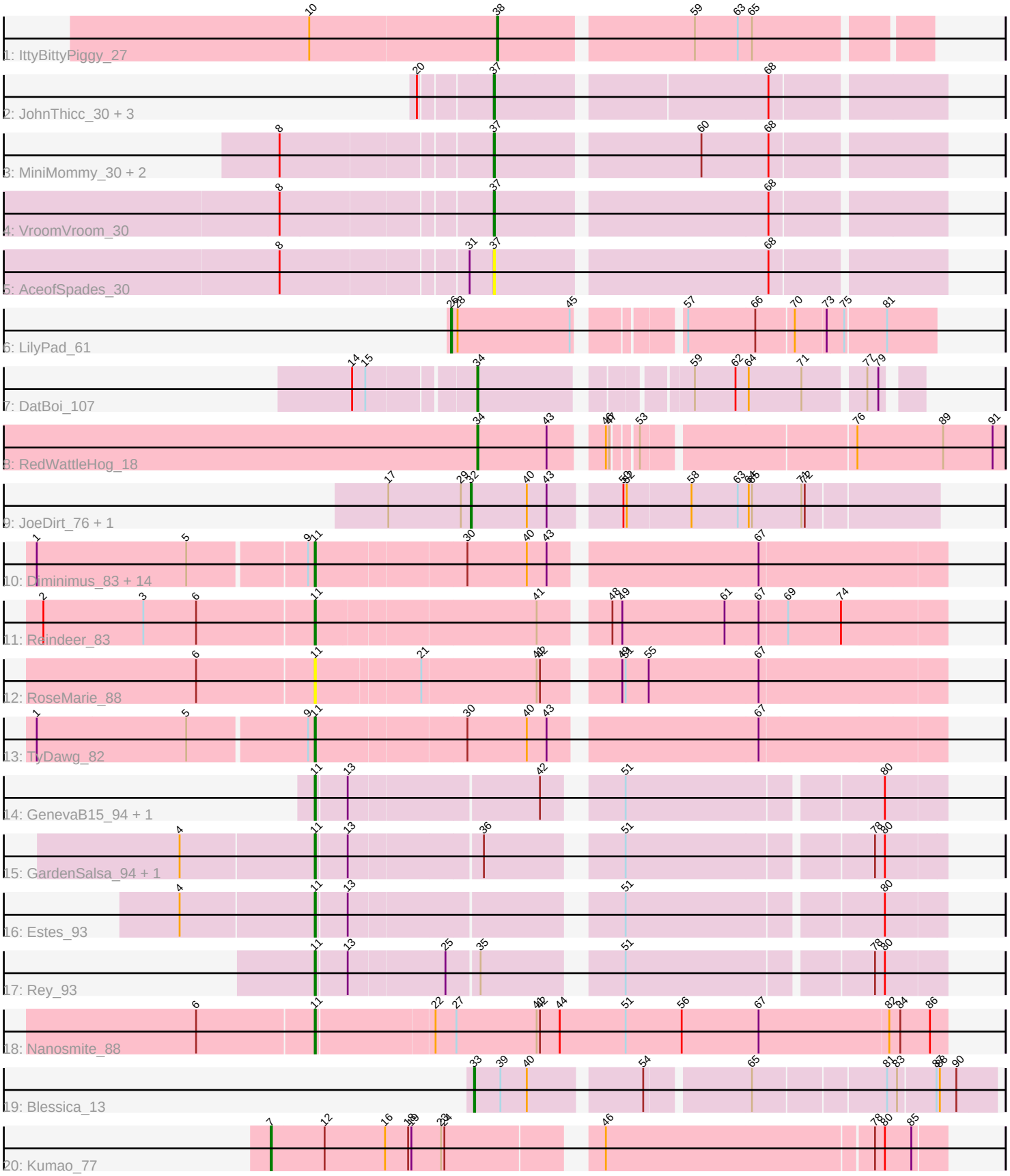
Pham 347774


1: IttyBittyPiggy_27
2: JohnThicc_30 + 3
3: MiniMommy_30 + 2
4: VroomVroom_30
5: AceofSpades_30
6: LilyPad_61
7: DatBoi_107
8: RedWattleHog_18
9: JoeDirt_76 + 1
10: Diminimus_83 + 14
11: Reindeer_83
12: RoseMarie_88
13: TyDawg_82
14: GenevaB15_94 + 1
15: GardenSalsa_94 + 1
16: Estes_93
17: Rey_93
18: Nanosmite_88
19: Blessica_13
20: Kumao_77

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 347774 Report

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

Pham number 347774 has 42 members, 5 are drafts.

Phages represented in each track:
• Track 1 : IttyBittyPiggy_27
• Track 2 : JohnThicc_30, FiveHead_33, LadyAstra_30, Origami_30
• Track 3 : MiniMommy_30, ShakeItOph_30, JasmineDragon_30
• Track 4 : VroomVroom_30
• Track 5 : AceofSpades_30
• Track 6 : LilyPad_61
• Track 7 : DatBoi_107
• Track 8 : RedWattleHog_18
• Track 9 : JoeDirt_76, OhShagHennessy_74
• Track 10 : Diminimus_83, KleverKiS_81, SlimJimmy_81, PegLeg_81, Auspice_82, Izel_83, Dulcita_83, FreakyGoo_84, IPhane7_81, LilhomieP_82, Bongo_82, Bricole_81, Skinny_86, Glaske16_83, TpudiCK_84
• Track 11 : Reindeer_83
• Track 12 : RoseMarie_88
• Track 13 : TyDawg_82
• Track 14 : GenevaB15_94, Aziz_92
• Track 15 : GardenSalsa_94, MrMagoo_95
• Track 16 : Estes_93
• Track 17 : Rey_93
• Track 18 : Nanosmite_88
• Track 19 : Blessica_13
• Track 20 : Kumao_77

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

The start number called the most often in the published annotations is 11, it was called in 22 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Auspice_82, Aziz_92, Bongo_82, Bricole_81, Diminimus_83, Dulcita_83, Estes_93, FreakyGoo_84, GardenSalsa_94, GenevaB15_94, Glaske16_83, IPhane7_81, Izel_83, KleverKiS_81, LilhomieP_82, MrMagoo_95, Nanosmite_88, PegLeg_81, Reindeer_83, Rey_93, RoseMarie_88, Skinny_86, SlimJimmy_81, TpudiCK_84, TyDawg_82,

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

Genes that do not have the "Most Annotated" start:
• AceofSpades_30, Blessica_13, DatBoi_107, FiveHead_33, IttyBittyPiggy_27, JasmineDragon_30, JoeDirt_76, JohnThicc_30, Kumao_77, LadyAstra_30, LilyPad_61, MiniMommy_30, OhShagHennessy_74, Origami_30, RedWattleHog_18, ShakeItOph_30, VroomVroom_30,

Summary by start number:

Start 7:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumao_77 (singleton),

Start 11:
• Found in 25 of 42 (59.5%) of genes in pham
• Manual Annotations of this start: 22 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auspice_82 (M1), Aziz_92 (M2), Bongo_82 (M1), Bricole_81 (M1), Diminimus_83 (M1), Dulcita_83 (M1), Estes_93 (M2), FreakyGoo_84 (M1), GardenSalsa_94 (M2), GenevaB15_94 (M2), Glaske16_83 (M1), IPhane7_81 (M1), Izel_83 (M1), KleverKiS_81 (M1), LilhomieP_82 (M1), MrMagoo_95 (M2), Nanosmite_88 (M3), PegLeg_81 (M1), Reindeer_83 (M1), Rey_93 (M2), RoseMarie_88 (M1), Skinny_86 (M1), SlimJimmy_81 (M1), TpudiCK_84 (M1), TyDawg_82 (M1),

Start 26:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LilyPad_61 (DG1),

Start 32:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 2 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JoeDirt_76 (L1), OhShagHennessy_74 (L1),

Start 33:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Blessica_13 (O),

Start 34:
• Found in 2 of 42 (4.8%) of genes in pham
• Manual Annotations of this start: 2 of 37
• Called 100.0% of time when present

• Phage (with cluster) where this start called: DatBoi_107 (DL), RedWattleHog_18 (DX),

Start 37:
• Found in 9 of 42 (21.4%) of genes in pham
• Manual Annotations of this start: 7 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AceofSpades_30 (AZ4), FiveHead_33 (AZ4), JasmineDragon_30 (AZ4), JohnThicc_30 (AZ4), LadyAstra_30 (AZ4), MiniMommy_30 (AZ4), Origami_30 (AZ4), ShakeItOph_30 (AZ4), VroomVroom_30 (AZ4),

Start 38:
• Found in 1 of 42 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IttyBittyPiggy_27 (AZ1),

Summary by clusters:

There are 11 clusters represented in this pham: DL, M3, L1, singleton, O, DG1, M1, DX, M2, AZ1, AZ4,

Info for manual annotations of cluster AZ1:
•Start number 38 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ4:
•Start number 37 was manually annotated 7 times for cluster AZ4.

Info for manual annotations of cluster DG1:
•Start number 26 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DL:
•Start number 34 was manually annotated 1 time for cluster DL.

Info for manual annotations of cluster DX:
•Start number 34 was manually annotated 1 time for cluster DX.

Info for manual annotations of cluster L1:
•Start number 32 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster M1:
•Start number 11 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 11 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 11 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster O:
•Start number 33 was manually annotated 1 time for cluster O.

Gene Information:

Gene: AceofSpades_30 Start: 22705, Stop: 23088, Start Num: 37
Candidate Starts for AceofSpades_30:
(8, 22525), (31, 22684), (Start: 37 @22705 has 7 MA's), (68, 22939),

Gene: Auspice_82 Start: 51592, Stop: 52134, Start Num: 11
Candidate Starts for Auspice_82:
(1, 51349), (5, 51484), (9, 51586), (Start: 11 @51592 has 22 MA's), (30, 51724), (40, 51778), (43, 51796), (67, 51970),

Gene: Aziz_92 Start: 53866, Stop: 54384, Start Num: 11
Candidate Starts for Aziz_92:
(Start: 11 @53866 has 22 MA's), (13, 53893), (42, 54058), (51, 54112), (80, 54331),

Gene: Blessica_13 Start: 5453, Stop: 5890, Start Num: 33
Candidate Starts for Blessica_13:
(Start: 33 @5453 has 1 MA's), (39, 5477), (40, 5501), (54, 5594), (65, 5681), (81, 5795), (83, 5804), (87, 5837), (88, 5840), (90, 5855),

Gene: Bongo_82 Start: 51596, Stop: 52138, Start Num: 11
Candidate Starts for Bongo_82:
(1, 51353), (5, 51488), (9, 51590), (Start: 11 @51596 has 22 MA's), (30, 51728), (40, 51782), (43, 51800), (67, 51974),

Gene: Bricole_81 Start: 51360, Stop: 51902, Start Num: 11
Candidate Starts for Bricole_81:
(1, 51117), (5, 51252), (9, 51354), (Start: 11 @51360 has 22 MA's), (30, 51492), (40, 51546), (43, 51564), (67, 51738),

Gene: DatBoi_107 Start: 69816, Stop: 70166, Start Num: 34
Candidate Starts for DatBoi_107:
(14, 69714), (15, 69726), (Start: 34 @69816 has 2 MA's), (59, 69981), (62, 70017), (64, 70029), (71, 70077), (77, 70128), (79, 70137),

Gene: Diminimus_83 Start: 51591, Stop: 52133, Start Num: 11
Candidate Starts for Diminimus_83:
(1, 51348), (5, 51483), (9, 51585), (Start: 11 @51591 has 22 MA's), (30, 51723), (40, 51777), (43, 51795), (67, 51969),

Gene: Dulcita_83 Start: 51592, Stop: 52134, Start Num: 11
Candidate Starts for Dulcita_83:
(1, 51349), (5, 51484), (9, 51586), (Start: 11 @51592 has 22 MA's), (30, 51724), (40, 51778), (43, 51796), (67, 51970),

Gene: Estes_93 Start: 53965, Stop: 54483, Start Num: 11
Candidate Starts for Estes_93:
(4, 53845), (Start: 11 @53965 has 22 MA's), (13, 53992), (51, 54211), (80, 54430),

Gene: FiveHead_33 Start: 22717, Stop: 23097, Start Num: 37
Candidate Starts for FiveHead_33:

(20, 22657), (Start: 37 @22717 has 7 MA's), (68, 22948),

Gene: FreakyGoo_84 Start: 52071, Stop: 52613, Start Num: 11
Candidate Starts for FreakyGoo_84:
(1, 51828), (5, 51963), (9, 52065), (Start: 11 @52071 has 22 MA's), (30, 52203), (40, 52257), (43, 52275), (67, 52449),

Gene: GardenSalsa_94 Start: 54325, Stop: 54843, Start Num: 11
Candidate Starts for GardenSalsa_94:
(4, 54205), (Start: 11 @54325 has 22 MA's), (13, 54352), (36, 54466), (51, 54571), (78, 54781), (80, 54790),

Gene: GenevaB15_94 Start: 53866, Stop: 54384, Start Num: 11
Candidate Starts for GenevaB15_94:
(Start: 11 @53866 has 22 MA's), (13, 53893), (42, 54058), (51, 54112), (80, 54331),

Gene: Glaske16_83 Start: 51656, Stop: 52198, Start Num: 11
Candidate Starts for Glaske16_83:
(1, 51413), (5, 51548), (9, 51650), (Start: 11 @51656 has 22 MA's), (30, 51788), (40, 51842), (43, 51860), (67, 52034),

Gene: IPhane7_81 Start: 51596, Stop: 52138, Start Num: 11
Candidate Starts for IPhane7_81:
(1, 51353), (5, 51488), (9, 51590), (Start: 11 @51596 has 22 MA's), (30, 51728), (40, 51782), (43, 51800), (67, 51974),

Gene: IttyBittyPiggy_27 Start: 22317, Stop: 22682, Start Num: 38
Candidate Starts for IttyBittyPiggy_27:
(10, 22149), (Start: 38 @22317 has 1 MA's), (59, 22482), (63, 22521), (65, 22533),

Gene: Izel_83 Start: 51591, Stop: 52133, Start Num: 11
Candidate Starts for Izel_83:
(1, 51348), (5, 51483), (9, 51585), (Start: 11 @51591 has 22 MA's), (30, 51723), (40, 51777), (43, 51795), (67, 51969),

Gene: JasmineDragon_30 Start: 22617, Stop: 23000, Start Num: 37
Candidate Starts for JasmineDragon_30:
(8, 22437), (Start: 37 @22617 has 7 MA's), (60, 22791), (68, 22851),

Gene: JoeDirt_76 Start: 51825, Stop: 52229, Start Num: 32
Candidate Starts for JoeDirt_76:
(17, 51750), (29, 51816), (Start: 32 @51825 has 2 MA's), (40, 51876), (43, 51894), (50, 51951), (52, 51954), (58, 52011), (63, 52053), (64, 52062), (65, 52065), (71, 52110), (72, 52113),

Gene: JohnThicc_30 Start: 22717, Stop: 23097, Start Num: 37
Candidate Starts for JohnThicc_30:
(20, 22657), (Start: 37 @22717 has 7 MA's), (68, 22948),

Gene: KleverKiS_81 Start: 51354, Stop: 51896, Start Num: 11
Candidate Starts for KleverKiS_81:
(1, 51111), (5, 51246), (9, 51348), (Start: 11 @51354 has 22 MA's), (30, 51486), (40, 51540), (43, 51558), (67, 51732),

Gene: Kumao_77 Start: 51889, Stop: 52464, Start Num: 7
Candidate Starts for Kumao_77:
(Start: 7 @51889 has 1 MA's), (12, 51937), (16, 51991), (18, 52012), (19, 52015), (23, 52042), (24, 52045), (46, 52165), (78, 52402), (80, 52411), (85, 52435),

Gene: LadyAstra_30 Start: 22651, Stop: 23034, Start Num: 37
Candidate Starts for LadyAstra_30:
(20, 22591), (Start: 37 @22651 has 7 MA's), (68, 22885),

Gene: LilhomieP_82 Start: 52075, Stop: 52617, Start Num: 11
Candidate Starts for LilhomieP_82:
(1, 51832), (5, 51967), (9, 52069), (Start: 11 @52075 has 22 MA's), (30, 52207), (40, 52261), (43, 52279), (67, 52453),

Gene: LilyPad_61 Start: 44847, Stop: 45245, Start Num: 26
Candidate Starts for LilyPad_61:
(Start: 26 @44847 has 1 MA's), (28, 44853), (45, 44955), (57, 45030), (66, 45090), (70, 45123), (73, 45150), (75, 45165), (81, 45201),

Gene: MiniMommy_30 Start: 22618, Stop: 23001, Start Num: 37
Candidate Starts for MiniMommy_30:
(8, 22438), (Start: 37 @22618 has 7 MA's), (60, 22792), (68, 22852),

Gene: MrMagoo_95 Start: 54325, Stop: 54843, Start Num: 11
Candidate Starts for MrMagoo_95:
(4, 54205), (Start: 11 @54325 has 22 MA's), (13, 54352), (36, 54466), (51, 54571), (78, 54781), (80, 54790),

Gene: Nanosmite_88 Start: 53290, Stop: 53850, Start Num: 11
Candidate Starts for Nanosmite_88:
(6, 53185), (Start: 11 @53290 has 22 MA's), (22, 53392), (27, 53410), (41, 53482), (42, 53485), (44, 53503), (51, 53563), (56, 53614), (67, 53683), (82, 53800), (84, 53809), (86, 53836),

Gene: OhShagHennessy_74 Start: 50528, Stop: 50932, Start Num: 32
Candidate Starts for OhShagHennessy_74:
(17, 50453), (29, 50519), (Start: 32 @50528 has 2 MA's), (40, 50579), (43, 50597), (50, 50654), (52, 50657), (58, 50714), (63, 50756), (64, 50765), (65, 50768), (71, 50813), (72, 50816),

Gene: Origami_30 Start: 22651, Stop: 23034, Start Num: 37
Candidate Starts for Origami_30:
(20, 22591), (Start: 37 @22651 has 7 MA's), (68, 22885),

Gene: PegLeg_81 Start: 51336, Stop: 51878, Start Num: 11
Candidate Starts for PegLeg_81:
(1, 51093), (5, 51228), (9, 51330), (Start: 11 @51336 has 22 MA's), (30, 51468), (40, 51522), (43, 51540), (67, 51714),

Gene: RedWattleHog_18 Start: 21845, Stop: 22282, Start Num: 34
Candidate Starts for RedWattleHog_18:
(Start: 34 @21845 has 2 MA's), (43, 21908), (46, 21947), (47, 21950), (53, 21968), (76, 22148), (89, 22226), (91, 22271),

Gene: Reindeer_83 Start: 52390, Stop: 52929, Start Num: 11

Candidate Starts for Reindeer_83:
(2, 52147), (3, 52237), (6, 52285), (Start: 11 @52390 has 22 MA's), (41, 52582), (48, 52633), (49, 52642), (61, 52735), (67, 52765), (69, 52789), (74, 52837),

Gene: Rey_93 Start: 53635, Stop: 54153, Start Num: 11
Candidate Starts for Rey_93:
(Start: 11 @53635 has 22 MA's), (13, 53662), (25, 53746), (35, 53773), (51, 53881), (78, 54091), (80, 54100),

Gene: RoseMarie_88 Start: 55321, Stop: 55860, Start Num: 11
Candidate Starts for RoseMarie_88:
(6, 55216), (Start: 11 @55321 has 22 MA's), (21, 55411), (41, 55513), (42, 55516), (49, 55573), (51, 55576), (55, 55597), (67, 55696),

Gene: ShakeItOph_30 Start: 22617, Stop: 23000, Start Num: 37
Candidate Starts for ShakeItOph_30:
(8, 22437), (Start: 37 @22617 has 7 MA's), (60, 22791), (68, 22851),

Gene: Skinny_86 Start: 52504, Stop: 53046, Start Num: 11
Candidate Starts for Skinny_86:
(1, 52261), (5, 52396), (9, 52498), (Start: 11 @52504 has 22 MA's), (30, 52636), (40, 52690), (43, 52708), (67, 52882),

Gene: SlimJimmy_81 Start: 51933, Stop: 52475, Start Num: 11
Candidate Starts for SlimJimmy_81:
(1, 51690), (5, 51825), (9, 51927), (Start: 11 @51933 has 22 MA's), (30, 52065), (40, 52119), (43, 52137), (67, 52311),

Gene: TpudiCK_84 Start: 51596, Stop: 52138, Start Num: 11
Candidate Starts for TpudiCK_84:
(1, 51353), (5, 51488), (9, 51590), (Start: 11 @51596 has 22 MA's), (30, 51728), (40, 51782), (43, 51800), (67, 51974),

Gene: TyDawg_82 Start: 51599, Stop: 52141, Start Num: 11
Candidate Starts for TyDawg_82:
(1, 51353), (5, 51488), (9, 51593), (Start: 11 @51599 has 22 MA's), (30, 51731), (40, 51785), (43, 51803), (67, 51977),

Gene: VroomVroom_30 Start: 22712, Stop: 23095, Start Num: 37
Candidate Starts for VroomVroom_30:
(8, 22532), (Start: 37 @22712 has 7 MA's), (68, 22946),