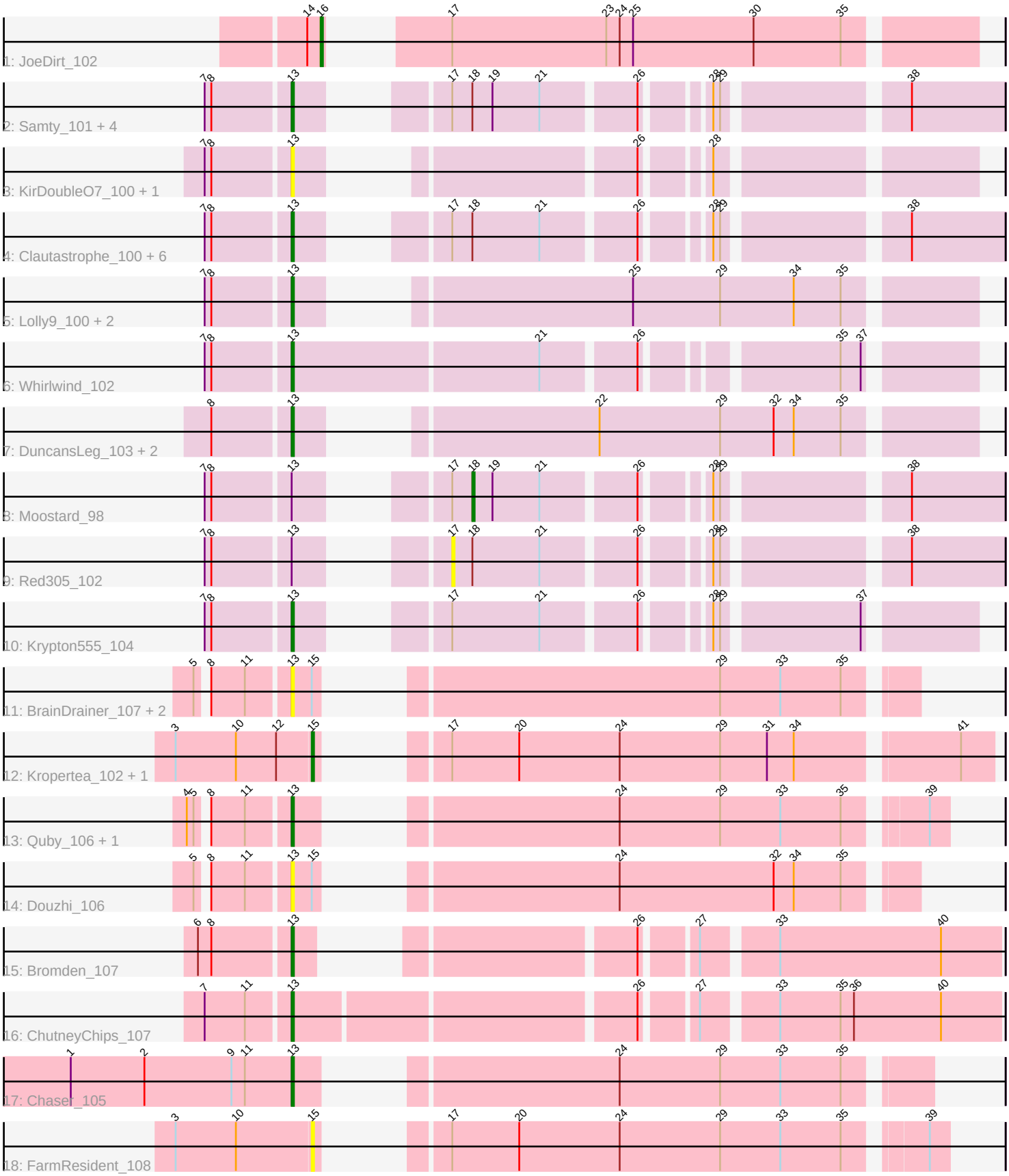
Pham 347824


1: JoeDirt_102
2: Samty_101 + 4
3: KirDoubleO7_100 + 1
4: Clautastrophe_100 + 6
5: Lolly9_100 + 2
6: Whirlwind_102
7: DuncansLeg_103 + 2
8: Moostard_98
9: Red305_102
10: Krypton555_104
11: BrainDrainer_107 + 2
12: Kropertea_102 + 1
13: Quby_106 + 1
14: Douzhi_106
15: Bromden_107
16: ChutneyChips_107
17: Chaser_105
18: FarmResident_108

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 347824 Report

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

Pham number 347824 has 37 members, 11 are drafts.

Phages represented in each track:
• Track 1 : JoeDirt_102
• Track 2 : Samty_101, Kingsolomon_99, Bellis_102, Finnry_102, Nicholas_99
• Track 3 : KirDoubleO7_100, Ellson_101
• Track 4 : Clautastrophe_100, Lumos_101, Jubie_101, MsGreen_102, Jobypre_101, TriFive_102, Snenia_100
• Track 5 : Lolly9_100, MiniLon_105, MiniMac_105
• Track 6 : Whirlwind_102
• Track 7 : DuncansLeg_103, BourbonZero_103, LiyuLake_101
• Track 8 : Moostard_98
• Track 9 : Red305_102
• Track 10 : Krypton555_104
• Track 11 : BrainDrainer_107, PYPDinur_106, Sheng711_107
• Track 12 : Kropertea_102, DyoEdafos_109
• Track 13 : Quby_106, Douge_106
• Track 14 : Douzhi_106
• Track 15 : Bromden_107
• Track 16 : ChutneyChips_107
• Track 17 : Chaser_105
• Track 18 : FarmResident_108

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

The start number called the most often in the published annotations is 13, it was called in 22 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bellis_102, BourbonZero_103, BrainDrainer_107, Bromden_107, Chaser_105, ChutneyChips_107, Clautastrophe_100, Douge_106, Douzhi_106, DuncansLeg_103, Ellson_101, Finnry_102, Jobypre_101, Jubie_101, Kingsolomon_99, KirDoubleO7_100, Krypton555_104, LiyuLake_101, Lolly9_100, Lumos_101, MiniLon_105, MiniMac_105, MsGreen_102, Nicholas_99, PYPDinur_106, Quby_106, Samty_101, Sheng711_107, Snenia_100, TriFive_102, Whirlwind_102,

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

• Moostard_98, Red305_102,

Genes that do not have the "Most Annotated" start:
• DyoEdafos_109, FarmResident_108, JoeDirt_102, Kropertea_102,

Summary by start number:

Start 13:
• Found in 33 of 37 (89.2%) of genes in pham
• Manual Annotations of this start: 22 of 26
• Called 93.9% of time when present
• Phage (with cluster) where this start called: Bellis_102 (L3), BourbonZero_103 (L3), BrainDrainer_107 (L4), Bromden_107 (L4), Chaser_105 (L4), ChutneyChips_107 (L4), Clautastrophe_100 (L3), Douge_106 (L4), Douzhi_106 (L4), DuncansLeg_103 (L3), Ellson_101 (L3), Finnry_102 (L3), Jobypre_101 (L3), Jubie_101 (L3), Kingsolomon_99 (L3), KirDoubleO7_100 (L3), Krypton555_104 (L3), LiyuLake_101 (L3), Lolly9_100 (L3), Lumos_101 (L3), MiniLon_105 (L3), MiniMac_105 (L3), MsGreen_102 (L3), Nicholas_99 (L3), PYPDinur_106 (L4), Quby_106 (L4), Samty_101 (L3), Sheng711_107 (L4), Snenia_100 (L3), TriFive_102 (L3), Whirlwind_102 (L3),

Start 15:
• Found in 7 of 37 (18.9%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 42.9% of time when present
• Phage (with cluster) where this start called: DyoEdafos_109 (L4), FarmResident_108 (L4), Kropertea_102 (L4),

Start 16:
• Found in 1 of 37 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JoeDirt_102 (L1),

Start 17:
• Found in 19 of 37 (51.4%) of genes in pham
• No Manual Annotations of this start.
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Red305_102 (L3),

Start 18:
• Found in 14 of 37 (37.8%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Moostard_98 (L3),

Summary by clusters:

There are 3 clusters represented in this pham: L4, L3, L1,

Info for manual annotations of cluster L1:
•Start number 16 was manually annotated 1 time for cluster L1.

Info for manual annotations of cluster L3:
•Start number 13 was manually annotated 18 times for cluster L3.
•Start number 18 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:
•Start number 13 was manually annotated 4 times for cluster L4.
•Start number 15 was manually annotated 2 times for cluster L4.

Gene Information:

Gene: Bellis_102 Start: 62373, Stop: 62630, Start Num: 13
Candidate Starts for Bellis_102:
(7, 62337), (8, 62340), (Start: 13 @62373 has 22 MA's), (17, 62412), (Start: 18 @62421 has 1 MA's), (19, 62430), (21, 62451), (26, 62490), (28, 62514), (29, 62517), (38, 62589),

Gene: BourbonZero_103 Start: 62553, Stop: 62810, Start Num: 13
Candidate Starts for BourbonZero_103:
(8, 62520), (Start: 13 @62553 has 22 MA's), (22, 62649), (29, 62703), (32, 62727), (34, 62736), (35, 62757),

Gene: BrainDrainer_107 Start: 62854, Stop: 63084, Start Num: 13
Candidate Starts for BrainDrainer_107:
(5, 62818), (8, 62821), (11, 62836), (Start: 13 @62854 has 22 MA's), (Start: 15 @62863 has 2 MA's), (29, 63004), (33, 63031), (35, 63058),

Gene: Bromden_107 Start: 64006, Stop: 64263, Start Num: 13
Candidate Starts for Bromden_107:
(6, 63967), (8, 63973), (Start: 13 @64006 has 22 MA's), (26, 64114), (27, 64135), (33, 64165), (40, 64237),

Gene: Chaser_105 Start: 62309, Stop: 62545, Start Num: 13
Candidate Starts for Chaser_105:
(1, 62210), (2, 62243), (9, 62282), (11, 62288), (Start: 13 @62309 has 22 MA's), (24, 62414), (29, 62459), (33, 62486), (35, 62513),

Gene: ChutneyChips_107 Start: 62929, Stop: 63222, Start Num: 13
Candidate Starts for ChutneyChips_107:
(7, 62893), (11, 62911), (Start: 13 @62929 has 22 MA's), (26, 63073), (27, 63094), (33, 63124), (35, 63151), (36, 63157), (40, 63196),

Gene: Clautastrophe_100 Start: 62368, Stop: 62625, Start Num: 13
Candidate Starts for Clautastrophe_100:
(7, 62332), (8, 62335), (Start: 13 @62368 has 22 MA's), (17, 62407), (Start: 18 @62416 has 1 MA's), (21, 62446), (26, 62485), (28, 62509), (29, 62512), (38, 62584),

Gene: Douge_106 Start: 62274, Stop: 62516, Start Num: 13
Candidate Starts for Douge_106:
(4, 62235), (5, 62238), (8, 62241), (11, 62256), (Start: 13 @62274 has 22 MA's), (24, 62379), (29, 62424), (33, 62451), (35, 62478), (39, 62508),

Gene: Douzhi_106 Start: 62543, Stop: 62773, Start Num: 13

Candidate Starts for Douzhi_106:
(5, 62507), (8, 62510), (11, 62525), (Start: 13 @62543 has 22 MA's), (Start: 15 @62552 has 2 MA's), (24, 62648), (32, 62717), (34, 62726), (35, 62747),

Gene: DuncansLeg_103 Start: 62541, Stop: 62798, Start Num: 13
Candidate Starts for DuncansLeg_103:
(8, 62508), (Start: 13 @62541 has 22 MA's), (22, 62637), (29, 62691), (32, 62715), (34, 62724), (35, 62745),

Gene: DyoEdafos_109 Start: 63096, Stop: 63350, Start Num: 15
Candidate Starts for DyoEdafos_109:
(3, 63036), (10, 63063), (12, 63081), (Start: 15 @63096 has 2 MA's), (17, 63117), (20, 63147), (24, 63192), (29, 63237), (31, 63258), (34, 63270), (41, 63336),

Gene: Ellson_101 Start: 62856, Stop: 63092, Start Num: 13
Candidate Starts for Ellson_101:
(7, 62820), (8, 62823), (Start: 13 @62856 has 22 MA's), (26, 62964), (28, 62988),

Gene: FarmResident_108 Start: 62701, Stop: 62934, Start Num: 15
Candidate Starts for FarmResident_108:
(3, 62641), (10, 62668), (Start: 15 @62701 has 2 MA's), (17, 62722), (20, 62752), (24, 62797), (29, 62842), (33, 62869), (35, 62896), (39, 62926),

Gene: Finnry_102 Start: 62721, Stop: 62978, Start Num: 13
Candidate Starts for Finnry_102:
(7, 62685), (8, 62688), (Start: 13 @62721 has 22 MA's), (17, 62760), (Start: 18 @62769 has 1 MA's), (19, 62778), (21, 62799), (26, 62838), (28, 62862), (29, 62865), (38, 62937),

Gene: Jobypre_101 Start: 62368, Stop: 62625, Start Num: 13
Candidate Starts for Jobypre_101:
(7, 62332), (8, 62335), (Start: 13 @62368 has 22 MA's), (17, 62407), (Start: 18 @62416 has 1 MA's), (21, 62446), (26, 62485), (28, 62509), (29, 62512), (38, 62584),

Gene: JoeDirt_102 Start: 61308, Stop: 61562, Start Num: 16
Candidate Starts for JoeDirt_102:
(14, 61302), (Start: 16 @61308 has 1 MA's), (17, 61335), (23, 61404), (24, 61410), (25, 61416), (30, 61470), (35, 61509),

Gene: Jubie_101 Start: 62503, Stop: 62760, Start Num: 13
Candidate Starts for Jubie_101:
(7, 62467), (8, 62470), (Start: 13 @62503 has 22 MA's), (17, 62542), (Start: 18 @62551 has 1 MA's), (21, 62581), (26, 62620), (28, 62644), (29, 62647), (38, 62719),

Gene: Kingsolomon_99 Start: 62477, Stop: 62734, Start Num: 13
Candidate Starts for Kingsolomon_99:
(7, 62441), (8, 62444), (Start: 13 @62477 has 22 MA's), (17, 62516), (Start: 18 @62525 has 1 MA's), (19, 62534), (21, 62555), (26, 62594), (28, 62618), (29, 62621), (38, 62693),

Gene: KirDoubleO7_100 Start: 62543, Stop: 62779, Start Num: 13
Candidate Starts for KirDoubleO7_100:
(7, 62507), (8, 62510), (Start: 13 @62543 has 22 MA's), (26, 62651), (28, 62675),

Gene: Kropertea_102 Start: 62334, Stop: 62588, Start Num: 15

Candidate Starts for Kropertea_102:
(3, 62274), (10, 62301), (12, 62319), (Start: 15 @62334 has 2 MA's), (17, 62355), (20, 62385), (24, 62430), (29, 62475), (31, 62496), (34, 62508), (41, 62574),

Gene: Krypton555_104 Start: 62789, Stop: 63034, Start Num: 13
Candidate Starts for Krypton555_104:
(7, 62753), (8, 62756), (Start: 13 @62789 has 22 MA's), (17, 62828), (21, 62867), (26, 62906), (28, 62930), (29, 62933), (37, 62990),

Gene: LiyuLake_101 Start: 62616, Stop: 62873, Start Num: 13
Candidate Starts for LiyuLake_101:
(8, 62583), (Start: 13 @62616 has 22 MA's), (22, 62712), (29, 62766), (32, 62790), (34, 62799), (35, 62820),

Gene: Lolly9_100 Start: 62459, Stop: 62716, Start Num: 13
Candidate Starts for Lolly9_100:
(7, 62423), (8, 62426), (Start: 13 @62459 has 22 MA's), (25, 62570), (29, 62609), (34, 62642), (35, 62663),

Gene: Lumos_101 Start: 62365, Stop: 62622, Start Num: 13
Candidate Starts for Lumos_101:
(7, 62329), (8, 62332), (Start: 13 @62365 has 22 MA's), (17, 62404), (Start: 18 @62413 has 1 MA's), (21, 62443), (26, 62482), (28, 62506), (29, 62509), (38, 62581),

Gene: MiniLon_105 Start: 62460, Stop: 62717, Start Num: 13
Candidate Starts for MiniLon_105:
(7, 62424), (8, 62427), (Start: 13 @62460 has 22 MA's), (25, 62571), (29, 62610), (34, 62643), (35, 62664),

Gene: MiniMac_105 Start: 62455, Stop: 62712, Start Num: 13
Candidate Starts for MiniMac_105:
(7, 62419), (8, 62422), (Start: 13 @62455 has 22 MA's), (25, 62566), (29, 62605), (34, 62638), (35, 62659),

Gene: Moostard_98 Start: 62520, Stop: 62729, Start Num: 18
Candidate Starts for Moostard_98:
(7, 62436), (8, 62439), (Start: 13 @62472 has 22 MA's), (17, 62511), (Start: 18 @62520 has 1 MA's), (19, 62529), (21, 62550), (26, 62589), (28, 62613), (29, 62616), (38, 62688),

Gene: MsGreen_102 Start: 62367, Stop: 62624, Start Num: 13
Candidate Starts for MsGreen_102:
(7, 62331), (8, 62334), (Start: 13 @62367 has 22 MA's), (17, 62406), (Start: 18 @62415 has 1 MA's), (21, 62445), (26, 62484), (28, 62508), (29, 62511), (38, 62583),

Gene: Nicholas_99 Start: 62477, Stop: 62734, Start Num: 13
Candidate Starts for Nicholas_99:
(7, 62441), (8, 62444), (Start: 13 @62477 has 22 MA's), (17, 62516), (Start: 18 @62525 has 1 MA's), (19, 62534), (21, 62555), (26, 62594), (28, 62618), (29, 62621), (38, 62693),

Gene: PYPDinur_106 Start: 63106, Stop: 63336, Start Num: 13
Candidate Starts for PYPDinur_106:
(5, 63070), (8, 63073), (11, 63088), (Start: 13 @63106 has 22 MA's), (Start: 15 @63115 has 2 MA's), (29, 63256), (33, 63283), (35, 63310),

Gene: Quby_106 Start: 62432, Stop: 62674, Start Num: 13
Candidate Starts for Quby_106:
(4, 62393), (5, 62396), (8, 62399), (11, 62414), (Start: 13 @62432 has 22 MA's), (24, 62537), (29, 62582), (33, 62609), (35, 62636), (39, 62666),

Gene: Red305_102 Start: 62407, Stop: 62625, Start Num: 17
Candidate Starts for Red305_102:
(7, 62332), (8, 62335), (Start: 13 @62368 has 22 MA's), (17, 62407), (Start: 18 @62416 has 1 MA's), (21, 62446), (26, 62485), (28, 62509), (29, 62512), (38, 62584),

Gene: Samty_101 Start: 62465, Stop: 62722, Start Num: 13
Candidate Starts for Samty_101:
(7, 62429), (8, 62432), (Start: 13 @62465 has 22 MA's), (17, 62504), (Start: 18 @62513 has 1 MA's), (19, 62522), (21, 62543), (26, 62582), (28, 62606), (29, 62609), (38, 62681),

Gene: Sheng711_107 Start: 62630, Stop: 62860, Start Num: 13
Candidate Starts for Sheng711_107:
(5, 62594), (8, 62597), (11, 62612), (Start: 13 @62630 has 22 MA's), (Start: 15 @62639 has 2 MA's), (29, 62780), (33, 62807), (35, 62834),

Gene: Snenia_100 Start: 62369, Stop: 62626, Start Num: 13
Candidate Starts for Snenia_100:
(7, 62333), (8, 62336), (Start: 13 @62369 has 22 MA's), (17, 62408), (Start: 18 @62417 has 1 MA's), (21, 62447), (26, 62486), (28, 62510), (29, 62513), (38, 62585),

Gene: TriFive_102 Start: 62481, Stop: 62738, Start Num: 13
Candidate Starts for TriFive_102:
(7, 62445), (8, 62448), (Start: 13 @62481 has 22 MA's), (17, 62520), (Start: 18 @62529 has 1 MA's), (21, 62559), (26, 62598), (28, 62622), (29, 62625), (38, 62697),

Gene: Whirlwind_102 Start: 62617, Stop: 62892, Start Num: 13
Candidate Starts for Whirlwind_102:
(7, 62581), (8, 62584), (Start: 13 @62617 has 22 MA's), (21, 62725), (26, 62764), (35, 62839), (37, 62848),