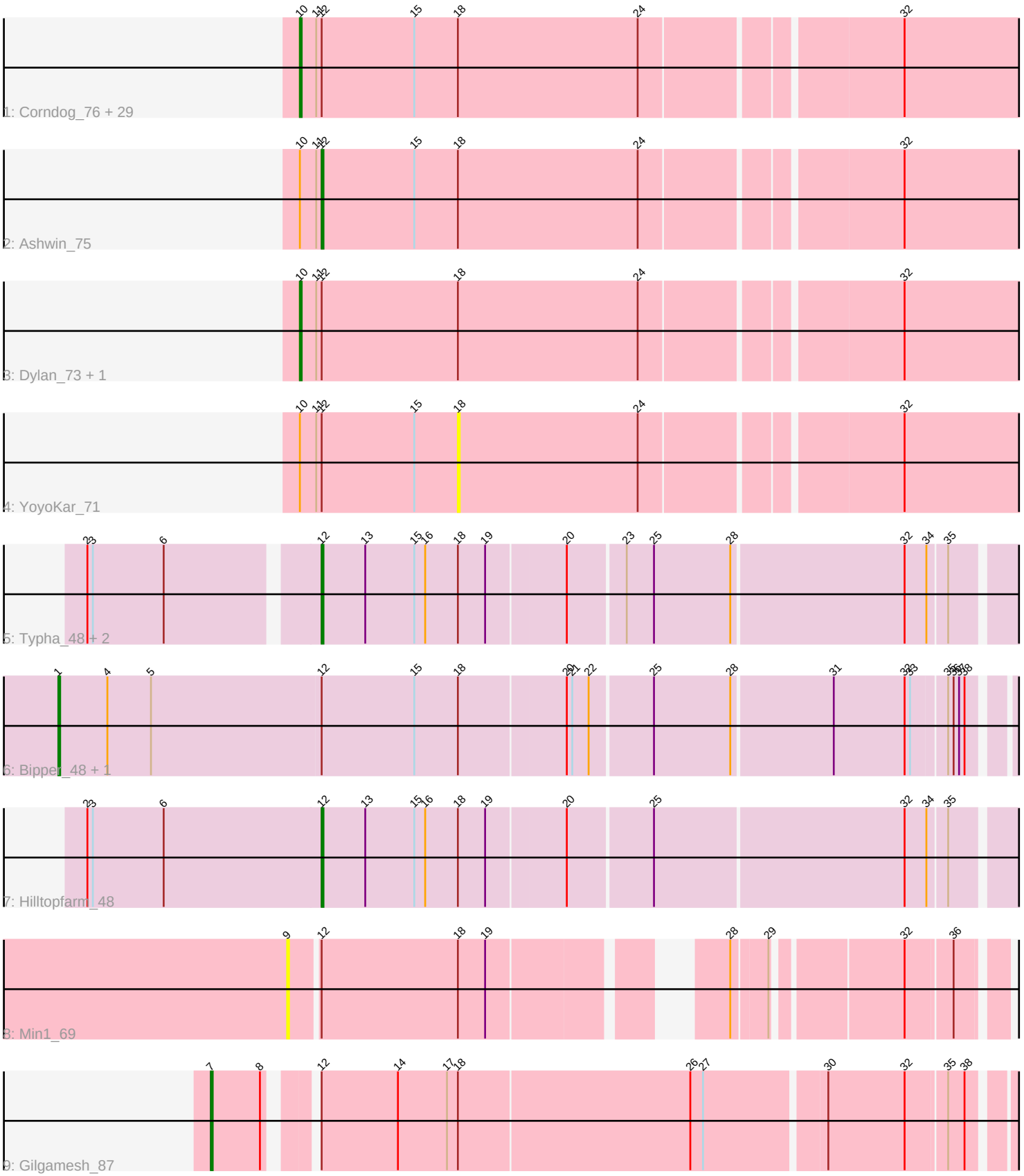
Pham 345889


1: Corndog_76 + 29
2: Ashwin_75
3: Dylan_73 + 1
4: YoyoKar_71
5: Typha_48 + 2
6: Bipper_48 + 1
7: Hilltopfarm_48
8: Min1_69
9: Gilgamesh_87

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 345889 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345889 has 42 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Corndog_76, Wildflower_73, Bora_71, Firecracker_75, KingPhillip3_72, Catdawg_73, Murai_74, Krili_72, Schuy_74, Wogge42_72, YungJamal_78, JangDynasty_73, Blessica_74, MadKillah_74, Vorrps_73, Ryadel_77, Familton_74, Smooch_76, Mori_73, Imara_73, Alkhayr_73, FoulBall_73, Idergollasper_73, NiebruSaylor_72, Winget_74, Shida_73, SchoolBus_73, Vagabond_73, TelAviv_70, Zebo_73
• Track 2 : Ashwin_75
• Track 3 : Dylan_73, Zakhe101_72
• Track 4 : YoyoKar_71
• Track 5 : Typha_48, Faiyaz_48, AuntGwenStacy_48
• Track 6 : Bipper_48, Cracklewink_48
• Track 7 : Hilltopfarm_48
• Track 8 : Min1_69
• Track 9 : Gilgamesh_87

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 31 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alkhayr_73, Blessica_74, Bora_71, Catdawg_73, Corndog_76, Dylan_73, Familton_74, Firecracker_75, FoulBall_73, Idergollasper_73, Imara_73, JangDynasty_73, KingPhillip3_72, Krili_72, MadKillah_74, Mori_73, Murai_74, NiebruSaylor_72, Ryadel_77, SchoolBus_73, Schuy_74, Shida_73, Smooch_76, TelAviv_70, Vagabond_73, Vorrps_73, Wildflower_73, Winget_74, Wogge42_72, YungJamal_78, Zakhe101_72, Zebo_73,

Genes that have the "Most Annotated" start but do not call it:
• Ashwin_75, YoyoKar_71,

Genes that do not have the "Most Annotated" start:
• AuntGwenStacy_48, Bipper_48, Cracklewink_48, Faiyaz_48, Gilgamesh_87, Hilltopfarm_48, Min1_69, Typha_48,

Summary by start number:

Start 1:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 2 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bipper_48 (Y), Cracklewink_48 (Y),

Start 7:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gilgamesh_87 (singleton),

Start 9:
• Found in 1 of 42 (2.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Min1_69 (singleton),

Start 10:
• Found in 34 of 42 (81.0%) of genes in pham
• Manual Annotations of this start: 31 of 39
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Alkhayr_73 (O), Blessica_74 (O), Bora_71 (O), Catdawg_73 (O), Corndog_76 (O), Dylan_73 (O), Familton_74 (O), Firecracker_75 (O), FoulBall_73 (O), Idergollasper_73 (O), Imara_73 (O), JangDynasty_73 (O), KingPhillip3_72 (O), Krili_72 (O), MadKillah_74 (O), Mori_73 (O), Murai_74 (O), NiebruSaylor_72 (O), Ryadel_77 (O), SchoolBus_73 (O), Schuy_74 (O), Shida_73 (O), Smooch_76 (O), TelAviv_70 (O), Vagabond_73 (O), Vorrps_73 (O), Wildflower_73 (O), Winget_74 (O), Wogge42_72 (O), YungJamal_78 (O), Zakhe101_72 (O), Zebo_73 (O),

Start 12:
• Found in 42 of 42 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 39
• Called 11.9% of time when present
• Phage (with cluster) where this start called: Ashwin_75 (O), AuntGwenStacy_48 (Y), Faiyaz_48 (Y), Hilltopfarm_48 (Y), Typha_48 (Y),

Start 18:
• Found in 42 of 42 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 2.4% of time when present
• Phage (with cluster) where this start called: YoyoKar_71 (O),

Summary by clusters:

There are 3 clusters represented in this pham: Y, singleton, O,

Info for manual annotations of cluster O:
•Start number 10 was manually annotated 31 times for cluster O.

•Start number 12 was manually annotated 1 time for cluster O.

Info for manual annotations of cluster Y:
•Start number 1 was manually annotated 2 times for cluster Y.
•Start number 12 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Alkhayr_73 Start: 46566, Stop: 46159, Start Num: 10
Candidate Starts for Alkhayr_73:
(Start: 10 @46566 has 31 MA's), (11, 46557), (Start: 12 @46554 has 5 MA's), (15, 46503), (18, 46479), (24, 46380), (32, 46248),

Gene: Ashwin_75 Start: 47324, Stop: 46929, Start Num: 12
Candidate Starts for Ashwin_75:
(Start: 10 @47336 has 31 MA's), (11, 47327), (Start: 12 @47324 has 5 MA's), (15, 47273), (18, 47249), (24, 47150), (32, 47018),

Gene: AuntGwenStacy_48 Start: 36313, Stop: 36714, Start Num: 12
Candidate Starts for AuntGwenStacy_48:
(2, 36199), (3, 36202), (6, 36241), (Start: 12 @36313 has 5 MA's), (13, 36337), (15, 36364), (16, 36370), (18, 36388), (19, 36403), (20, 36445), (23, 36475), (25, 36490), (28, 36532), (32, 36625), (34, 36637), (35, 36646),

Gene: Bipper_48 Start: 36333, Stop: 36854, Start Num: 1
Candidate Starts for Bipper_48:
(Start: 1 @36333 has 2 MA's), (4, 36360), (5, 36384), (Start: 12 @36477 has 5 MA's), (15, 36528), (18, 36552), (20, 36609), (21, 36612), (22, 36621), (25, 36654), (28, 36696), (31, 36750), (32, 36789), (33, 36792), (35, 36810), (36, 36813), (37, 36816), (38, 36819),

Gene: Blessica_74 Start: 47165, Stop: 46758, Start Num: 10
Candidate Starts for Blessica_74:
(Start: 10 @47165 has 31 MA's), (11, 47156), (Start: 12 @47153 has 5 MA's), (15, 47102), (18, 47078), (24, 46979), (32, 46847),

Gene: Bora_71 Start: 46546, Stop: 46139, Start Num: 10
Candidate Starts for Bora_71:
(Start: 10 @46546 has 31 MA's), (11, 46537), (Start: 12 @46534 has 5 MA's), (15, 46483), (18, 46459), (24, 46360), (32, 46228),

Gene: Catdawg_73 Start: 46901, Stop: 46494, Start Num: 10
Candidate Starts for Catdawg_73:
(Start: 10 @46901 has 31 MA's), (11, 46892), (Start: 12 @46889 has 5 MA's), (15, 46838), (18, 46814), (24, 46715), (32, 46583),

Gene: Corndog_76 Start: 47895, Stop: 47488, Start Num: 10
Candidate Starts for Corndog_76:
(Start: 10 @47895 has 31 MA's), (11, 47886), (Start: 12 @47883 has 5 MA's), (15, 47832), (18, 47808), (24, 47709), (32, 47577),

Gene: Cracklewink_48 Start: 36328, Stop: 36849, Start Num: 1

Candidate Starts for Cracklewink_48:
(Start: 1 @36328 has 2 MA's), (4, 36355), (5, 36379), (Start: 12 @36472 has 5 MA's), (15, 36523), (18, 36547), (20, 36604), (21, 36607), (22, 36616), (25, 36649), (28, 36691), (31, 36745), (32, 36784), (33, 36787), (35, 36805), (36, 36808), (37, 36811), (38, 36814),

Gene: Dylan_73 Start: 46948, Stop: 46541, Start Num: 10
Candidate Starts for Dylan_73:
(Start: 10 @46948 has 31 MA's), (11, 46939), (Start: 12 @46936 has 5 MA's), (18, 46861), (24, 46762), (32, 46630),

Gene: Faiyaz_48 Start: 36298, Stop: 36699, Start Num: 12
Candidate Starts for Faiyaz_48:
(2, 36184), (3, 36187), (6, 36226), (Start: 12 @36298 has 5 MA's), (13, 36322), (15, 36349), (16, 36355), (18, 36373), (19, 36388), (20, 36430), (23, 36460), (25, 36475), (28, 36517), (32, 36610), (34, 36622), (35, 36631),

Gene: Familton_74 Start: 46858, Stop: 46451, Start Num: 10
Candidate Starts for Familton_74:
(Start: 10 @46858 has 31 MA's), (11, 46849), (Start: 12 @46846 has 5 MA's), (15, 46795), (18, 46771), (24, 46672), (32, 46540),

Gene: Firecracker_75 Start: 47248, Stop: 46841, Start Num: 10
Candidate Starts for Firecracker_75:
(Start: 10 @47248 has 31 MA's), (11, 47239), (Start: 12 @47236 has 5 MA's), (15, 47185), (18, 47161), (24, 47062), (32, 46930),

Gene: FoulBall_73 Start: 46852, Stop: 46445, Start Num: 10
Candidate Starts for FoulBall_73:
(Start: 10 @46852 has 31 MA's), (11, 46843), (Start: 12 @46840 has 5 MA's), (15, 46789), (18, 46765), (24, 46666), (32, 46534),

Gene: Gilgamesh_87 Start: 81772, Stop: 82185, Start Num: 7
Candidate Starts for Gilgamesh_87:
(Start: 7 @81772 has 1 MA's), (8, 81799), (Start: 12 @81817 has 5 MA's), (14, 81859), (17, 81886), (18, 81892), (26, 82018), (27, 82024), (30, 82087), (32, 82129), (35, 82150), (38, 82159),

Gene: Hilltopfarm_48 Start: 36442, Stop: 36843, Start Num: 12
Candidate Starts for Hilltopfarm_48:
(2, 36319), (3, 36322), (6, 36361), (Start: 12 @36442 has 5 MA's), (13, 36466), (15, 36493), (16, 36499), (18, 36517), (19, 36532), (20, 36574), (25, 36619), (32, 36754), (34, 36766), (35, 36775),

Gene: Idergollasper_73 Start: 46852, Stop: 46445, Start Num: 10
Candidate Starts for Idergollasper_73:
(Start: 10 @46852 has 31 MA's), (11, 46843), (Start: 12 @46840 has 5 MA's), (15, 46789), (18, 46765), (24, 46666), (32, 46534),

Gene: Imara_73 Start: 46652, Stop: 46245, Start Num: 10
Candidate Starts for Imara_73:
(Start: 10 @46652 has 31 MA's), (11, 46643), (Start: 12 @46640 has 5 MA's), (15, 46589), (18, 46565), (24, 46466), (32, 46334),

Gene: JangDynasty_73 Start: 46938, Stop: 46531, Start Num: 10
Candidate Starts for JangDynasty_73:

(Start: 10 @46938 has 31 MA's), (11, 46929), (Start: 12 @46926 has 5 MA's), (15, 46875), (18, 46851), (24, 46752), (32, 46620),

Gene: KingPhillip3_72 Start: 46867, Stop: 46460, Start Num: 10
Candidate Starts for KingPhillip3_72:
(Start: 10 @46867 has 31 MA's), (11, 46858), (Start: 12 @46855 has 5 MA's), (15, 46804), (18, 46780), (24, 46681), (32, 46549),

Gene: Krili_72 Start: 46362, Stop: 45955, Start Num: 10
Candidate Starts for Krili_72:
(Start: 10 @46362 has 31 MA's), (11, 46353), (Start: 12 @46350 has 5 MA's), (15, 46299), (18, 46275), (24, 46176), (32, 46044),

Gene: MadKillah_74 Start: 46631, Stop: 46224, Start Num: 10
Candidate Starts for MadKillah_74:
(Start: 10 @46631 has 31 MA's), (11, 46622), (Start: 12 @46619 has 5 MA's), (15, 46568), (18, 46544), (24, 46445), (32, 46313),

Gene: Min1_69 Start: 40462, Stop: 40127, Start Num: 9
Candidate Starts for Min1_69:
(9, 40462), (Start: 12 @40447 has 5 MA's), (18, 40372), (19, 40357), (28, 40255), (29, 40237), (32, 40174), (36, 40150),

Gene: Mori_73 Start: 46893, Stop: 46486, Start Num: 10
Candidate Starts for Mori_73:
(Start: 10 @46893 has 31 MA's), (11, 46884), (Start: 12 @46881 has 5 MA's), (15, 46830), (18, 46806), (24, 46707), (32, 46575),

Gene: Murai_74 Start: 47074, Stop: 46667, Start Num: 10
Candidate Starts for Murai_74:
(Start: 10 @47074 has 31 MA's), (11, 47065), (Start: 12 @47062 has 5 MA's), (15, 47011), (18, 46987), (24, 46888), (32, 46756),

Gene: NiebruSaylor_72 Start: 46281, Stop: 45874, Start Num: 10
Candidate Starts for NiebruSaylor_72:
(Start: 10 @46281 has 31 MA's), (11, 46272), (Start: 12 @46269 has 5 MA's), (15, 46218), (18, 46194), (24, 46095), (32, 45963),

Gene: Ryadel_77 Start: 47686, Stop: 47279, Start Num: 10
Candidate Starts for Ryadel_77:
(Start: 10 @47686 has 31 MA's), (11, 47677), (Start: 12 @47674 has 5 MA's), (15, 47623), (18, 47599), (24, 47500), (32, 47368),

Gene: SchoolBus_73 Start: 46834, Stop: 46427, Start Num: 10
Candidate Starts for SchoolBus_73:
(Start: 10 @46834 has 31 MA's), (11, 46825), (Start: 12 @46822 has 5 MA's), (15, 46771), (18, 46747), (24, 46648), (32, 46516),

Gene: Schuy_74 Start: 46637, Stop: 46230, Start Num: 10
Candidate Starts for Schuy_74:
(Start: 10 @46637 has 31 MA's), (11, 46628), (Start: 12 @46625 has 5 MA's), (15, 46574), (18, 46550), (24, 46451), (32, 46319),

Gene: Shida_73 Start: 46544, Stop: 46137, Start Num: 10
Candidate Starts for Shida_73:
(Start: 10 @46544 has 31 MA's), (11, 46535), (Start: 12 @46532 has 5 MA's), (15, 46481), (18, 46457), (24, 46358), (32, 46226),

Gene: Smooch_76 Start: 48590, Stop: 48183, Start Num: 10
Candidate Starts for Smooch_76:
(Start: 10 @48590 has 31 MA's), (11, 48581), (Start: 12 @48578 has 5 MA's), (15, 48527), (18, 48503), (24, 48404), (32, 48272),

Gene: TelAviv_70 Start: 46819, Stop: 46412, Start Num: 10
Candidate Starts for TelAviv_70:
(Start: 10 @46819 has 31 MA's), (11, 46810), (Start: 12 @46807 has 5 MA's), (15, 46756), (18, 46732), (24, 46633), (32, 46501),

Gene: Typha_48 Start: 36313, Stop: 36714, Start Num: 12
Candidate Starts for Typha_48:
(2, 36199), (3, 36202), (6, 36241), (Start: 12 @36313 has 5 MA's), (13, 36337), (15, 36364), (16, 36370), (18, 36388), (19, 36403), (20, 36445), (23, 36475), (25, 36490), (28, 36532), (32, 36625), (34, 36637), (35, 36646),

Gene: Vagabond_73 Start: 46682, Stop: 46275, Start Num: 10
Candidate Starts for Vagabond_73:
(Start: 10 @46682 has 31 MA's), (11, 46673), (Start: 12 @46670 has 5 MA's), (15, 46619), (18, 46595), (24, 46496), (32, 46364),

Gene: Vorrps_73 Start: 46894, Stop: 46487, Start Num: 10
Candidate Starts for Vorrps_73:
(Start: 10 @46894 has 31 MA's), (11, 46885), (Start: 12 @46882 has 5 MA's), (15, 46831), (18, 46807), (24, 46708), (32, 46576),

Gene: Wildflower_73 Start: 46406, Stop: 45999, Start Num: 10
Candidate Starts for Wildflower_73:
(Start: 10 @46406 has 31 MA's), (11, 46397), (Start: 12 @46394 has 5 MA's), (15, 46343), (18, 46319), (24, 46220), (32, 46088),

Gene: Winget_74 Start: 47112, Stop: 46705, Start Num: 10
Candidate Starts for Winget_74:
(Start: 10 @47112 has 31 MA's), (11, 47103), (Start: 12 @47100 has 5 MA's), (15, 47049), (18, 47025), (24, 46926), (32, 46794),

Gene: Wogge42_72 Start: 46553, Stop: 46146, Start Num: 10
Candidate Starts for Wogge42_72:
(Start: 10 @46553 has 31 MA's), (11, 46544), (Start: 12 @46541 has 5 MA's), (15, 46490), (18, 46466), (24, 46367), (32, 46235),

Gene: YoyoKar_71 Start: 46309, Stop: 45989, Start Num: 18
Candidate Starts for YoyoKar_71:
(Start: 10 @46396 has 31 MA's), (11, 46387), (Start: 12 @46384 has 5 MA's), (15, 46333), (18, 46309), (24, 46210), (32, 46078),

Gene: YungJamal_78 Start: 48304, Stop: 47897, Start Num: 10
Candidate Starts for YungJamal_78:

(Start: 10 @48304 has 31 MA's), (11, 48295), (Start: 12 @48292 has 5 MA's), (15, 48241), (18, 48217), (24, 48118), (32, 47986),

Gene: Zakhe101_72 Start: 46952, Stop: 46545, Start Num: 10
Candidate Starts for Zakhe101_72:
(Start: 10 @46952 has 31 MA's), (11, 46943), (Start: 12 @46940 has 5 MA's), (18, 46865), (24, 46766), (32, 46634),

Gene: Zebo_73 Start: 46843, Stop: 46436, Start Num: 10
Candidate Starts for Zebo_73:
(Start: 10 @46843 has 31 MA's), (11, 46834), (Start: 12 @46831 has 5 MA's), (15, 46780), (18, 46756), (24, 46657), (32, 46525),