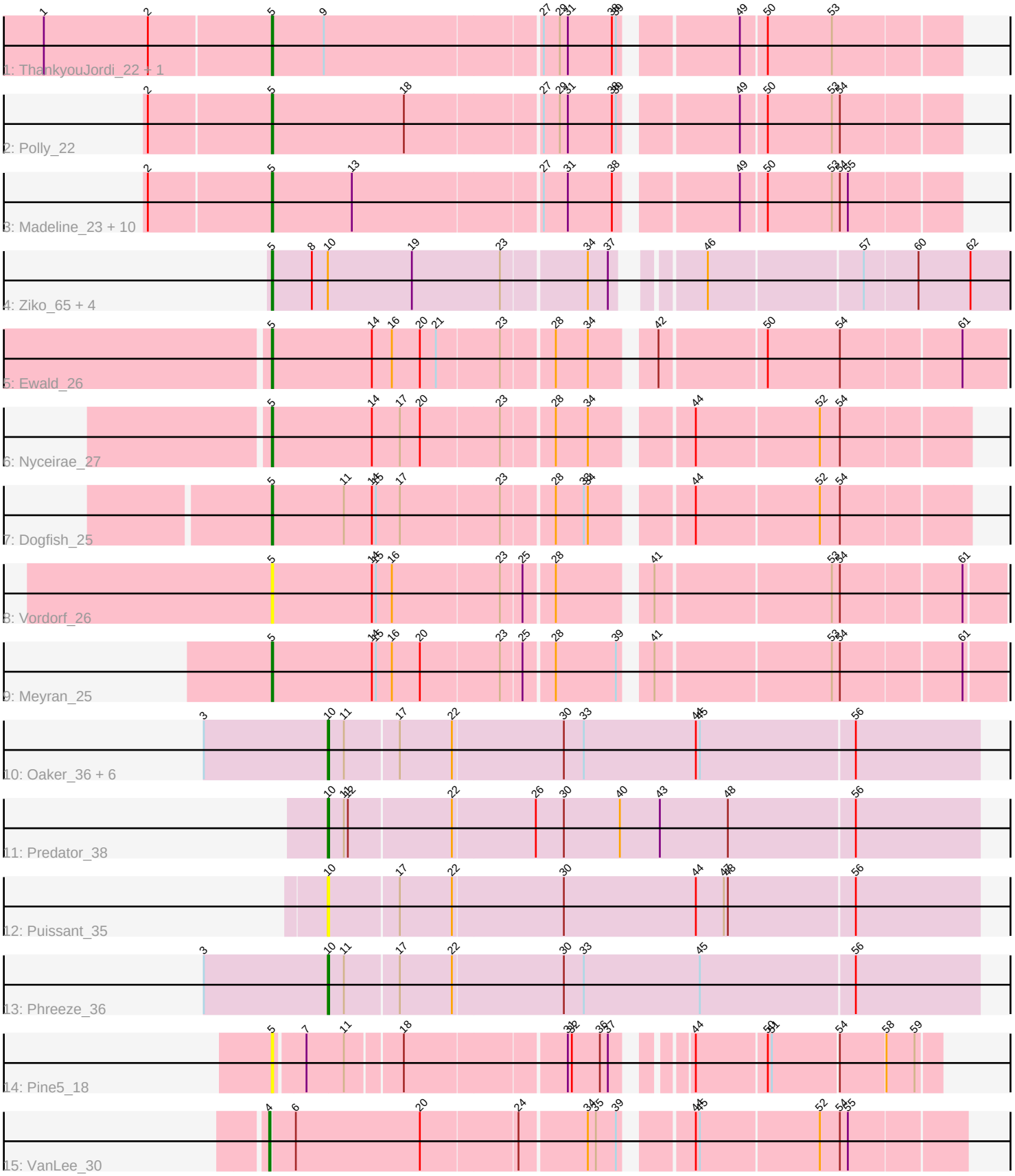
Pham 196685


1: ThankyouJordi_22 + 1
2: Polly_22
3: Madeline_23 + 10
4: Ziko_65 + 4
5: Ewald_26
6: Nyceirae_27
7: Dogfish_25
8: Vordorf_26
9: Meyran_25
10: Oaker_36 + 6
11: Predator_38
12: Puissant_35
13: Phreeze_36
14: Pine5_18
15: VanLee_30

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 196685 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196685 has 36 members, 4 are drafts.

Phages represented in each track:
• Track 1 : ThankyouJordi_22, WelcomeAyanna_22
• Track 2 : Polly_22
• Track 3 : Madeline_23, Nymphadora_23, TimTam_23, Bosnia_23, Zirinka_23, Herod_23, Hugley_23, Ohgeesy_23, Eviarto_23, BatStarr_23, Bialota_23
• Track 4 : Ziko_65, Guey18_68, Fryberger_62, Volt_65, Ronaldo_65
• Track 5 : Ewald_26
• Track 6 : Nyceirae_27
• Track 7 : Dogfish_25
• Track 8 : Vordorf_26
• Track 9 : Meyran_25
• Track 10 : Oaker_36, Cborch11_37, Damien_36, Konstantine_41, Thumb_36, Megatron06_38, Beckerton_36
• Track 11 : Predator_38
• Track 12 : Puissant_35
• Track 13 : Phreeze_36
• Track 14 : Pine5_18
• Track 15 : VanLee_30

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 22 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BatStarr_23, Bialota_23, Bosnia_23, Dogfish_25, Eviarto_23, Ewald_26, Fryberger_62, Guey18_68, Herod_23, Hugley_23, Madeline_23, Meyran_25, Nyceirae_27, Nymphadora_23, Ohgeesy_23, Pine5_18, Polly_22, Ronaldo_65, ThankyouJordi_22, TimTam_23, Volt_65, Vordorf_26, WelcomeAyanna_22, Ziko_65, Zirinka_23,

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

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

• Beckerton_36, Cborch11_37, Damien_36, Konstantine_41, Megatron06_38, Oaker_36, Phreeze_36, Predator_38, Puissant_35, Thumb_36, VanLee_30,

Summary by start number:

Start 4:
• Found in 1 of 36 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: VanLee_30 (singleton),

Start 5:
• Found in 25 of 36 (69.4%) of genes in pham
• Manual Annotations of this start: 22 of 32
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BatStarr_23 (CZ1), Bialota_23 (CZ1), Bosnia_23 (CZ1), Dogfish_25 (DT), Eviarto_23 (CZ1), Ewald_26 (DT), Fryberger_62 (DP), Guey18_68 (DP), Herod_23 (CZ1), Hugley_23 (CZ1), Madeline_23 (CZ1), Meyran_25 (DT), Nyceirae_27 (DT), Nymphadora_23 (CZ1), Ohgeesy_23 (CZ), Pine5_18 (singleton), Polly_22 (CZ1), Ronaldo_65 (DP), ThankyouJordi_22 (CZ1), TimTam_23 (CZ1), Volt_65 (DP), Vordorf_26 (DT), WelcomeAyanna_22 (CZ1), Ziko_65 (DP), Zirinka_23 (CZ1),

Start 10:
• Found in 15 of 36 (41.7%) of genes in pham
• Manual Annotations of this start: 9 of 32
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Beckerton_36 (H1), Cborch11_37 (H1), Damien_36 (H1), Konstantine_41 (H1), Megatron06_38 (H1), Oaker_36 (H1), Phreeze_36 (H1), Predator_38 (H1), Puissant_35 (H1), Thumb_36 (H1),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, H1, CZ1, CZ, DT, DP,

Info for manual annotations of cluster CZ:
•Start number 5 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 5 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster DP:
•Start number 5 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster DT:
•Start number 5 was manually annotated 4 times for cluster DT.

Info for manual annotations of cluster H1:
•Start number 10 was manually annotated 9 times for cluster H1.

Gene Information:

Gene: BatStarr_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for BatStarr_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Beckerton_36 Start: 33410, Stop: 33889, Start Num: 10
Candidate Starts for Beckerton_36:
(3, 33317), (Start: 10 @33410 has 9 MA's), (11, 33422), (17, 33461), (22, 33500), (30, 33581), (33, 33596), (44, 33680), (45, 33683), (56, 33797),

Gene: Bialota_23 Start: 21439, Stop: 21921, Start Num: 5
Candidate Starts for Bialota_23:
(2, 21349), (Start: 5 @21439 has 22 MA's), (13, 21499), (27, 21634), (31, 21652), (38, 21685), (49, 21763), (50, 21781), (53, 21829), (54, 21835), (55, 21841),

Gene: Bosnia_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for Bosnia_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Cborch11_37 Start: 32875, Stop: 33354, Start Num: 10
Candidate Starts for Cborch11_37:
(3, 32782), (Start: 10 @32875 has 9 MA's), (11, 32887), (17, 32926), (22, 32965), (30, 33046), (33, 33061), (44, 33145), (45, 33148), (56, 33262),

Gene: Damien_36 Start: 32876, Stop: 33355, Start Num: 10
Candidate Starts for Damien_36:
(3, 32783), (Start: 10 @32876 has 9 MA's), (11, 32888), (17, 32927), (22, 32966), (30, 33047), (33, 33062), (44, 33146), (45, 33149), (56, 33263),

Gene: Dogfish_25 Start: 21688, Stop: 22176, Start Num: 5
Candidate Starts for Dogfish_25:
(Start: 5 @21688 has 22 MA's), (11, 21742), (14, 21763), (15, 21766), (17, 21784), (23, 21856), (28, 21892), (33, 21913), (34, 21916), (44, 21979), (52, 22069), (54, 22084),

Gene: Eviarto_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for Eviarto_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Ewald_26 Start: 22047, Stop: 22562, Start Num: 5
Candidate Starts for Ewald_26:
(Start: 5 @22047 has 22 MA's), (14, 22122), (16, 22137), (20, 22158), (21, 22170), (23, 22215), (28, 22251), (34, 22275), (42, 22314), (50, 22389), (54, 22443), (61, 22530),

Gene: Fryberger_62 Start: 34972, Stop: 35487, Start Num: 5
Candidate Starts for Fryberger_62:
(Start: 5 @34972 has 22 MA's), (8, 35002), (Start: 10 @35014 has 9 MA's), (19, 35077), (23, 35143), (34, 35203), (37, 35218), (46, 35266), (57, 35377), (60, 35416), (62, 35455),

Gene: Guey18_68 Start: 36492, Stop: 37007, Start Num: 5
Candidate Starts for Guey18_68:

(Start: 5 @36492 has 22 MA's), (8, 36522), (Start: 10 @36534 has 9 MA's), (19, 36597), (23, 36663), (34, 36723), (37, 36738), (46, 36786), (57, 36897), (60, 36936), (62, 36975),

Gene: Herod_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for Herod_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Hugley_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for Hugley_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Konstantine_41 Start: 34077, Stop: 34556, Start Num: 10
Candidate Starts for Konstantine_41:
(3, 33984), (Start: 10 @34077 has 9 MA's), (11, 34089), (17, 34128), (22, 34167), (30, 34248), (33, 34263), (44, 34347), (45, 34350), (56, 34464),

Gene: Madeline_23 Start: 21725, Stop: 22207, Start Num: 5
Candidate Starts for Madeline_23:
(2, 21635), (Start: 5 @21725 has 22 MA's), (13, 21785), (27, 21920), (31, 21938), (38, 21971), (49, 22049), (50, 22067), (53, 22115), (54, 22121), (55, 22127),

Gene: Megatron06_38 Start: 33409, Stop: 33888, Start Num: 10
Candidate Starts for Megatron06_38:
(3, 33316), (Start: 10 @33409 has 9 MA's), (11, 33421), (17, 33460), (22, 33499), (30, 33580), (33, 33595), (44, 33679), (45, 33682), (56, 33796),

Gene: Meyran_25 Start: 22519, Stop: 23031, Start Num: 5
Candidate Starts for Meyran_25:
(Start: 5 @22519 has 22 MA's), (14, 22594), (15, 22597), (16, 22609), (20, 22630), (23, 22687), (25, 22702), (28, 22723), (39, 22768), (41, 22783), (53, 22909), (54, 22915), (61, 23002),

Gene: Nyceirae_27 Start: 22280, Stop: 22768, Start Num: 5
Candidate Starts for Nyceirae_27:
(Start: 5 @22280 has 22 MA's), (14, 22355), (17, 22376), (20, 22391), (23, 22448), (28, 22484), (34, 22508), (44, 22571), (52, 22661), (54, 22676),

Gene: Nymphadora_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for Nymphadora_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: Oaker_36 Start: 33133, Stop: 33612, Start Num: 10
Candidate Starts for Oaker_36:
(3, 33040), (Start: 10 @33133 has 9 MA's), (11, 33145), (17, 33184), (22, 33223), (30, 33304), (33, 33319), (44, 33403), (45, 33406), (56, 33520),

Gene: Ohgeesy_23 Start: 21050, Stop: 21532, Start Num: 5
Candidate Starts for Ohgeesy_23:
(2, 20960), (Start: 5 @21050 has 22 MA's), (13, 21110), (27, 21245), (31, 21263), (38, 21296), (49, 21374), (50, 21392), (53, 21440), (54, 21446), (55, 21452),

Gene: Phreeze_36 Start: 32876, Stop: 33355, Start Num: 10
Candidate Starts for Phreeze_36:
(3, 32783), (Start: 10 @32876 has 9 MA's), (11, 32888), (17, 32927), (22, 32966), (30, 33047), (33, 33062), (45, 33149), (56, 33263),

Gene: Pine5_18 Start: 14642, Stop: 15085, Start Num: 5
Candidate Starts for Pine5_18:
(Start: 5 @14642 has 22 MA's), (7, 14663), (11, 14690), (18, 14729), (31, 14843), (32, 14846), (36, 14867), (37, 14873), (44, 14912), (50, 14963), (51, 14966), (54, 15014), (58, 15047), (59, 15068),

Gene: Polly_22 Start: 20867, Stop: 21349, Start Num: 5
Candidate Starts for Polly_22:
(2, 20777), (Start: 5 @20867 has 22 MA's), (18, 20966), (27, 21062), (29, 21074), (31, 21080), (38, 21113), (39, 21116), (49, 21191), (50, 21209), (53, 21257), (54, 21263),

Gene: Predator_38 Start: 32067, Stop: 32546, Start Num: 10
Candidate Starts for Predator_38:
(Start: 10 @32067 has 9 MA's), (11, 32079), (12, 32082), (22, 32157), (26, 32217), (30, 32238), (40, 32280), (43, 32310), (48, 32361), (56, 32454),

Gene: Puissant_35 Start: 33364, Stop: 33843, Start Num: 10
Candidate Starts for Puissant_35:
(Start: 10 @33364 has 9 MA's), (17, 33415), (22, 33454), (30, 33535), (44, 33634), (47, 33655), (48, 33658), (56, 33751),

Gene: Ronaldo_65 Start: 35871, Stop: 36386, Start Num: 5
Candidate Starts for Ronaldo_65:
(Start: 5 @35871 has 22 MA's), (8, 35901), (Start: 10 @35913 has 9 MA's), (19, 35976), (23, 36042), (34, 36102), (37, 36117), (46, 36165), (57, 36276), (60, 36315), (62, 36354),

Gene: ThankyouJordi_22 Start: 21402, Stop: 21884, Start Num: 5
Candidate Starts for ThankyouJordi_22:
(1, 21234), (2, 21312), (Start: 5 @21402 has 22 MA's), (9, 21441), (27, 21597), (29, 21609), (31, 21615), (38, 21648), (39, 21651), (49, 21726), (50, 21744), (53, 21792),

Gene: Thumb_36 Start: 32873, Stop: 33352, Start Num: 10
Candidate Starts for Thumb_36:
(3, 32780), (Start: 10 @32873 has 9 MA's), (11, 32885), (17, 32924), (22, 32963), (30, 33044), (33, 33059), (44, 33143), (45, 33146), (56, 33260),

Gene: TimTam_23 Start: 21427, Stop: 21909, Start Num: 5
Candidate Starts for TimTam_23:
(2, 21337), (Start: 5 @21427 has 22 MA's), (13, 21487), (27, 21622), (31, 21640), (38, 21673), (49, 21751), (50, 21769), (53, 21817), (54, 21823), (55, 21829),

Gene: VanLee_30 Start: 25581, Stop: 26066, Start Num: 4
Candidate Starts for VanLee_30:
(Start: 4 @25581 has 1 MA's), (6, 25599), (20, 25692), (24, 25761), (34, 25809), (35, 25815), (39, 25830), (44, 25872), (45, 25875), (52, 25962), (54, 25977), (55, 25983),

Gene: Volt_65 Start: 36035, Stop: 36550, Start Num: 5
Candidate Starts for Volt_65:

(Start: 5 @36035 has 22 MA's), (8, 36065), (Start: 10 @36077 has 9 MA's), (19, 36140), (23, 36206), (34, 36266), (37, 36281), (46, 36329), (57, 36440), (60, 36479), (62, 36518),

Gene: Vordorf_26 Start: 21985, Stop: 22497, Start Num: 5
Candidate Starts for Vordorf_26:
(Start: 5 @21985 has 22 MA's), (14, 22060), (15, 22063), (16, 22075), (23, 22153), (25, 22168), (28, 22189), (41, 22249), (53, 22375), (54, 22381), (61, 22468),

Gene: WelcomeAyanna_22 Start: 21402, Stop: 21884, Start Num: 5
Candidate Starts for WelcomeAyanna_22:
(1, 21234), (2, 21312), (Start: 5 @21402 has 22 MA's), (9, 21441), (27, 21597), (29, 21609), (31, 21615), (38, 21648), (39, 21651), (49, 21726), (50, 21744), (53, 21792),

Gene: Ziko_65 Start: 35857, Stop: 36372, Start Num: 5
Candidate Starts for Ziko_65:
(Start: 5 @35857 has 22 MA's), (8, 35887), (Start: 10 @35899 has 9 MA's), (19, 35962), (23, 36028), (34, 36088), (37, 36103), (46, 36151), (57, 36262), (60, 36301), (62, 36340),

Gene: Zirinka_23 Start: 21439, Stop: 21921, Start Num: 5
Candidate Starts for Zirinka_23:
(2, 21349), (Start: 5 @21439 has 22 MA's), (13, 21499), (27, 21634), (31, 21652), (38, 21685), (49, 21763), (50, 21781), (53, 21829), (54, 21835), (55, 21841),