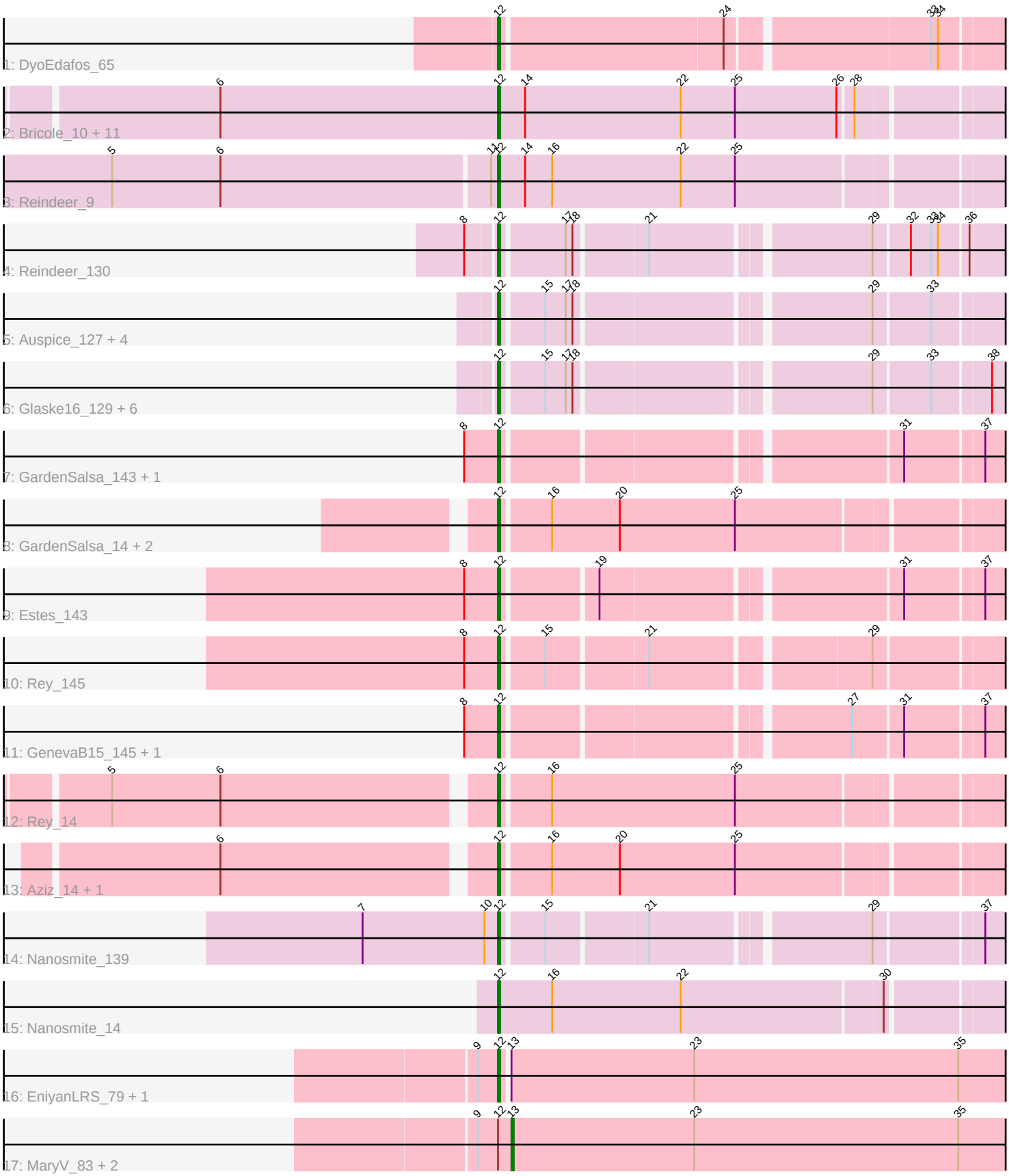
Zoomed Pham 196628



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 196628 Report

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

Pham number 196628 has 46 members, 0 are drafts.

Phages represented in each track:
• Track 1 : DyoEdafos_65
• Track 2 : Bricole_10, Glaske16_11, Dulcita_11, Diminimus_11, IPhane7_10, Bongo_10, Skinny_11, SlimJimmy_10, LilhomieP_10, PegLeg_10, TyDawg_10, Auspice_10
• Track 3 : Reindeer_9
• Track 4 : Reindeer_130
• Track 5 : Auspice_127, IPhane7_125, Bongo_126, TyDawg_122, Bricole_129
• Track 6 : Glaske16_129, Dulcita_127, Skinny_133, PegLeg_130, Diminimus_127, LilhomieP_127, SlimJimmy_126
• Track 7 : GardenSalsa_143, MrMagoo_145
• Track 8 : GardenSalsa_14, MrMagoo_14, Estes_15
• Track 9 : Estes_143
• Track 10 : Rey_145
• Track 11 : GenevaB15_145, Aziz_142
• Track 12 : Rey_14
• Track 13 : Aziz_14, GenevaB15_14
• Track 14 : Nanosmite_139
• Track 15 : Nanosmite_14
• Track 16 : EniyanLRS_79, Azrael100_82
• Track 17 : MaryV_83, Cosmo_83, Wildcat_83

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

The start number called the most often in the published annotations is 12, it was called in 43 of the 46 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_10, Auspice_127, Aziz_14, Aziz_142, Azrael100_82, Bongo_10, Bongo_126, Bricole_10, Bricole_129, Diminimus_11, Diminimus_127, Dulcita_11, Dulcita_127, DyoEdafos_65, EniyanLRS_79, Estes_143, Estes_15, GardenSalsa_14, GardenSalsa_143, GenevaB15_14, GenevaB15_145, Glaske16_11, Glaske16_129, IPhane7_10, IPhane7_125, LilhomieP_10, LilhomieP_127, MrMagoo_14, MrMagoo_145, Nanosmite_139, Nanosmite_14, PegLeg_10, PegLeg_130, Reindeer_130, Reindeer_9, Rey_14, Rey_145, Skinny_11, Skinny_133,

SlimJimmy_10, SlimJimmy_126, TyDawg_10, TyDawg_122,

Genes that have the "Most Annotated" start but do not call it:
• Cosmo_83, MaryV_83, Wildcat_83,

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

Summary by start number:

Start 12:
• Found in 46 of 46 (100.0%) of genes in pham
• Manual Annotations of this start: 43 of 46
• Called 93.5% of time when present
• Phage (with cluster) where this start called: Auspice_10 (M1), Auspice_127 (M1), Aziz_14 (M2), Aziz_142 (M2), Azrael100_82 (V), Bongo_10 (M1), Bongo_126 (M1), Bricole_10 (M1), Bricole_129 (M1), Diminimus_11 (M1), Diminimus_127 (M1), Dulcita_11 (M1), Dulcita_127 (M1), DyoEdafos_65 (L4), EniyanLRS_79 (V), Estes_143 (M2), Estes_15 (M2), GardenSalsa_14 (M2), GardenSalsa_143 (M2), GenevaB15_14 (M2), GenevaB15_145 (M2), Glaske16_11 (M1), Glaske16_129 (M1), IPhane7_10 (M1), IPhane7_125 (M1), LilhomieP_10 (M1), LilhomieP_127 (M1), MrMagoo_14 (M2), MrMagoo_145 (M2), Nanosmite_139 (M3), Nanosmite_14 (M3), PegLeg_10 (M1), PegLeg_130 (M1), Reindeer_130 (M1), Reindeer_9 (M1), Rey_14 (M2), Rey_145 (M2), Skinny_11 (M1), Skinny_133 (M1), SlimJimmy_10 (M1), SlimJimmy_126 (M1), TyDawg_10 (M1), TyDawg_122 (M1),

Start 13:
• Found in 5 of 46 (10.9%) of genes in pham
• Manual Annotations of this start: 3 of 46
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Cosmo_83 (V), MaryV_83 (V), Wildcat_83 (V),

Summary by clusters:

There are 5 clusters represented in this pham: L4, V, M1, M3, M2,

Info for manual annotations of cluster L4:
•Start number 12 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 12 was manually annotated 26 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 12 was manually annotated 12 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 12 was manually annotated 2 times for cluster M3.

Info for manual annotations of cluster V:
•Start number 12 was manually annotated 2 times for cluster V.
•Start number 13 was manually annotated 3 times for cluster V.

Gene Information:

Gene: Auspice_127 Start: 66745, Stop: 66978, Start Num: 12
Candidate Starts for Auspice_127:
(Start: 12 @66745 has 43 MA's), (15, 66763), (17, 66772), (18, 66775), (29, 66895), (33, 66919),

Gene: Auspice_10 Start: 3645, Stop: 3415, Start Num: 12
Candidate Starts for Auspice_10:
(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 12 @3645 has 43 MA's), (14, 3633), (22, 3564), (25, 3540), (26, 3495), (28, 3489),

Gene: Aziz_14 Start: 4266, Stop: 4039, Start Num: 12
Candidate Starts for Aziz_14:
(6, 4380), (Start: 12 @4266 has 43 MA's), (16, 4245), (20, 4215), (25, 4164),

Gene: Aziz_142 Start: 67993, Stop: 68220, Start Num: 12
Candidate Starts for Aziz_142:
(8, 67978), (Start: 12 @67993 has 43 MA's), (27, 68134), (31, 68155), (37, 68188), (40, 68215),

Gene: Azrael100_82 Start: 51913, Stop: 52149, Start Num: 12
Candidate Starts for Azrael100_82:
(9, 51904), (Start: 12 @51913 has 43 MA's), (Start: 13 @51916 has 3 MA's), (23, 51997), (35, 52114),

Gene: Bongo_10 Start: 3645, Stop: 3415, Start Num: 12
Candidate Starts for Bongo_10:
(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 12 @3645 has 43 MA's), (14, 3633), (22, 3564), (25, 3540), (26, 3495), (28, 3489),

Gene: Bongo_126 Start: 66361, Stop: 66594, Start Num: 12
Candidate Starts for Bongo_126:
(Start: 12 @66361 has 43 MA's), (15, 66379), (17, 66388), (18, 66391), (29, 66511), (33, 66535),

Gene: Bricole_10 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for Bricole_10:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Bricole_129 Start: 66509, Stop: 66742, Start Num: 12
Candidate Starts for Bricole_129:
(Start: 12 @66509 has 43 MA's), (15, 66527), (17, 66536), (18, 66539), (29, 66659), (33, 66683),

Gene: Cosmo_83 Start: 51917, Stop: 52150, Start Num: 13
Candidate Starts for Cosmo_83:
(9, 51905), (Start: 12 @51914 has 43 MA's), (Start: 13 @51917 has 3 MA's), (23, 51998), (35, 52115),

Gene: Diminimus_11 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for Diminimus_11:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Diminimus_127 Start: 66177, Stop: 66410, Start Num: 12

Candidate Starts for Diminimus_127:
(Start: 12 @66177 has 43 MA's), (15, 66195), (17, 66204), (18, 66207), (29, 66327), (33, 66351), (38, 66375),

Gene: Dulcita_11 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for Dulcita_11:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Dulcita_127 Start: 66178, Stop: 66411, Start Num: 12
Candidate Starts for Dulcita_127:
(Start: 12 @66178 has 43 MA's), (15, 66196), (17, 66205), (18, 66208), (29, 66328), (33, 66352), (38, 66376),

Gene: DyoEdafos_65 Start: 44596, Stop: 44826, Start Num: 12
Candidate Starts for DyoEdafos_65:
(Start: 12 @44596 has 43 MA's), (24, 44692), (33, 44776), (34, 44779),

Gene: EniyanLRS_79 Start: 51653, Stop: 51889, Start Num: 12
Candidate Starts for EniyanLRS_79:
(9, 51644), (Start: 12 @51653 has 43 MA's), (Start: 13 @51656 has 3 MA's), (23, 51737), (35, 51854),

Gene: Estes_143 Start: 68165, Stop: 68392, Start Num: 12
Candidate Starts for Estes_143:
(8, 68150), (Start: 12 @68165 has 43 MA's), (19, 68204), (31, 68327), (37, 68360), (40, 68387),

Gene: Estes_15 Start: 4411, Stop: 4184, Start Num: 12
Candidate Starts for Estes_15:
(Start: 12 @4411 has 43 MA's), (16, 4390), (20, 4360), (25, 4309),

Gene: GardenSalsa_143 Start: 68335, Stop: 68562, Start Num: 12
Candidate Starts for GardenSalsa_143:
(8, 68320), (Start: 12 @68335 has 43 MA's), (31, 68497), (37, 68530), (40, 68557),

Gene: GardenSalsa_14 Start: 4245, Stop: 4018, Start Num: 12
Candidate Starts for GardenSalsa_14:
(Start: 12 @4245 has 43 MA's), (16, 4224), (20, 4194), (25, 4143),

Gene: GenevaB15_145 Start: 67993, Stop: 68220, Start Num: 12
Candidate Starts for GenevaB15_145:
(8, 67978), (Start: 12 @67993 has 43 MA's), (27, 68134), (31, 68155), (37, 68188), (40, 68215),

Gene: GenevaB15_14 Start: 4266, Stop: 4039, Start Num: 12
Candidate Starts for GenevaB15_14:
(6, 4380), (Start: 12 @4266 has 43 MA's), (16, 4245), (20, 4215), (25, 4164),

Gene: Glaske16_11 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for Glaske16_11:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Glaske16_129 Start: 67296, Stop: 67529, Start Num: 12
Candidate Starts for Glaske16_129:

(Start: 12 @67296 has 43 MA's), (15, 67314), (17, 67323), (18, 67326), (29, 67446), (33, 67470), (38, 67494),

Gene: IPhane7_10 Start: 3645, Stop: 3415, Start Num: 12
Candidate Starts for IPhane7_10:
(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 12 @3645 has 43 MA's), (14, 3633), (22, 3564), (25, 3540), (26, 3495), (28, 3489),

Gene: IPhane7_125 Start: 66361, Stop: 66594, Start Num: 12
Candidate Starts for IPhane7_125:
(Start: 12 @66361 has 43 MA's), (15, 66379), (17, 66388), (18, 66391), (29, 66511), (33, 66535),

Gene: LilhomieP_10 Start: 3645, Stop: 3415, Start Num: 12
Candidate Starts for LilhomieP_10:
(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 12 @3645 has 43 MA's), (14, 3633), (22, 3564), (25, 3540), (26, 3495), (28, 3489),

Gene: LilhomieP_127 Start: 67639, Stop: 67872, Start Num: 12
Candidate Starts for LilhomieP_127:
(Start: 12 @67639 has 43 MA's), (15, 67657), (17, 67666), (18, 67669), (29, 67789), (33, 67813), (38, 67837),

Gene: MaryV_83 Start: 51738, Stop: 51971, Start Num: 13
Candidate Starts for MaryV_83:
(9, 51726), (Start: 12 @51735 has 43 MA's), (Start: 13 @51738 has 3 MA's), (23, 51819), (35, 51936),

Gene: MrMagoo_145 Start: 68336, Stop: 68563, Start Num: 12
Candidate Starts for MrMagoo_145:
(8, 68321), (Start: 12 @68336 has 43 MA's), (31, 68498), (37, 68531), (40, 68558),

Gene: MrMagoo_14 Start: 4245, Stop: 4018, Start Num: 12
Candidate Starts for MrMagoo_14:
(Start: 12 @4245 has 43 MA's), (16, 4224), (20, 4194), (25, 4143),

Gene: Nanosmite_139 Start: 68420, Stop: 68656, Start Num: 12
Candidate Starts for Nanosmite_139:
(7, 68360), (10, 68414), (Start: 12 @68420 has 43 MA's), (15, 68438), (21, 68480), (29, 68570), (37, 68615), (41, 68648),

Gene: Nanosmite_14 Start: 4397, Stop: 4167, Start Num: 12
Candidate Starts for Nanosmite_14:
(Start: 12 @4397 has 43 MA's), (16, 4373), (22, 4316), (30, 4229),

Gene: PegLeg_130 Start: 67523, Stop: 67756, Start Num: 12
Candidate Starts for PegLeg_130:
(Start: 12 @67523 has 43 MA's), (15, 67541), (17, 67550), (18, 67553), (29, 67673), (33, 67697), (38, 67721),

Gene: PegLeg_10 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for PegLeg_10:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Reindeer_9 Start: 3514, Stop: 3284, Start Num: 12
Candidate Starts for Reindeer_9:
(1, 3850), (3, 3748), (4, 3739), (5, 3682), (6, 3634), (11, 3517), (Start: 12 @3514 has 43 MA's), (14, 3502), (16, 3490), (22, 3433), (25, 3409),

Gene: Reindeer_130 Start: 68776, Stop: 69009, Start Num: 12
Candidate Starts for Reindeer_130:
(8, 68764), (Start: 12 @68776 has 43 MA's), (17, 68803), (18, 68806), (21, 68836), (29, 68926), (32, 68941), (33, 68950), (34, 68953), (36, 68965), (39, 68995), (41, 69004),

Gene: Rey_145 Start: 67870, Stop: 68100, Start Num: 12
Candidate Starts for Rey_145:
(8, 67855), (Start: 12 @67870 has 43 MA's), (15, 67888), (21, 67930), (29, 68020), (39, 68089),

Gene: Rey_14 Start: 4475, Stop: 4248, Start Num: 12
Candidate Starts for Rey_14:
(3, 4697), (4, 4688), (5, 4637), (6, 4589), (Start: 12 @4475 has 43 MA's), (16, 4454), (25, 4373),

Gene: Skinny_11 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for Skinny_11:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: Skinny_133 Start: 68640, Stop: 68873, Start Num: 12
Candidate Starts for Skinny_133:
(Start: 12 @68640 has 43 MA's), (15, 68658), (17, 68667), (18, 68670), (29, 68790), (33, 68814), (38, 68838),

Gene: SlimJimmy_10 Start: 3644, Stop: 3414, Start Num: 12
Candidate Starts for SlimJimmy_10:
(2, 3890), (3, 3875), (4, 3866), (6, 3767), (Start: 12 @3644 has 43 MA's), (14, 3632), (22, 3563), (25, 3539), (26, 3494), (28, 3488),

Gene: SlimJimmy_126 Start: 67349, Stop: 67582, Start Num: 12
Candidate Starts for SlimJimmy_126:
(Start: 12 @67349 has 43 MA's), (15, 67367), (17, 67376), (18, 67379), (29, 67499), (33, 67523), (38, 67547),

Gene: TyDawg_122 Start: 66364, Stop: 66597, Start Num: 12
Candidate Starts for TyDawg_122:
(Start: 12 @66364 has 43 MA's), (15, 66382), (17, 66391), (18, 66394), (29, 66514), (33, 66538),

Gene: TyDawg_10 Start: 3645, Stop: 3415, Start Num: 12
Candidate Starts for TyDawg_10:
(2, 3891), (3, 3876), (4, 3867), (6, 3768), (Start: 12 @3645 has 43 MA's), (14, 3633), (22, 3564), (25, 3540), (26, 3495), (28, 3489),

Gene: Wildcat_83 Start: 51748, Stop: 51981, Start Num: 13
Candidate Starts for Wildcat_83:
(9, 51736), (Start: 12 @51745 has 43 MA's), (Start: 13 @51748 has 3 MA's), (23, 51829), (35, 51946),