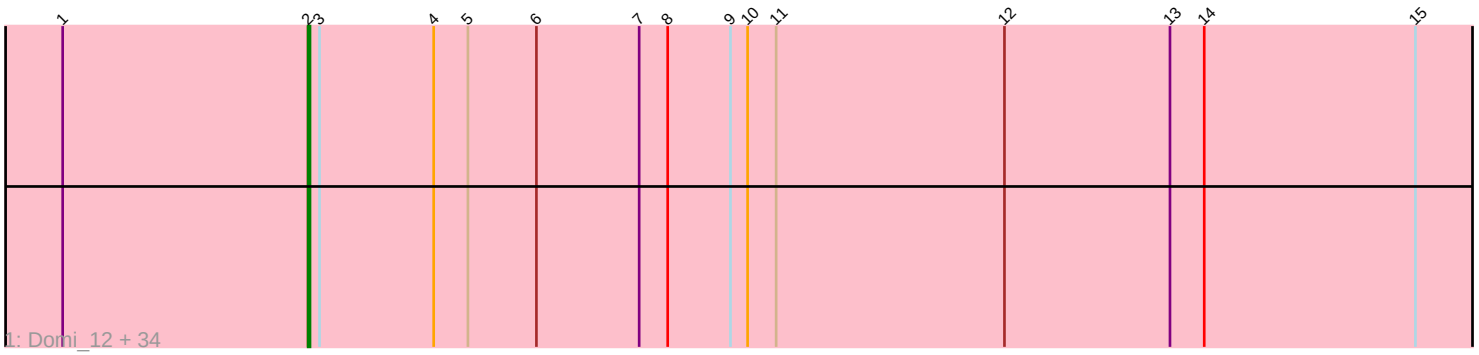
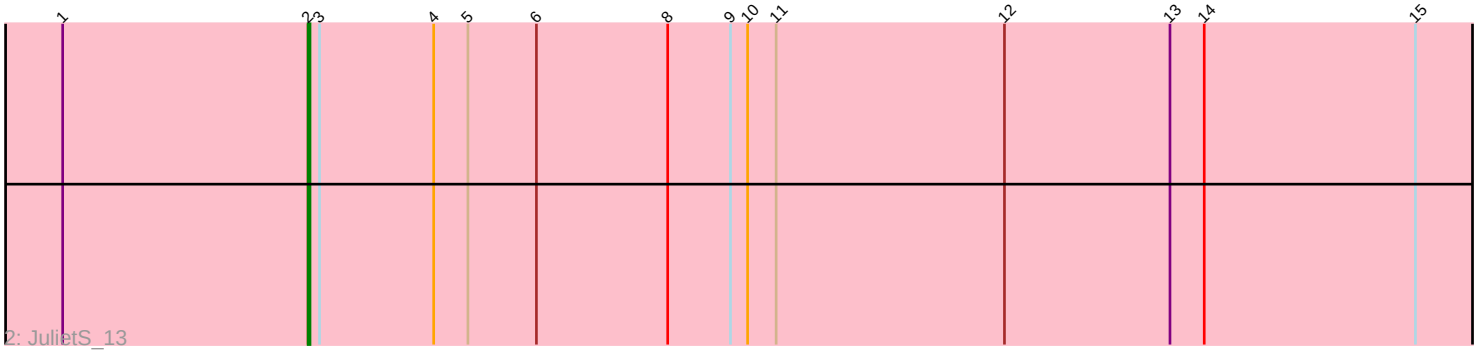
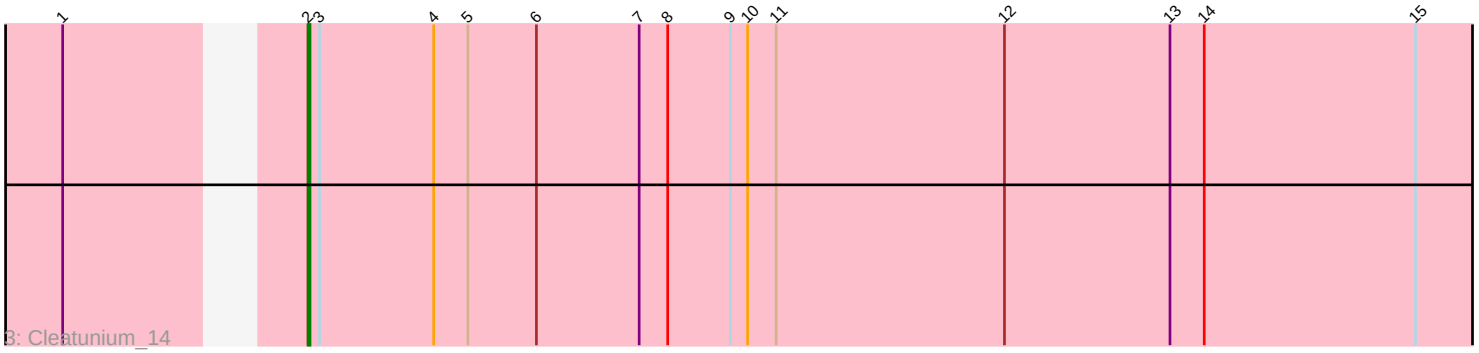
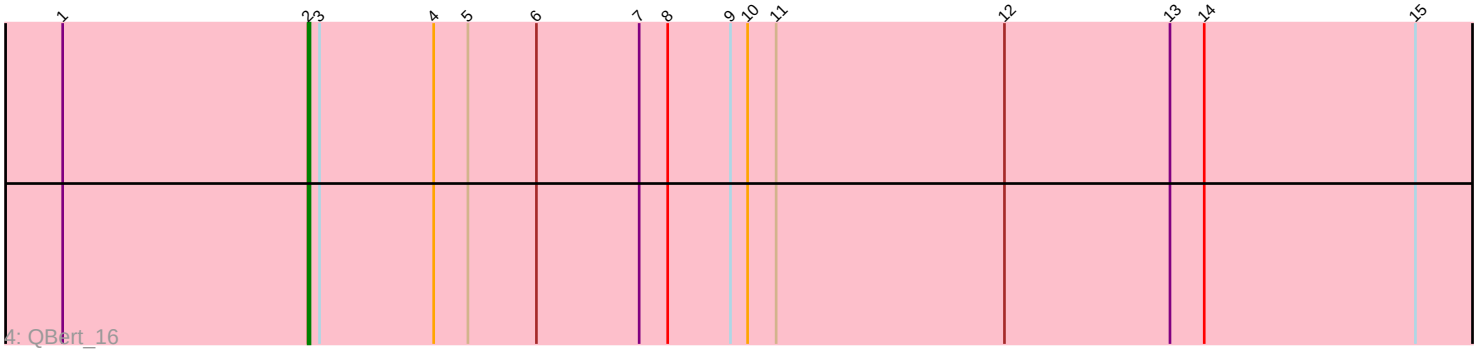
Pham 345933


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15
1: Domi_12 + 34


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2: JulietS_13


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3: Cleatunium_14


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4: QBert_16

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 345933 Report

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

Pham number 345933 has 38 members, 10 are drafts.

Phages represented in each track:
• Track 1 : Domi_12, StephanieG_18, LookingGlass_20, Sauce_19, Specks_21, Astraea_18, Tainan_23, Rocha_16, Pupusa_23, Puhon_23, Jezreel_16, Spud_20, Drazdys_18, Maguvora_24, NuevoMundo_21, RoMag_12, Tyke_19, Bigswole_22, FrayBell_23, InterFolia_23, Mikro_16, Bxz1_19, Pier_19, NoodleTree_16, PharkleMinkus_23, Primadonna_13, Shaqnato_14, GoldenSnow_23, IkeLoa_13, LolaVinca_20, Kamryn_16, SiwenD96_18, Pio_20, DTDevon_18, LordLeafolot_23
• Track 2 : JulietS_13
• Track 3 : Cleatunium_14
• Track 4 : QBert_16

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

The start number called the most often in the published annotations is 2, it was called in 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astraea_18, Bigswole_22, Bxz1_19, Cleatunium_14, DTDevon_18, Domi_12, Drazdys_18, FrayBell_23, GoldenSnow_23, IkeLoa_13, InterFolia_23, Jezreel_16, JulietS_13, Kamryn_16, LolaVinca_20, LookingGlass_20, LordLeafolot_23, Maguvora_24, Mikro_16, NoodleTree_16, NuevoMundo_21, PharkleMinkus_23, Pier_19, Pio_20, Primadonna_13, Puhon_23, Pupusa_23, QBert_16, RoMag_12, Rocha_16, Sauce_19, Shaqnato_14, SiwenD96_18, Specks_21, Spud_20, StephanieG_18, Tainan_23, Tyke_19,

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

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

Summary by start number:

Start 2:
• Found in 38 of 38 (100.0%) of genes in pham

• Manual Annotations of this start: 28 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astraea_18 (C1), Bigswole_22 (C1), Bxz1_19 (C1), Cleatunium_14 (C1), DTDevon_18 (C1), Domi_12 (C1), Drazdys_18 (C1), FrayBell_23 (C1), GoldenSnow_23 (C1), IkeLoa_13 (C1), InterFolia_23 (C1), Jezreel_16 (C1), JulietS_13 (C1), Kamryn_16 (C1), LolaVinca_20 (C1), LookingGlass_20 (C1), LordLeafolot_23 (C1), Maguvora_24 (C1), Mikro_16 (C1), NoodleTree_16 (C1), NuevoMundo_21 (C1), PharkleMinkus_23 (C1), Pier_19 (C1), Pio_20 (C1), Primadonna_13 (C1), Puhon_23 (C1), Pupusa_23 (C1), QBert_16 (C1), RoMag_12 (C1), Rocha_16 (C1), Sauce_19 (C1), Shaqnato_14 (C1), SiwenD96_18 (C1), Specks_21 (C1), Spud_20 (C1), StephanieG_18 (C1), Tainan_23 (C1), Tyke_19 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:
•Start number 2 was manually annotated 28 times for cluster C1.

Gene Information:

Gene: Astraea_18 Start: 5464, Stop: 6078, Start Num: 2
Candidate Starts for Astraea_18:
(1, 5335), (Start: 2 @5464 has 28 MA's), (3, 5470), (4, 5530), (5, 5548), (6, 5584), (7, 5638), (8, 5653), (9, 5686), (10, 5695), (11, 5710), (12, 5830), (13, 5917), (14, 5935), (15, 6046),

Gene: Bigswole_22 Start: 7180, Stop: 7794, Start Num: 2
Candidate Starts for Bigswole_22:
(1, 7051), (Start: 2 @7180 has 28 MA's), (3, 7186), (4, 7246), (5, 7264), (6, 7300), (7, 7354), (8, 7369), (9, 7402), (10, 7411), (11, 7426), (12, 7546), (13, 7633), (14, 7651), (15, 7762),

Gene: Bxz1_19 Start: 6290, Stop: 6904, Start Num: 2
Candidate Starts for Bxz1_19:
(1, 6161), (Start: 2 @6290 has 28 MA's), (3, 6296), (4, 6356), (5, 6374), (6, 6410), (7, 6464), (8, 6479), (9, 6512), (10, 6521), (11, 6536), (12, 6656), (13, 6743), (14, 6761), (15, 6872),

Gene: Cleatunium_14 Start: 5019, Stop: 5633, Start Num: 2
Candidate Starts for Cleatunium_14:
(1, 4920), (Start: 2 @5019 has 28 MA's), (3, 5025), (4, 5085), (5, 5103), (6, 5139), (7, 5193), (8, 5208), (9, 5241), (10, 5250), (11, 5265), (12, 5385), (13, 5472), (14, 5490), (15, 5601),

Gene: DTDevon_18 Start: 5911, Stop: 6525, Start Num: 2
Candidate Starts for DTDevon_18:
(1, 5782), (Start: 2 @5911 has 28 MA's), (3, 5917), (4, 5977), (5, 5995), (6, 6031), (7, 6085), (8, 6100), (9, 6133), (10, 6142), (11, 6157), (12, 6277), (13, 6364), (14, 6382), (15, 6493),

Gene: Domi_12 Start: 4862, Stop: 5476, Start Num: 2
Candidate Starts for Domi_12:
(1, 4733), (Start: 2 @4862 has 28 MA's), (3, 4868), (4, 4928), (5, 4946), (6, 4982), (7, 5036), (8, 5051), (9, 5084), (10, 5093), (11, 5108), (12, 5228), (13, 5315), (14, 5333), (15, 5444),

Gene: Drazdys_18 Start: 5612, Stop: 6226, Start Num: 2
Candidate Starts for Drazdys_18:
(1, 5483), (Start: 2 @5612 has 28 MA's), (3, 5618), (4, 5678), (5, 5696), (6, 5732), (7, 5786), (8, 5801), (9, 5834), (10, 5843), (11, 5858), (12, 5978), (13, 6065), (14, 6083), (15, 6194),

Gene: FrayBell_23 Start: 7437, Stop: 8051, Start Num: 2
Candidate Starts for FrayBell_23:
(1, 7308), (Start: 2 @7437 has 28 MA's), (3, 7443), (4, 7503), (5, 7521), (6, 7557), (7, 7611), (8, 7626), (9, 7659), (10, 7668), (11, 7683), (12, 7803), (13, 7890), (14, 7908), (15, 8019),

Gene: GoldenSnow_23 Start: 7436, Stop: 8050, Start Num: 2
Candidate Starts for GoldenSnow_23:
(1, 7307), (Start: 2 @7436 has 28 MA's), (3, 7442), (4, 7502), (5, 7520), (6, 7556), (7, 7610), (8, 7625), (9, 7658), (10, 7667), (11, 7682), (12, 7802), (13, 7889), (14, 7907), (15, 8018),

Gene: IkeLoa_13 Start: 4873, Stop: 5487, Start Num: 2
Candidate Starts for IkeLoa_13:
(1, 4744), (Start: 2 @4873 has 28 MA's), (3, 4879), (4, 4939), (5, 4957), (6, 4993), (7, 5047), (8, 5062), (9, 5095), (10, 5104), (11, 5119), (12, 5239), (13, 5326), (14, 5344), (15, 5455),

Gene: InterFolia_23 Start: 7434, Stop: 8048, Start Num: 2
Candidate Starts for InterFolia_23:
(1, 7305), (Start: 2 @7434 has 28 MA's), (3, 7440), (4, 7500), (5, 7518), (6, 7554), (7, 7608), (8, 7623), (9, 7656), (10, 7665), (11, 7680), (12, 7800), (13, 7887), (14, 7905), (15, 8016),

Gene: Jezreel_16 Start: 5074, Stop: 5688, Start Num: 2
Candidate Starts for Jezreel_16:
(1, 4945), (Start: 2 @5074 has 28 MA's), (3, 5080), (4, 5140), (5, 5158), (6, 5194), (7, 5248), (8, 5263), (9, 5296), (10, 5305), (11, 5320), (12, 5440), (13, 5527), (14, 5545), (15, 5656),

Gene: JulietS_13 Start: 3972, Stop: 4586, Start Num: 2
Candidate Starts for JulietS_13:
(1, 3843), (Start: 2 @3972 has 28 MA's), (3, 3978), (4, 4038), (5, 4056), (6, 4092), (8, 4161), (9, 4194), (10, 4203), (11, 4218), (12, 4338), (13, 4425), (14, 4443), (15, 4554),

Gene: Kamryn_16 Start: 5077, Stop: 5691, Start Num: 2
Candidate Starts for Kamryn_16:
(1, 4948), (Start: 2 @5077 has 28 MA's), (3, 5083), (4, 5143), (5, 5161), (6, 5197), (7, 5251), (8, 5266), (9, 5299), (10, 5308), (11, 5323), (12, 5443), (13, 5530), (14, 5548), (15, 5659),

Gene: LolaVinca_20 Start: 6540, Stop: 7154, Start Num: 2
Candidate Starts for LolaVinca_20:
(1, 6411), (Start: 2 @6540 has 28 MA's), (3, 6546), (4, 6606), (5, 6624), (6, 6660), (7, 6714), (8, 6729), (9, 6762), (10, 6771), (11, 6786), (12, 6906), (13, 6993), (14, 7011), (15, 7122),

Gene: LookingGlass_20 Start: 6376, Stop: 6990, Start Num: 2
Candidate Starts for LookingGlass_20:
(1, 6247), (Start: 2 @6376 has 28 MA's), (3, 6382), (4, 6442), (5, 6460), (6, 6496), (7, 6550), (8, 6565), (9, 6598), (10, 6607), (11, 6622), (12, 6742), (13, 6829), (14, 6847), (15, 6958),

Gene: LordLeafolot_23 Start: 7436, Stop: 8050, Start Num: 2
Candidate Starts for LordLeafolot_23:

(1, 7307), (Start: 2 @7436 has 28 MA's), (3, 7442), (4, 7502), (5, 7520), (6, 7556), (7, 7610), (8, 7625), (9, 7658), (10, 7667), (11, 7682), (12, 7802), (13, 7889), (14, 7907), (15, 8018),

Gene: Maguvora_24 Start: 7438, Stop: 8052, Start Num: 2
Candidate Starts for Maguvora_24:
(1, 7309), (Start: 2 @7438 has 28 MA's), (3, 7444), (4, 7504), (5, 7522), (6, 7558), (7, 7612), (8, 7627), (9, 7660), (10, 7669), (11, 7684), (12, 7804), (13, 7891), (14, 7909), (15, 8020),

Gene: Mikro_16 Start: 6073, Stop: 6687, Start Num: 2
Candidate Starts for Mikro_16:
(1, 5944), (Start: 2 @6073 has 28 MA's), (3, 6079), (4, 6139), (5, 6157), (6, 6193), (7, 6247), (8, 6262), (9, 6295), (10, 6304), (11, 6319), (12, 6439), (13, 6526), (14, 6544), (15, 6655),

Gene: NoodleTree_16 Start: 5074, Stop: 5688, Start Num: 2
Candidate Starts for NoodleTree_16:
(1, 4945), (Start: 2 @5074 has 28 MA's), (3, 5080), (4, 5140), (5, 5158), (6, 5194), (7, 5248), (8, 5263), (9, 5296), (10, 5305), (11, 5320), (12, 5440), (13, 5527), (14, 5545), (15, 5656),

Gene: NuevoMundo_21 Start: 7182, Stop: 7796, Start Num: 2
Candidate Starts for NuevoMundo_21:
(1, 7053), (Start: 2 @7182 has 28 MA's), (3, 7188), (4, 7248), (5, 7266), (6, 7302), (7, 7356), (8, 7371), (9, 7404), (10, 7413), (11, 7428), (12, 7548), (13, 7635), (14, 7653), (15, 7764),

Gene: PharkleMinkus_23 Start: 7437, Stop: 8051, Start Num: 2
Candidate Starts for PharkleMinkus_23:
(1, 7308), (Start: 2 @7437 has 28 MA's), (3, 7443), (4, 7503), (5, 7521), (6, 7557), (7, 7611), (8, 7626), (9, 7659), (10, 7668), (11, 7683), (12, 7803), (13, 7890), (14, 7908), (15, 8019),

Gene: Pier_19 Start: 5745, Stop: 6359, Start Num: 2
Candidate Starts for Pier_19:
(1, 5616), (Start: 2 @5745 has 28 MA's), (3, 5751), (4, 5811), (5, 5829), (6, 5865), (7, 5919), (8, 5934), (9, 5967), (10, 5976), (11, 5991), (12, 6111), (13, 6198), (14, 6216), (15, 6327),

Gene: Pio_20 Start: 6679, Stop: 7293, Start Num: 2
Candidate Starts for Pio_20:
(1, 6550), (Start: 2 @6679 has 28 MA's), (3, 6685), (4, 6745), (5, 6763), (6, 6799), (7, 6853), (8, 6868), (9, 6901), (10, 6910), (11, 6925), (12, 7045), (13, 7132), (14, 7150), (15, 7261),

Gene: Primadonna_13 Start: 5218, Stop: 5832, Start Num: 2
Candidate Starts for Primadonna_13:
(1, 5089), (Start: 2 @5218 has 28 MA's), (3, 5224), (4, 5284), (5, 5302), (6, 5338), (7, 5392), (8, 5407), (9, 5440), (10, 5449), (11, 5464), (12, 5584), (13, 5671), (14, 5689), (15, 5800),

Gene: Puhon_23 Start: 7436, Stop: 8050, Start Num: 2
Candidate Starts for Puhon_23:
(1, 7307), (Start: 2 @7436 has 28 MA's), (3, 7442), (4, 7502), (5, 7520), (6, 7556), (7, 7610), (8, 7625), (9, 7658), (10, 7667), (11, 7682), (12, 7802), (13, 7889), (14, 7907), (15, 8018),

Gene: Pupusa_23 Start: 7436, Stop: 8050, Start Num: 2
Candidate Starts for Pupusa_23:
(1, 7307), (Start: 2 @7436 has 28 MA's), (3, 7442), (4, 7502), (5, 7520), (6, 7556), (7, 7610), (8, 7625), (9, 7658), (10, 7667), (11, 7682), (12, 7802), (13, 7889), (14, 7907), (15, 8018),

Gene: QBert_16 Start: 6262, Stop: 6876, Start Num: 2
Candidate Starts for QBert_16:
(1, 6133), (Start: 2 @6262 has 28 MA's), (3, 6268), (4, 6328), (5, 6346), (6, 6382), (7, 6436), (8, 6451), (9, 6484), (10, 6493), (11, 6508), (12, 6628), (13, 6715), (14, 6733), (15, 6844),

Gene: RoMag_12 Start: 4824, Stop: 5438, Start Num: 2
Candidate Starts for RoMag_12:
(1, 4695), (Start: 2 @4824 has 28 MA's), (3, 4830), (4, 4890), (5, 4908), (6, 4944), (7, 4998), (8, 5013), (9, 5046), (10, 5055), (11, 5070), (12, 5190), (13, 5277), (14, 5295), (15, 5406),

Gene: Rocha_16 Start: 5073, Stop: 5687, Start Num: 2
Candidate Starts for Rocha_16:
(1, 4944), (Start: 2 @5073 has 28 MA's), (3, 5079), (4, 5139), (5, 5157), (6, 5193), (7, 5247), (8, 5262), (9, 5295), (10, 5304), (11, 5319), (12, 5439), (13, 5526), (14, 5544), (15, 5655),

Gene: Sauce_19 Start: 6225, Stop: 6839, Start Num: 2
Candidate Starts for Sauce_19:
(1, 6096), (Start: 2 @6225 has 28 MA's), (3, 6231), (4, 6291), (5, 6309), (6, 6345), (7, 6399), (8, 6414), (9, 6447), (10, 6456), (11, 6471), (12, 6591), (13, 6678), (14, 6696), (15, 6807),

Gene: Shaqnato_14 Start: 4678, Stop: 5292, Start Num: 2
Candidate Starts for Shaqnato_14:
(1, 4549), (Start: 2 @4678 has 28 MA's), (3, 4684), (4, 4744), (5, 4762), (6, 4798), (7, 4852), (8, 4867), (9, 4900), (10, 4909), (11, 4924), (12, 5044), (13, 5131), (14, 5149), (15, 5260),

Gene: SiwenD96_18 Start: 6178, Stop: 6792, Start Num: 2
Candidate Starts for SiwenD96_18:
(1, 6049), (Start: 2 @6178 has 28 MA's), (3, 6184), (4, 6244), (5, 6262), (6, 6298), (7, 6352), (8, 6367), (9, 6400), (10, 6409), (11, 6424), (12, 6544), (13, 6631), (14, 6649), (15, 6760),

Gene: Specks_21 Start: 6617, Stop: 7231, Start Num: 2
Candidate Starts for Specks_21:
(1, 6488), (Start: 2 @6617 has 28 MA's), (3, 6623), (4, 6683), (5, 6701), (6, 6737), (7, 6791), (8, 6806), (9, 6839), (10, 6848), (11, 6863), (12, 6983), (13, 7070), (14, 7088), (15, 7199),

Gene: Spud_20 Start: 6679, Stop: 7293, Start Num: 2
Candidate Starts for Spud_20:
(1, 6550), (Start: 2 @6679 has 28 MA's), (3, 6685), (4, 6745), (5, 6763), (6, 6799), (7, 6853), (8, 6868), (9, 6901), (10, 6910), (11, 6925), (12, 7045), (13, 7132), (14, 7150), (15, 7261),

Gene: StephanieG_18 Start: 5770, Stop: 6384, Start Num: 2
Candidate Starts for StephanieG_18:
(1, 5641), (Start: 2 @5770 has 28 MA's), (3, 5776), (4, 5836), (5, 5854), (6, 5890), (7, 5944), (8, 5959), (9, 5992), (10, 6001), (11, 6016), (12, 6136), (13, 6223), (14, 6241), (15, 6352),

Gene: Tainan_23 Start: 7436, Stop: 8050, Start Num: 2
Candidate Starts for Tainan_23:
(1, 7307), (Start: 2 @7436 has 28 MA's), (3, 7442), (4, 7502), (5, 7520), (6, 7556), (7, 7610), (8, 7625), (9, 7658), (10, 7667), (11, 7682), (12, 7802), (13, 7889), (14, 7907), (15, 8018),

Gene: Tyke_19 Start: 6155, Stop: 6769, Start Num: 2
Candidate Starts for Tyke_19:

(1, 6026), (Start: 2 @6155 has 28 MA's), (3, 6161), (4, 6221), (5, 6239), (6, 6275), (7, 6329), (8, 6344), (9, 6377), (10, 6386), (11, 6401), (12, 6521), (13, 6608), (14, 6626), (15, 6737),