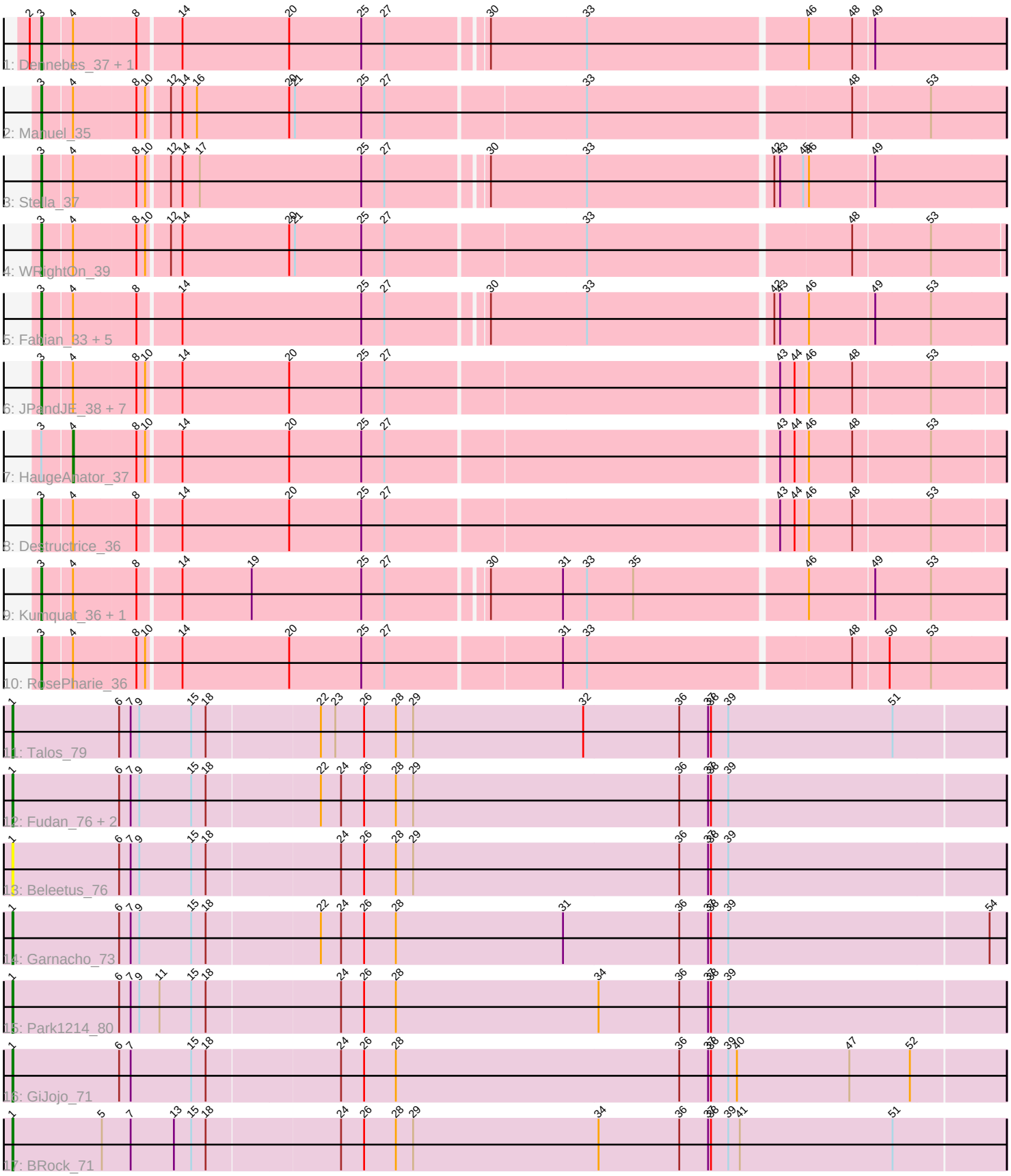
Pham 333060


1: Dennebes_37 + 1
2: Manuel_35
3: Stella_37
4: WRightOn_39
5: Fabian_33 + 5
6: JPandJE_38 + 7
7: HaugeAmator_37
8: Destructrice_36
9: Kumquat_36 + 1
10: RosePharie_36
11: Talos_79
12: Fudan_76 + 2
13: Beleetus_76
14: Garnacho_73
15: Park1214_80
16: GiJojo_71
17: BRock_71

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 333060 Report

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

Pham number 333060 has 33 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Dennebes_37, Rideau_38
• Track 2 : Manuel_35
• Track 3 : Stella_37
• Track 4 : WRightOn_39
• Track 5 : Fabian_33, FlowerPower_36, Gremlin23_36, RetrieverFever_36, Vrykolakas_36, Geostin_31
• Track 6 : JPandJE_38, Percastrophe_37, ZooBear_37, Romero_37, Treat_37, Olicious_37, Immanuel3_37, ToriToki_37
• Track 7 : HaugeAnator_37
• Track 8 : Destructrice_36
• Track 9 : Kumquat_36, Zeigle_36
• Track 10 : RosePharie_36
• Track 11 : Talos_79
• Track 12 : Fudan_76, Alone3_80, LuckySocke_78
• Track 13 : Beleetus_76
• Track 14 : Garnacho_73
• Track 15 : Park1214_80
• Track 16 : GiJojo_71
• Track 17 : BRock_71

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

The start number called the most often in the published annotations is 3, it was called in 22 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dennebes_37, Destructrice_36, Fabian_33, FlowerPower_36, Geostin_31, Gremlin23_36, Immanuel3_37, JPandJE_38, Kumquat_36, Manuel_35, Olicious_37, Percastrophe_37, RetrieverFever_36, Rideau_38, Romero_37, RosePharie_36, Stella_37, ToriToki_37, Treat_37, Vrykolakas_36, WRightOn_39, Zeigle_36, ZooBear_37,

Genes that have the "Most Annotated" start but do not call it:
• HaugeAnator_37,

Genes that do not have the "Most Annotated" start:
• Alone3_80, BRock_71, Beleetus_76, Fudan_76, Garnacho_73, GiJojo_71, LuckySocke_78, Park1214_80, Talos_79,

Summary by start number:

Start 1:
• Found in 9 of 33 (27.3%) of genes in pham
• Manual Annotations of this start: 8 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alone3_80 (BS), BRock_71 (BS), Beleetus_76 (BS), Fudan_76 (BS), Garnacho_73 (BS), GiJojo_71 (BS), LuckySocke_78 (BS), Park1214_80 (BS), Talos_79 (BS),

Start 3:
• Found in 24 of 33 (72.7%) of genes in pham
• Manual Annotations of this start: 22 of 31
• Called 95.8% of time when present
• Phage (with cluster) where this start called: Dennebes_37 (BF), Destructrice_36 (BF), Fabian_33 (BF), FlowerPower_36 (BF), Geostin_31 (BF), Gremlin23_36 (BF), Immanuel3_37 (BF), JPandJE_38 (BF), Kumquat_36 (BF), Manuel_35 (BF), Olicious_37 (BF), Percastrophe_37 (BF), RetrieverFever_36 (BF), Rideau_38 (BF), Romero_37 (BF), RosePharie_36 (BF), Stella_37 (BF), ToriToki_37 (BF), Treat_37 (BF), Vrykolakas_36 (BF), WRightOn_39 (BF), Zeigle_36 (BF), ZooBear_37 (BF),

Start 4:
• Found in 24 of 33 (72.7%) of genes in pham
• Manual Annotations of this start: 1 of 31
• Called 4.2% of time when present
• Phage (with cluster) where this start called: HaugeAnator_37 (BF),

Summary by clusters:

There are 2 clusters represented in this pham: BF, BS,

Info for manual annotations of cluster BF:
•Start number 3 was manually annotated 22 times for cluster BF.
•Start number 4 was manually annotated 1 time for cluster BF.

Info for manual annotations of cluster BS:
•Start number 1 was manually annotated 8 times for cluster BS.

Gene Information:

Gene: Alone3_80 Start: 32515, Stop: 33537, Start Num: 1
Candidate Starts for Alone3_80:
(Start: 1 @32515 has 8 MA's), (6, 32626), (7, 32638), (9, 32647), (15, 32701), (18, 32716), (22, 32830), (24, 32851), (26, 32875), (28, 32908), (29, 32926), (36, 33202), (37, 33232), (38, 33235), (39, 33253),

Gene: BRock_71 Start: 29046, Stop: 30068, Start Num: 1

Candidate Starts for BRock_71:
(Start: 1 @29046 has 8 MA's), (5, 29139), (7, 29169), (13, 29214), (15, 29232), (18, 29247), (24, 29382), (26, 29406), (28, 29439), (29, 29457), (34, 29649), (36, 29733), (37, 29763), (38, 29766), (39, 29784), (41, 29796), (51, 29955),

Gene: Beleetus_76 Start: 30639, Stop: 31661, Start Num: 1
Candidate Starts for Beleetus_76:
(Start: 1 @30639 has 8 MA's), (6, 30750), (7, 30762), (9, 30771), (15, 30825), (18, 30840), (24, 30975), (26, 30999), (28, 31032), (29, 31050), (36, 31326), (37, 31356), (38, 31359), (39, 31377),

Gene: Dennebes_37 Start: 18833, Stop: 19795, Start Num: 3
Candidate Starts for Dennebes_37:
(2, 18821), (Start: 3 @18833 has 22 MA's), (Start: 4 @18863 has 1 MA's), (8, 18926), (14, 18968), (20, 19079), (25, 19154), (27, 19178), (30, 19274), (33, 19373), (46, 19595), (48, 19640), (49, 19661),

Gene: Destructrice_36 Start: 18578, Stop: 19540, Start Num: 3
Candidate Starts for Destructrice_36:
(Start: 3 @18578 has 22 MA's), (Start: 4 @18608 has 1 MA's), (8, 18671), (14, 18713), (20, 18824), (25, 18899), (27, 18923), (43, 19316), (44, 19331), (46, 19343), (48, 19388), (53, 19466),

Gene: Fabian_33 Start: 18685, Stop: 19647, Start Num: 3
Candidate Starts for Fabian_33:
(Start: 3 @18685 has 22 MA's), (Start: 4 @18715 has 1 MA's), (8, 18778), (14, 18820), (25, 19006), (27, 19030), (30, 19126), (33, 19225), (42, 19411), (43, 19417), (46, 19447), (49, 19513), (53, 19570),

Gene: FlowerPower_36 Start: 18685, Stop: 19647, Start Num: 3
Candidate Starts for FlowerPower_36:
(Start: 3 @18685 has 22 MA's), (Start: 4 @18715 has 1 MA's), (8, 18778), (14, 18820), (25, 19006), (27, 19030), (30, 19126), (33, 19225), (42, 19411), (43, 19417), (46, 19447), (49, 19513), (53, 19570),

Gene: Fudan_76 Start: 31308, Stop: 32330, Start Num: 1
Candidate Starts for Fudan_76:
(Start: 1 @31308 has 8 MA's), (6, 31419), (7, 31431), (9, 31440), (15, 31494), (18, 31509), (22, 31623), (24, 31644), (26, 31668), (28, 31701), (29, 31719), (36, 31995), (37, 32025), (38, 32028), (39, 32046),

Gene: Garnacho_73 Start: 31052, Stop: 32074, Start Num: 1
Candidate Starts for Garnacho_73:
(Start: 1 @31052 has 8 MA's), (6, 31163), (7, 31175), (9, 31184), (15, 31238), (18, 31253), (22, 31367), (24, 31388), (26, 31412), (28, 31445), (31, 31619), (36, 31739), (37, 31769), (38, 31772), (39, 31790), (54, 32057),

Gene: Geostin_31 Start: 18685, Stop: 19647, Start Num: 3
Candidate Starts for Geostin_31:
(Start: 3 @18685 has 22 MA's), (Start: 4 @18715 has 1 MA's), (8, 18778), (14, 18820), (25, 19006), (27, 19030), (30, 19126), (33, 19225), (42, 19411), (43, 19417), (46, 19447), (49, 19513), (53, 19570),

Gene: GiJojo_71 Start: 31936, Stop: 32958, Start Num: 1
Candidate Starts for GiJojo_71:
(Start: 1 @31936 has 8 MA's), (6, 32047), (7, 32059), (15, 32122), (18, 32137), (24, 32272), (26, 32296), (28, 32329), (36, 32623), (37, 32653), (38, 32656), (39, 32674), (40, 32683), (47, 32800), (52, 32863),

Gene: Gremlin23_36 Start: 18685, Stop: 19647, Start Num: 3

Candidate Starts for Gremlin23_36:
(Start: 3 @18685 has 22 MA's), (Start: 4 @18715 has 1 MA's), (8, 18778), (14, 18820), (25, 19006), (27, 19030), (30, 19126), (33, 19225), (42, 19411), (43, 19417), (46, 19447), (49, 19513), (53, 19570),

Gene: HaugeAnator_37 Start: 18650, Stop: 19582, Start Num: 4
Candidate Starts for HaugeAnator_37:
(Start: 3 @18620 has 22 MA's), (Start: 4 @18650 has 1 MA's), (8, 18713), (10, 18722), (14, 18755), (20, 18866), (25, 18941), (27, 18965), (43, 19358), (44, 19373), (46, 19385), (48, 19430), (53, 19508),

Gene: Immanuel3_37 Start: 18624, Stop: 19586, Start Num: 3
Candidate Starts for Immanuel3_37:
(Start: 3 @18624 has 22 MA's), (Start: 4 @18654 has 1 MA's), (8, 18717), (10, 18726), (14, 18759), (20, 18870), (25, 18945), (27, 18969), (43, 19362), (44, 19377), (46, 19389), (48, 19434), (53, 19512),

Gene: JPandJE_38 Start: 19091, Stop: 20053, Start Num: 3
Candidate Starts for JPandJE_38:
(Start: 3 @19091 has 22 MA's), (Start: 4 @19121 has 1 MA's), (8, 19184), (10, 19193), (14, 19226), (20, 19337), (25, 19412), (27, 19436), (43, 19829), (44, 19844), (46, 19856), (48, 19901), (53, 19979),

Gene: Kumquat_36 Start: 18656, Stop: 19618, Start Num: 3
Candidate Starts for Kumquat_36:
(Start: 3 @18656 has 22 MA's), (Start: 4 @18686 has 1 MA's), (8, 18749), (14, 18791), (19, 18863), (25, 18977), (27, 19001), (30, 19097), (31, 19172), (33, 19196), (35, 19244), (46, 19418), (49, 19484), (53, 19541),

Gene: LuckySocke_78 Start: 31257, Stop: 32279, Start Num: 1
Candidate Starts for LuckySocke_78:
(Start: 1 @31257 has 8 MA's), (6, 31368), (7, 31380), (9, 31389), (15, 31443), (18, 31458), (22, 31572), (24, 31593), (26, 31617), (28, 31650), (29, 31668), (36, 31944), (37, 31974), (38, 31977), (39, 31995),

Gene: Manuel_35 Start: 18962, Stop: 19927, Start Num: 3
Candidate Starts for Manuel_35:
(Start: 3 @18962 has 22 MA's), (Start: 4 @18992 has 1 MA's), (8, 19055), (10, 19064), (12, 19085), (14, 19097), (16, 19112), (20, 19208), (21, 19214), (25, 19283), (27, 19307), (33, 19508), (48, 19772), (53, 19850),

Gene: Olicious_37 Start: 18620, Stop: 19582, Start Num: 3
Candidate Starts for Olicious_37:
(Start: 3 @18620 has 22 MA's), (Start: 4 @18650 has 1 MA's), (8, 18713), (10, 18722), (14, 18755), (20, 18866), (25, 18941), (27, 18965), (43, 19358), (44, 19373), (46, 19385), (48, 19430), (53, 19508),

Gene: Park1214_80 Start: 32101, Stop: 33123, Start Num: 1
Candidate Starts for Park1214_80:
(Start: 1 @32101 has 8 MA's), (6, 32212), (7, 32224), (9, 32233), (11, 32254), (15, 32287), (18, 32302), (24, 32437), (26, 32461), (28, 32494), (34, 32704), (36, 32788), (37, 32818), (38, 32821), (39, 32839),

Gene: Percastrophe_37 Start: 18554, Stop: 19516, Start Num: 3
Candidate Starts for Percastrophe_37:
(Start: 3 @18554 has 22 MA's), (Start: 4 @18584 has 1 MA's), (8, 18647), (10, 18656), (14, 18689), (20, 18800), (25, 18875), (27, 18899), (43, 19292), (44, 19307), (46, 19319), (48, 19364), (53, 19442),

Gene: RetrieverFever_36 Start: 18685, Stop: 19647, Start Num: 3
Candidate Starts for RetrieverFever_36:

(Start: 3 @18685 has 22 MA's), (Start: 4 @18715 has 1 MA's), (8, 18778), (14, 18820), (25, 19006), (27, 19030), (30, 19126), (33, 19225), (42, 19411), (43, 19417), (46, 19447), (49, 19513), (53, 19570),

Gene: Rideau_38 Start: 18833, Stop: 19795, Start Num: 3
Candidate Starts for Rideau_38:
(2, 18821), (Start: 3 @18833 has 22 MA's), (Start: 4 @18863 has 1 MA's), (8, 18926), (14, 18968), (20, 19079), (25, 19154), (27, 19178), (30, 19274), (33, 19373), (46, 19595), (48, 19640), (49, 19661),

Gene: Romero_37 Start: 18613, Stop: 19575, Start Num: 3
Candidate Starts for Romero_37:
(Start: 3 @18613 has 22 MA's), (Start: 4 @18643 has 1 MA's), (8, 18706), (10, 18715), (14, 18748), (20, 18859), (25, 18934), (27, 18958), (43, 19351), (44, 19366), (46, 19378), (48, 19423), (53, 19501),

Gene: RosePharie_36 Start: 18978, Stop: 19943, Start Num: 3
Candidate Starts for RosePharie_36:
(Start: 3 @18978 has 22 MA's), (Start: 4 @19008 has 1 MA's), (8, 19071), (10, 19080), (14, 19113), (20, 19224), (25, 19299), (27, 19323), (31, 19500), (33, 19524), (48, 19788), (50, 19824), (53, 19866),

Gene: Stella_37 Start: 18370, Stop: 19332, Start Num: 3
Candidate Starts for Stella_37:
(Start: 3 @18370 has 22 MA's), (Start: 4 @18400 has 1 MA's), (8, 18463), (10, 18472), (12, 18493), (14, 18505), (17, 18523), (25, 18691), (27, 18715), (30, 18811), (33, 18910), (42, 19096), (43, 19102), (45, 19126), (46, 19132), (49, 19198),

Gene: Talos_79 Start: 31059, Stop: 32081, Start Num: 1
Candidate Starts for Talos_79:
(Start: 1 @31059 has 8 MA's), (6, 31170), (7, 31182), (9, 31191), (15, 31245), (18, 31260), (22, 31374), (23, 31389), (26, 31419), (28, 31452), (29, 31470), (32, 31647), (36, 31746), (37, 31776), (38, 31779), (39, 31797), (51, 31968),

Gene: ToriToki_37 Start: 18613, Stop: 19575, Start Num: 3
Candidate Starts for ToriToki_37:
(Start: 3 @18613 has 22 MA's), (Start: 4 @18643 has 1 MA's), (8, 18706), (10, 18715), (14, 18748), (20, 18859), (25, 18934), (27, 18958), (43, 19351), (44, 19366), (46, 19378), (48, 19423), (53, 19501),

Gene: Treat_37 Start: 18557, Stop: 19519, Start Num: 3
Candidate Starts for Treat_37:
(Start: 3 @18557 has 22 MA's), (Start: 4 @18587 has 1 MA's), (8, 18650), (10, 18659), (14, 18692), (20, 18803), (25, 18878), (27, 18902), (43, 19295), (44, 19310), (46, 19322), (48, 19367), (53, 19445),

Gene: Vrykolakas_36 Start: 18684, Stop: 19646, Start Num: 3
Candidate Starts for Vrykolakas_36:
(Start: 3 @18684 has 22 MA's), (Start: 4 @18714 has 1 MA's), (8, 18777), (14, 18819), (25, 19005), (27, 19029), (30, 19125), (33, 19224), (42, 19410), (43, 19416), (46, 19446), (49, 19512), (53, 19569),

Gene: WRightOn_39 Start: 19042, Stop: 20004, Start Num: 3
Candidate Starts for WRightOn_39:
(Start: 3 @19042 has 22 MA's), (Start: 4 @19072 has 1 MA's), (8, 19135), (10, 19144), (12, 19165), (14, 19177), (20, 19288), (21, 19294), (25, 19363), (27, 19387), (33, 19588), (48, 19852), (53, 19930),

Gene: Zeigle_36 Start: 18656, Stop: 19618, Start Num: 3
Candidate Starts for Zeigle_36:

(Start: 3 @18656 has 22 MA's), (Start: 4 @18686 has 1 MA's), (8, 18749), (14, 18791), (19, 18863), (25, 18977), (27, 19001), (30, 19097), (31, 19172), (33, 19196), (35, 19244), (46, 19418), (49, 19484), (53, 19541),

Gene: ZooBear_37 Start: 18620, Stop: 19582, Start Num: 3
Candidate Starts for ZooBear_37:
(Start: 3 @18620 has 22 MA's), (Start: 4 @18650 has 1 MA's), (8, 18713), (10, 18722), (14, 18755), (20, 18866), (25, 18941), (27, 18965), (43, 19358), (44, 19373), (46, 19385), (48, 19430), (53, 19508),