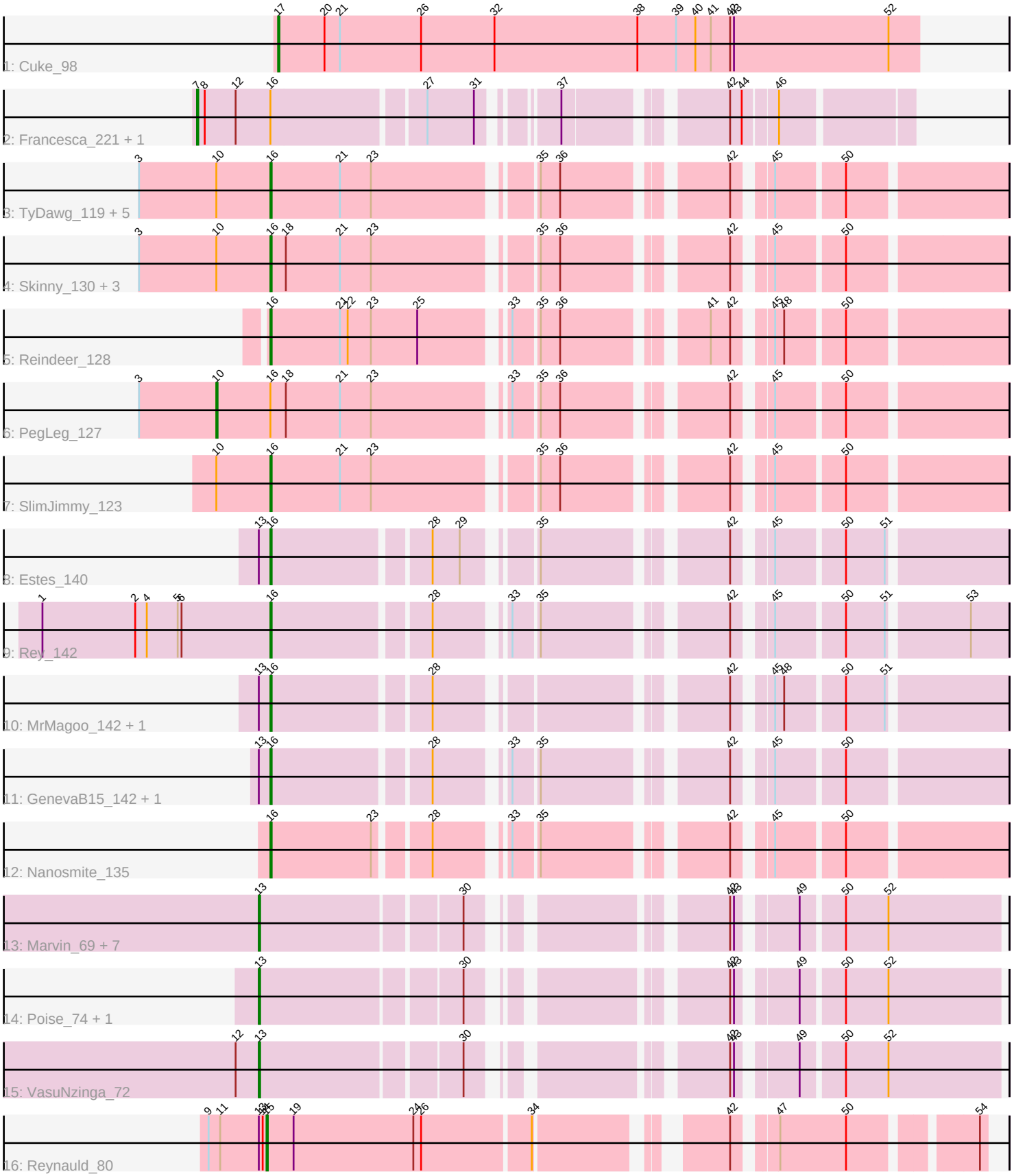
Pham 196690


1: Cuke_98
2: Francesca_221 + 1
3: TyDawg_119 + 5
4: Skinny_130 + 3
5: Reindeer_128
6: PegLeg_127
7: SlimJimmy_123
8: Estes_140
9: Rey_142
10: MrMagoo_142 + 1
11: GenevaB15_142 + 1
12: Nanosmite_135
13: Marvin_69 + 7
14: Poise_74 + 1
15: VasuNzinga_72
16: Reynauld_80

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 196690 Report

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

Pham number 196690 has 35 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Cuke_98
• Track 2 : Francesca_221, Dorin_220
• Track 3 : TyDawg_119, Auspice_124, Bongo_123, Bricole_126, IPhane7_122, LilhomieP_124
• Track 4 : Skinny_130, Dulcita_125, Glaske16_127, Diminimus_125
• Track 5 : Reindeer_128
• Track 6 : PegLeg_127
• Track 7 : SlimJimmy_123
• Track 8 : Estes_140
• Track 9 : Rey_142
• Track 10 : MrMagoo_142, GardenSalsa_140
• Track 11 : GenevaB15_142, Aziz_139
• Track 12 : Nanosmite_135
• Track 13 : Marvin_69, MosMoris_70, Tesla_70, RedRaider77_73, LittleLaf_73, Lilbit_73, Raela_74, Gattaca_71
• Track 14 : Poise_74, Blackbeetle_74
• Track 15 : VasuNzinga_72
• Track 16 : Reynauld_80

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

The start number called the most often in the published annotations is 16, it was called in 19 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_124, Aziz_139, Bongo_123, Bricole_126, Diminimus_125, Dulcita_125, Estes_140, GardenSalsa_140, GenevaB15_142, Glaske16_127, IPhane7_122, LilhomieP_124, MrMagoo_142, Nanosmite_135, Reindeer_128, Rey_142, Skinny_130, SlimJimmy_123, TyDawg_119,

Genes that have the "Most Annotated" start but do not call it:
• Dorin_220, Francesca_221, PegLeg_127,

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

• Blackbeetle_74, Cuke_98, Gattaca_71, Lilbit_73, LittleLaf_73, Marvin_69, MosMoris_70, Poise_74, Raela_74, RedRaider77_73, Reynauld_80, Tesla_70, VasuNzinga_72,

Summary by start number:

Start 7:
• Found in 2 of 35 (5.7%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dorin_220 (CG), Francesca_221 (CG),

Start 10:
• Found in 12 of 35 (34.3%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 8.3% of time when present
• Phage (with cluster) where this start called: PegLeg_127 (M1),

Start 13:
• Found in 17 of 35 (48.6%) of genes in pham
• Manual Annotations of this start: 10 of 34
• Called 64.7% of time when present
• Phage (with cluster) where this start called: Blackbeetle_74 (S), Gattaca_71 (S), Lilbit_73 (S), LittleLaf_73 (S), Marvin_69 (S), MosMoris_70 (S), Poise_74 (S), Raela_74 (S), RedRaider77_73 (S), Tesla_70 (S), VasuNzinga_72 (S),

Start 15:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reynauld_80 (singleton),

Start 16:
• Found in 22 of 35 (62.9%) of genes in pham
• Manual Annotations of this start: 19 of 34
• Called 86.4% of time when present
• Phage (with cluster) where this start called: Auspice_124 (M1), Aziz_139 (M2), Bongo_123 (M1), Bricole_126 (M1), Diminimus_125 (M1), Dulcita_125 (M1), Estes_140 (M2), GardenSalsa_140 (M2), GenevaB15_142 (M2), Glaske16_127 (M1), IPhane7_122 (M1), LilhomieP_124 (M1), MrMagoo_142 (M2), Nanosmite_135 (M3), Reindeer_128 (M1), Rey_142 (M2), Skinny_130 (M1), SlimJimmy_123 (M1), TyDawg_119 (M1),

Start 17:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_98 (AC),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, CG, AC, S, M1, M3, M2,

Info for manual annotations of cluster AC:
•Start number 17 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster CG:
•Start number 7 was manually annotated 2 times for cluster CG.

Info for manual annotations of cluster M1:
•Start number 10 was manually annotated 1 time for cluster M1.
•Start number 16 was manually annotated 12 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 16 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 16 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:
•Start number 13 was manually annotated 10 times for cluster S.

Gene Information:

Gene: Auspice_124 Start: 65416, Stop: 65913, Start Num: 16
Candidate Starts for Auspice_124:
(3, 65314), (Start: 10 @65374 has 1 MA's), (Start: 16 @65416 has 19 MA's), (21, 65470), (23, 65494), (35, 65605), (36, 65620), (42, 65728), (45, 65749), (50, 65797),

Gene: Aziz_139 Start: 66655, Stop: 67140, Start Num: 16
Candidate Starts for Aziz_139:
(Start: 13 @66646 has 10 MA's), (Start: 16 @66655 has 19 MA's), (28, 66769), (33, 66814), (35, 66832), (42, 66955), (45, 66976), (50, 67024),

Gene: Blackbeetle_74 Start: 40595, Stop: 41086, Start Num: 13
Candidate Starts for Blackbeetle_74:
(Start: 13 @40595 has 10 MA's), (30, 40742), (42, 40898), (43, 40901), (49, 40937), (50, 40967), (52, 41000),

Gene: Bongo_123 Start: 65032, Stop: 65529, Start Num: 16
Candidate Starts for Bongo_123:
(3, 64930), (Start: 10 @64990 has 1 MA's), (Start: 16 @65032 has 19 MA's), (21, 65086), (23, 65110), (35, 65221), (36, 65236), (42, 65344), (45, 65365), (50, 65413),

Gene: Bricole_126 Start: 65180, Stop: 65677, Start Num: 16
Candidate Starts for Bricole_126:
(3, 65078), (Start: 10 @65138 has 1 MA's), (Start: 16 @65180 has 19 MA's), (21, 65234), (23, 65258), (35, 65369), (36, 65384), (42, 65492), (45, 65513), (50, 65561),

Gene: Cuke_98 Start: 56091, Stop: 56588, Start Num: 17
Candidate Starts for Cuke_98:
(Start: 17 @56091 has 1 MA's), (20, 56127), (21, 56139), (26, 56202), (32, 56259), (38, 56370), (39, 56400), (40, 56415), (41, 56427), (42, 56442), (43, 56445), (52, 56565),

Gene: Diminimus_125 Start: 65027, Stop: 65524, Start Num: 16
Candidate Starts for Diminimus_125:
(3, 64925), (Start: 10 @64985 has 1 MA's), (Start: 16 @65027 has 19 MA's), (18, 65039), (21, 65081), (23, 65105), (35, 65216), (36, 65231), (42, 65339), (45, 65360), (50, 65408),

Gene: Dorin_220 Start: 115745, Stop: 116227, Start Num: 7
Candidate Starts for Dorin_220:
(Start: 7 @115745 has 2 MA's), (8, 115751), (12, 115775), (Start: 16 @115802 has 19 MA's), (27, 115913), (31, 115949), (37, 115994), (42, 116099), (44, 116108), (46, 116132),

Gene: Dulcita_125 Start: 65028, Stop: 65525, Start Num: 16
Candidate Starts for Dulcita_125:
(3, 64926), (Start: 10 @64986 has 1 MA's), (Start: 16 @65028 has 19 MA's), (18, 65040), (21, 65082), (23, 65106), (35, 65217), (36, 65232), (42, 65340), (45, 65361), (50, 65409),

Gene: Estes_140 Start: 66866, Stop: 67351, Start Num: 16
Candidate Starts for Estes_140:
(Start: 13 @66857 has 10 MA's), (Start: 16 @66866 has 19 MA's), (28, 66980), (29, 67001), (35, 67043), (42, 67166), (45, 67187), (50, 67235), (51, 67265),

Gene: Francesca_221 Start: 116394, Stop: 116876, Start Num: 7
Candidate Starts for Francesca_221:
(Start: 7 @116394 has 2 MA's), (8, 116400), (12, 116424), (Start: 16 @116451 has 19 MA's), (27, 116562), (31, 116598), (37, 116643), (42, 116748), (44, 116757), (46, 116781),

Gene: GardenSalsa_140 Start: 66997, Stop: 67482, Start Num: 16
Candidate Starts for GardenSalsa_140:
(Start: 13 @66988 has 10 MA's), (Start: 16 @66997 has 19 MA's), (28, 67111), (42, 67297), (45, 67318), (48, 67324), (50, 67366), (51, 67396),

Gene: Gattaca_71 Start: 40699, Stop: 41190, Start Num: 13
Candidate Starts for Gattaca_71:
(Start: 13 @40699 has 10 MA's), (30, 40846), (42, 41002), (43, 41005), (49, 41041), (50, 41071), (52, 41104),

Gene: GenevaB15_142 Start: 66655, Stop: 67140, Start Num: 16
Candidate Starts for GenevaB15_142:
(Start: 13 @66646 has 10 MA's), (Start: 16 @66655 has 19 MA's), (28, 66769), (33, 66814), (35, 66832), (42, 66955), (45, 66976), (50, 67024),

Gene: Glaske16_127 Start: 66146, Stop: 66643, Start Num: 16
Candidate Starts for Glaske16_127:
(3, 66044), (Start: 10 @66104 has 1 MA's), (Start: 16 @66146 has 19 MA's), (18, 66158), (21, 66200), (23, 66224), (35, 66335), (36, 66350), (42, 66458), (45, 66479), (50, 66527),

Gene: IPhane7_122 Start: 65032, Stop: 65529, Start Num: 16
Candidate Starts for IPhane7_122:
(3, 64930), (Start: 10 @64990 has 1 MA's), (Start: 16 @65032 has 19 MA's), (21, 65086), (23, 65110), (35, 65221), (36, 65236), (42, 65344), (45, 65365), (50, 65413),

Gene: Lilbit_73 Start: 41279, Stop: 41770, Start Num: 13
Candidate Starts for Lilbit_73:

(Start: 13 @41279 has 10 MA's), (30, 41426), (42, 41582), (43, 41585), (49, 41621), (50, 41651), (52, 41684),

Gene: LilhomieP_124 Start: 66310, Stop: 66807, Start Num: 16
Candidate Starts for LilhomieP_124:
(3, 66208), (Start: 10 @66268 has 1 MA's), (Start: 16 @66310 has 19 MA's), (21, 66364), (23, 66388), (35, 66499), (36, 66514), (42, 66622), (45, 66643), (50, 66691),

Gene: LittleLaf_73 Start: 41008, Stop: 41499, Start Num: 13
Candidate Starts for LittleLaf_73:
(Start: 13 @41008 has 10 MA's), (30, 41155), (42, 41311), (43, 41314), (49, 41350), (50, 41380), (52, 41413),

Gene: Marvin_69 Start: 40817, Stop: 41308, Start Num: 13
Candidate Starts for Marvin_69:
(Start: 13 @40817 has 10 MA's), (30, 40964), (42, 41120), (43, 41123), (49, 41159), (50, 41189), (52, 41222),

Gene: MosMoris_70 Start: 40699, Stop: 41190, Start Num: 13
Candidate Starts for MosMoris_70:
(Start: 13 @40699 has 10 MA's), (30, 40846), (42, 41002), (43, 41005), (49, 41041), (50, 41071), (52, 41104),

Gene: MrMagoo_142 Start: 66998, Stop: 67483, Start Num: 16
Candidate Starts for MrMagoo_142:
(Start: 13 @66989 has 10 MA's), (Start: 16 @66998 has 19 MA's), (28, 67112), (42, 67298), (45, 67319), (48, 67325), (50, 67367), (51, 67397),

Gene: Nanosmite_135 Start: 66876, Stop: 67361, Start Num: 16
Candidate Starts for Nanosmite_135:
(Start: 16 @66876 has 19 MA's), (23, 66954), (28, 66990), (33, 67035), (35, 67053), (42, 67176), (45, 67197), (50, 67245),

Gene: PegLeg_127 Start: 66152, Stop: 66691, Start Num: 10
Candidate Starts for PegLeg_127:
(3, 66092), (Start: 10 @66152 has 1 MA's), (Start: 16 @66194 has 19 MA's), (18, 66206), (21, 66248), (23, 66272), (33, 66365), (35, 66383), (36, 66398), (42, 66506), (45, 66527), (50, 66575),

Gene: Poise_74 Start: 40595, Stop: 41086, Start Num: 13
Candidate Starts for Poise_74:
(Start: 13 @40595 has 10 MA's), (30, 40742), (42, 40898), (43, 40901), (49, 40937), (50, 40967), (52, 41000),

Gene: Raela_74 Start: 41152, Stop: 41643, Start Num: 13
Candidate Starts for Raela_74:
(Start: 13 @41152 has 10 MA's), (30, 41299), (42, 41455), (43, 41458), (49, 41494), (50, 41524), (52, 41557),

Gene: RedRaider77_73 Start: 40540, Stop: 41031, Start Num: 13
Candidate Starts for RedRaider77_73:
(Start: 13 @40540 has 10 MA's), (30, 40687), (42, 40843), (43, 40846), (49, 40882), (50, 40912), (52, 40945),

Gene: Reindeer_128 Start: 67626, Stop: 68123, Start Num: 16
Candidate Starts for Reindeer_128:
(Start: 16 @67626 has 19 MA's), (21, 67680), (22, 67686), (23, 67704), (25, 67740), (33, 67797), (35, 67815), (36, 67830), (41, 67923), (42, 67938), (45, 67959), (48, 67965), (50, 68007),

Gene: Rey_142 Start: 66571, Stop: 67056, Start Num: 16
Candidate Starts for Rey_142:
(1, 66394), (2, 66466), (4, 66475), (5, 66499), (6, 66502), (Start: 16 @66571 has 19 MA's), (28, 66685), (33, 66730), (35, 66748), (42, 66871), (45, 66892), (50, 66940), (51, 66970), (53, 67027),

Gene: Reynauld_80 Start: 64338, Stop: 63856, Start Num: 15
Candidate Starts for Reynauld_80:
(9, 64383), (11, 64374), (Start: 13 @64344 has 10 MA's), (14, 64341), (Start: 15 @64338 has 1 MA's), (19, 64317), (24, 64224), (26, 64218), (34, 64137), (42, 64020), (47, 63996), (50, 63945), (54, 63861),

Gene: Skinny_130 Start: 67311, Stop: 67808, Start Num: 16
Candidate Starts for Skinny_130:
(3, 67209), (Start: 10 @67269 has 1 MA's), (Start: 16 @67311 has 19 MA's), (18, 67323), (21, 67365), (23, 67389), (35, 67500), (36, 67515), (42, 67623), (45, 67644), (50, 67692),

Gene: SlimJimmy_123 Start: 66020, Stop: 66517, Start Num: 16
Candidate Starts for SlimJimmy_123:
(Start: 10 @65978 has 1 MA's), (Start: 16 @66020 has 19 MA's), (21, 66074), (23, 66098), (35, 66209), (36, 66224), (42, 66332), (45, 66353), (50, 66401),

Gene: Tesla_70 Start: 40389, Stop: 40880, Start Num: 13
Candidate Starts for Tesla_70:
(Start: 13 @40389 has 10 MA's), (30, 40536), (42, 40692), (43, 40695), (49, 40731), (50, 40761), (52, 40794),

Gene: TyDawg_119 Start: 65035, Stop: 65532, Start Num: 16
Candidate Starts for TyDawg_119:
(3, 64933), (Start: 10 @64993 has 1 MA's), (Start: 16 @65035 has 19 MA's), (21, 65089), (23, 65113), (35, 65224), (36, 65239), (42, 65347), (45, 65368), (50, 65416),

Gene: VasuNzinga_72 Start: 40491, Stop: 40982, Start Num: 13
Candidate Starts for VasuNzinga_72:
(12, 40473), (Start: 13 @40491 has 10 MA's), (30, 40638), (42, 40794), (43, 40797), (49, 40833), (50, 40863), (52, 40896),