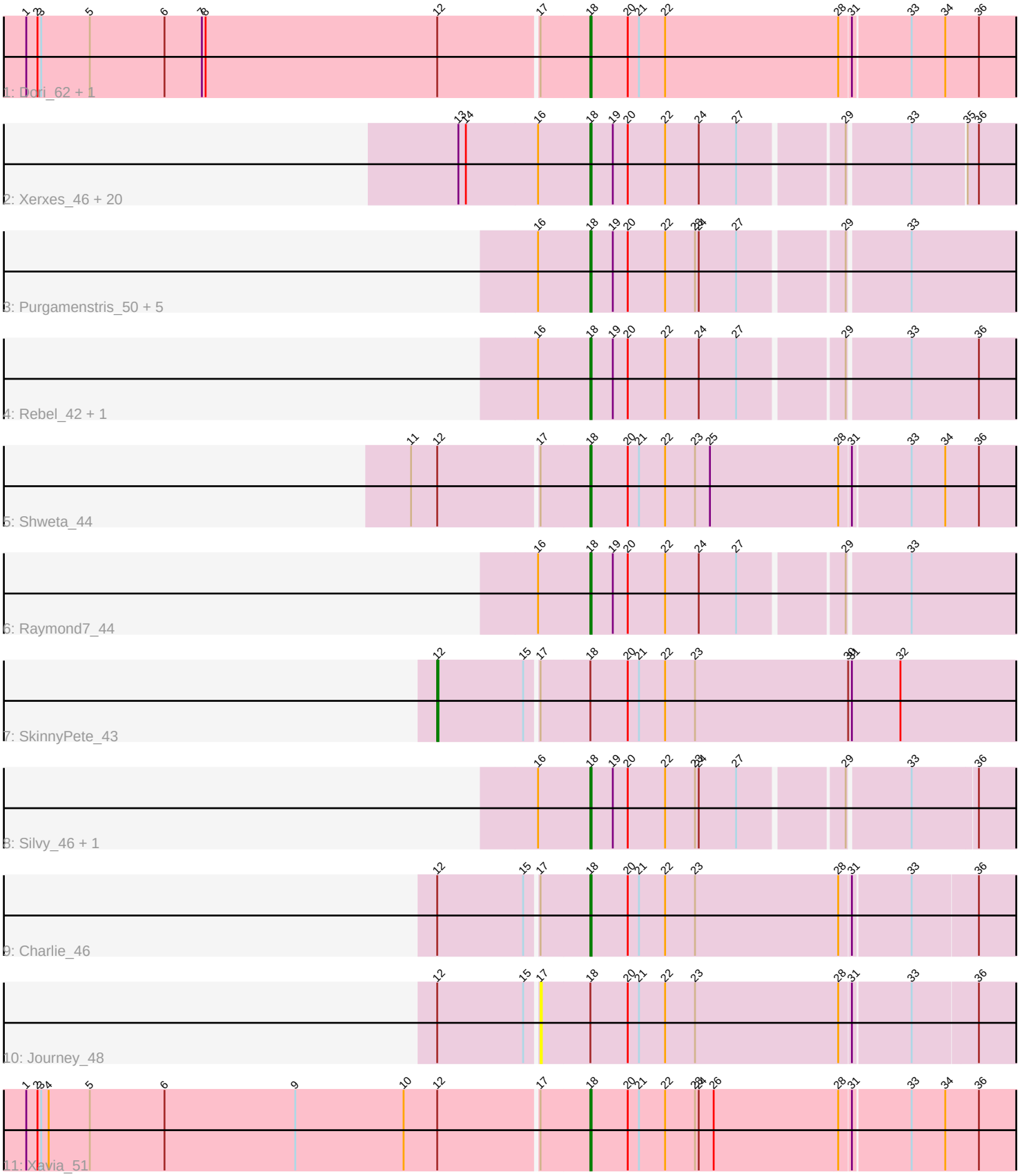
Pham 106454


1: Dori_62 + 1
2: Xerxes_46 + 20
3: Purgamenstris_50 + 5
4: Rebel_42 + 1
5: Shweta_44
6: Raymond7_44
7: SkinnyPete_43
8: Silvy_46 + 1
9: Charlie_46
10: Journey_48
11: Xavia_51

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 106454 Report

This analysis was run 04/28/24 on database version 559.

Pham number 106454 has 39 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Dori_62, Mask_62
• Track 2 : Xerxes_46, Magsby_46, Melville_50, Fulbright_45, Bosection6_46, Scitech_43, Schnauzer_47, Parmesanjohn_46, Pipsqueaks_46, Smurph_46, SpongeBob_44, Snekmaggedon_44, Panchino_43, Tapioca_48, Silvafighter_47, Chewbacca_48, Phloss_44, Jamie19_44, Duplicity_46, Carcharodon_46, Gex_46
• Track 3 : Purgamenstris_50, ShrimpFriedEgg_50, PhancyPhin_50, Nenae_50, BabeRuth_51, Redi_50
• Track 4 : Rebel_42, Phrann_47
• Track 5 : Shweta_44
• Track 6 : Raymond7_44
• Track 7 : SkinnyPete_43
• Track 8 : Silvy_46, Aggie_44
• Track 9 : Charlie_46
• Track 10 : Journey_48
• Track 11 : Xavia_51

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

The start number called the most often in the published annotations is 18, it was called in 33 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_44, BabeRuth_51, Bosection6_46, Carcharodon_46, Charlie_46, Chewbacca_48, Dori_62, Duplicity_46, Fulbright_45, Gex_46, Jamie19_44, Magsby_46, Mask_62, Melville_50, Nenae_50, Panchino_43, Parmesanjohn_46, PhancyPhin_50, Phloss_44, Phrann_47, Pipsqueaks_46, Purgamenstris_50, Raymond7_44, Rebel_42, Redi_50, Schnauzer_47, Scitech_43, ShrimpFriedEgg_50, Shweta_44, Silvafighter_47, Silvy_46, Smurph_46, Snekmaggedon_44, SpongeBob_44, Tapioca_48, Xavia_51, Xerxes_46,

Genes that have the "Most Annotated" start but do not call it:
• Journey_48, SkinnyPete_43,

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

•

Summary by start number:

Start 12:
• Found in 7 of 39 (17.9%) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 14.3% of time when present
• Phage (with cluster) where this start called: SkinnyPete_43 (N),

Start 17:
• Found in 7 of 39 (17.9%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Journey_48 (N),

Start 18:
• Found in 39 of 39 (100.0%) of genes in pham
• Manual Annotations of this start: 33 of 34
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Aggie_44 (N), BabeRuth_51 (N), Bosection6_46 (N), Carcharodon_46 (N), Charlie_46 (N), Chewbacca_48 (N), Dori_62 (AD), Duplicity_46 (N), Fulbright_45 (N), Gex_46 (N), Jamie19_44 (N), Magsby_46 (N), Mask_62 (AD), Melville_50 (N), Nenae_50 (N), Panchino_43 (N), Parmesanjohn_46 (N), PhancyPhin_50 (N), Phloss_44 (N), Phrann_47 (N), Pipsqueaks_46 (N), Purgamenstris_50 (N), Raymond7_44 (N), Rebel_42 (N), Redi_50 (N), Schnauzer_47 (N), Scitech_43 (N), ShrimpFriedEgg_50 (N), Shweta_44 (N), Silvafighter_47 (N), Silvy_46 (N), Smurph_46 (N), Snekmaggedon_44 (N), SpongeBob_44 (N), Tapioca_48 (N), Xavia_51 (P3), Xerxes_46 (N),

Summary by clusters:

There are 3 clusters represented in this pham: P3, AD, N,

Info for manual annotations of cluster AD:
•Start number 18 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster N:
•Start number 12 was manually annotated 1 time for cluster N.
•Start number 18 was manually annotated 30 times for cluster N.

Info for manual annotations of cluster P3:
•Start number 18 was manually annotated 1 time for cluster P3.

Gene Information:

Gene: Aggie_44 Start: 30859, Stop: 31203, Start Num: 18
Candidate Starts for Aggie_44:
(16, 30817), (Start: 18 @30859 has 33 MA's), (19, 30877), (20, 30889), (22, 30919), (23, 30943), (24, 30946), (27, 30976), (29, 31054), (33, 31102), (36, 31153),

Gene: BabeRuth_51 Start: 33004, Stop: 33351, Start Num: 18
Candidate Starts for BabeRuth_51:
(16, 32962), (Start: 18 @33004 has 33 MA's), (19, 33022), (20, 33034), (22, 33064), (23, 33088), (24, 33091), (27, 33121), (29, 33199), (33, 33247),

Gene: Bosection6_46 Start: 30752, Stop: 31096, Start Num: 18
Candidate Starts for Bosection6_46:
(13, 30647), (14, 30653), (16, 30710), (Start: 18 @30752 has 33 MA's), (19, 30770), (20, 30782), (22, 30812), (24, 30839), (27, 30869), (29, 30947), (33, 30995), (35, 31037), (36, 31046),

Gene: Carcharodon_46 Start: 32101, Stop: 32445, Start Num: 18
Candidate Starts for Carcharodon_46:
(13, 31996), (14, 32002), (16, 32059), (Start: 18 @32101 has 33 MA's), (19, 32119), (20, 32131), (22, 32161), (24, 32188), (27, 32218), (29, 32296), (33, 32344), (35, 32386), (36, 32395),

Gene: Charlie_46 Start: 30644, Stop: 30997, Start Num: 18
Candidate Starts for Charlie_46:
(Start: 12 @30527 has 1 MA's), (15, 30596), (17, 30605), (Start: 18 @30644 has 33 MA's), (20, 30674), (21, 30683), (22, 30704), (23, 30728), (28, 30842), (31, 30851), (33, 30896), (36, 30947),

Gene: Chewbacca_48 Start: 32101, Stop: 32445, Start Num: 18
Candidate Starts for Chewbacca_48:
(13, 31996), (14, 32002), (16, 32059), (Start: 18 @32101 has 33 MA's), (19, 32119), (20, 32131), (22, 32161), (24, 32188), (27, 32218), (29, 32296), (33, 32344), (35, 32386), (36, 32395),

Gene: Dori_62 Start: 48770, Stop: 49126, Start Num: 18
Candidate Starts for Dori_62:
(1, 48323), (2, 48332), (3, 48335), (5, 48374), (6, 48434), (7, 48464), (8, 48467), (Start: 12 @48653 has 1 MA's), (17, 48731), (Start: 18 @48770 has 33 MA's), (20, 48800), (21, 48809), (22, 48830), (28, 48968), (31, 48977), (33, 49022), (34, 49049), (36, 49076),

Gene: Duplicity_46 Start: 32110, Stop: 32454, Start Num: 18
Candidate Starts for Duplicity_46:
(13, 32005), (14, 32011), (16, 32068), (Start: 18 @32110 has 33 MA's), (19, 32128), (20, 32140), (22, 32170), (24, 32197), (27, 32227), (29, 32305), (33, 32353), (35, 32395), (36, 32404),

Gene: Fulbright_45 Start: 31190, Stop: 31534, Start Num: 18
Candidate Starts for Fulbright_45:
(13, 31085), (14, 31091), (16, 31148), (Start: 18 @31190 has 33 MA's), (19, 31208), (20, 31220), (22, 31250), (24, 31277), (27, 31307), (29, 31385), (33, 31433), (35, 31475), (36, 31484),

Gene: Gex_46 Start: 32117, Stop: 32461, Start Num: 18
Candidate Starts for Gex_46:
(13, 32012), (14, 32018), (16, 32075), (Start: 18 @32117 has 33 MA's), (19, 32135), (20, 32147), (22, 32177), (24, 32204), (27, 32234), (29, 32312), (33, 32360), (35, 32402), (36, 32411),

Gene: Jamie19_44 Start: 31298, Stop: 31642, Start Num: 18
Candidate Starts for Jamie19_44:
(13, 31193), (14, 31199), (16, 31256), (Start: 18 @31298 has 33 MA's), (19, 31316), (20, 31328), (22, 31358), (24, 31385), (27, 31415), (29, 31493), (33, 31541), (35, 31583), (36, 31592),

Gene: Journey_48 Start: 30605, Stop: 30997, Start Num: 17
Candidate Starts for Journey_48:

(Start: 12 @30527 has 1 MA's), (15, 30596), (17, 30605), (Start: 18 @30644 has 33 MA's), (20, 30674), (21, 30683), (22, 30704), (23, 30728), (28, 30842), (31, 30851), (33, 30896), (36, 30947),

Gene: Magsby_46 Start: 32118, Stop: 32462, Start Num: 18
Candidate Starts for Magsby_46:
(13, 32013), (14, 32019), (16, 32076), (Start: 18 @32118 has 33 MA's), (19, 32136), (20, 32148), (22, 32178), (24, 32205), (27, 32235), (29, 32313), (33, 32361), (35, 32403), (36, 32412),

Gene: Mask_62 Start: 49513, Stop: 49869, Start Num: 18
Candidate Starts for Mask_62:
(1, 49066), (2, 49075), (3, 49078), (5, 49117), (6, 49177), (7, 49207), (8, 49210), (Start: 12 @49396 has 1 MA's), (17, 49474), (Start: 18 @49513 has 33 MA's), (20, 49543), (21, 49552), (22, 49573), (28, 49711), (31, 49720), (33, 49765), (34, 49792), (36, 49819),

Gene: Melville_50 Start: 32102, Stop: 32446, Start Num: 18
Candidate Starts for Melville_50:
(13, 31997), (14, 32003), (16, 32060), (Start: 18 @32102 has 33 MA's), (19, 32120), (20, 32132), (22, 32162), (24, 32189), (27, 32219), (29, 32297), (33, 32345), (35, 32387), (36, 32396),

Gene: Nenae_50 Start: 33006, Stop: 33353, Start Num: 18
Candidate Starts for Nenae_50:
(16, 32964), (Start: 18 @33006 has 33 MA's), (19, 33024), (20, 33036), (22, 33066), (23, 33090), (24, 33093), (27, 33123), (29, 33201), (33, 33249),

Gene: Panchino_43 Start: 32644, Stop: 32988, Start Num: 18
Candidate Starts for Panchino_43:
(13, 32539), (14, 32545), (16, 32602), (Start: 18 @32644 has 33 MA's), (19, 32662), (20, 32674), (22, 32704), (24, 32731), (27, 32761), (29, 32839), (33, 32887), (35, 32929), (36, 32938),

Gene: Parmesanjohn_46 Start: 32121, Stop: 32465, Start Num: 18
Candidate Starts for Parmesanjohn_46:
(13, 32016), (14, 32022), (16, 32079), (Start: 18 @32121 has 33 MA's), (19, 32139), (20, 32151), (22, 32181), (24, 32208), (27, 32238), (29, 32316), (33, 32364), (35, 32406), (36, 32415),

Gene: PhancyPhin_50 Start: 33000, Stop: 33347, Start Num: 18
Candidate Starts for PhancyPhin_50:
(16, 32958), (Start: 18 @33000 has 33 MA's), (19, 33018), (20, 33030), (22, 33060), (23, 33084), (24, 33087), (27, 33117), (29, 33195), (33, 33243),

Gene: Phloss_44 Start: 31528, Stop: 31872, Start Num: 18
Candidate Starts for Phloss_44:
(13, 31423), (14, 31429), (16, 31486), (Start: 18 @31528 has 33 MA's), (19, 31546), (20, 31558), (22, 31588), (24, 31615), (27, 31645), (29, 31723), (33, 31771), (35, 31813), (36, 31822),

Gene: Phrann_47 Start: 33283, Stop: 33630, Start Num: 18
Candidate Starts for Phrann_47:
(16, 33241), (Start: 18 @33283 has 33 MA's), (19, 33301), (20, 33313), (22, 33343), (24, 33370), (27, 33400), (29, 33478), (33, 33526), (36, 33580),

Gene: Pipsqueaks_46 Start: 32098, Stop: 32442, Start Num: 18
Candidate Starts for Pipsqueaks_46:
(13, 31993), (14, 31999), (16, 32056), (Start: 18 @32098 has 33 MA's), (19, 32116), (20, 32128), (22, 32158), (24, 32185), (27, 32215), (29, 32293), (33, 32341), (35, 32383), (36, 32392),

Gene: Purgamenstris_50 Start: 33004, Stop: 33351, Start Num: 18
Candidate Starts for Purgamenstris_50:
(16, 32962), (Start: 18 @33004 has 33 MA's), (19, 33022), (20, 33034), (22, 33064), (23, 33088), (24, 33091), (27, 33121), (29, 33199), (33, 33247),

Gene: Raymond7_44 Start: 32792, Stop: 33139, Start Num: 18
Candidate Starts for Raymond7_44:
(16, 32750), (Start: 18 @32792 has 33 MA's), (19, 32810), (20, 32822), (22, 32852), (24, 32879), (27, 32909), (29, 32987), (33, 33035),

Gene: Rebel_42 Start: 29134, Stop: 29481, Start Num: 18
Candidate Starts for Rebel_42:
(16, 29092), (Start: 18 @29134 has 33 MA's), (19, 29152), (20, 29164), (22, 29194), (24, 29221), (27, 29251), (29, 29329), (33, 29377), (36, 29431),

Gene: Redi_50 Start: 33003, Stop: 33350, Start Num: 18
Candidate Starts for Redi_50:
(16, 32961), (Start: 18 @33003 has 33 MA's), (19, 33021), (20, 33033), (22, 33063), (23, 33087), (24, 33090), (27, 33120), (29, 33198), (33, 33246),

Gene: Schnauzer_47 Start: 32121, Stop: 32465, Start Num: 18
Candidate Starts for Schnauzer_47:
(13, 32016), (14, 32022), (16, 32079), (Start: 18 @32121 has 33 MA's), (19, 32139), (20, 32151), (22, 32181), (24, 32208), (27, 32238), (29, 32316), (33, 32364), (35, 32406), (36, 32415),

Gene: Scitech_43 Start: 30137, Stop: 30481, Start Num: 18
Candidate Starts for Scitech_43:
(13, 30032), (14, 30038), (16, 30095), (Start: 18 @30137 has 33 MA's), (19, 30155), (20, 30167), (22, 30197), (24, 30224), (27, 30254), (29, 30332), (33, 30380), (35, 30422), (36, 30431),

Gene: ShrimpFriedEgg_50 Start: 33003, Stop: 33350, Start Num: 18
Candidate Starts for ShrimpFriedEgg_50:
(16, 32961), (Start: 18 @33003 has 33 MA's), (19, 33021), (20, 33033), (22, 33063), (23, 33087), (24, 33090), (27, 33120), (29, 33198), (33, 33246),

Gene: Shweta_44 Start: 31053, Stop: 31409, Start Num: 18
Candidate Starts for Shweta_44:
(11, 30915), (Start: 12 @30936 has 1 MA's), (17, 31014), (Start: 18 @31053 has 33 MA's), (20, 31083), (21, 31092), (22, 31113), (23, 31137), (25, 31149), (28, 31251), (31, 31260), (33, 31305), (34, 31332), (36, 31359),

Gene: Silvafighter_47 Start: 32094, Stop: 32438, Start Num: 18
Candidate Starts for Silvafighter_47:
(13, 31989), (14, 31995), (16, 32052), (Start: 18 @32094 has 33 MA's), (19, 32112), (20, 32124), (22, 32154), (24, 32181), (27, 32211), (29, 32289), (33, 32337), (35, 32379), (36, 32388),

Gene: Silvy_46 Start: 30859, Stop: 31203, Start Num: 18
Candidate Starts for Silvy_46:
(16, 30817), (Start: 18 @30859 has 33 MA's), (19, 30877), (20, 30889), (22, 30919), (23, 30943), (24, 30946), (27, 30976), (29, 31054), (33, 31102), (36, 31153),

Gene: SkinnyPete_43 Start: 30189, Stop: 30668, Start Num: 12

Candidate Starts for SkinnyPete_43:
(Start: 12 @30189 has 1 MA's), (15, 30258), (17, 30267), (Start: 18 @30306 has 33 MA's), (20, 30336), (21, 30345), (22, 30366), (23, 30390), (30, 30513), (31, 30516), (32, 30555),

Gene: Smurph_46 Start: 32121, Stop: 32465, Start Num: 18
Candidate Starts for Smurph_46:
(13, 32016), (14, 32022), (16, 32079), (Start: 18 @32121 has 33 MA's), (19, 32139), (20, 32151), (22, 32181), (24, 32208), (27, 32238), (29, 32316), (33, 32364), (35, 32406), (36, 32415),

Gene: Snekmaggedon_44 Start: 31298, Stop: 31642, Start Num: 18
Candidate Starts for Snekmaggedon_44:
(13, 31193), (14, 31199), (16, 31256), (Start: 18 @31298 has 33 MA's), (19, 31316), (20, 31328), (22, 31358), (24, 31385), (27, 31415), (29, 31493), (33, 31541), (35, 31583), (36, 31592),

Gene: SpongeBob_44 Start: 31298, Stop: 31642, Start Num: 18
Candidate Starts for SpongeBob_44:
(13, 31193), (14, 31199), (16, 31256), (Start: 18 @31298 has 33 MA's), (19, 31316), (20, 31328), (22, 31358), (24, 31385), (27, 31415), (29, 31493), (33, 31541), (35, 31583), (36, 31592),

Gene: Tapioca_48 Start: 32087, Stop: 32431, Start Num: 18
Candidate Starts for Tapioca_48:
(13, 31982), (14, 31988), (16, 32045), (Start: 18 @32087 has 33 MA's), (19, 32105), (20, 32117), (22, 32147), (24, 32174), (27, 32204), (29, 32282), (33, 32330), (35, 32372), (36, 32381),

Gene: Xavia_51 Start: 38040, Stop: 38396, Start Num: 18
Candidate Starts for Xavia_51:
(1, 37593), (2, 37602), (3, 37605), (4, 37611), (5, 37644), (6, 37704), (9, 37809), (10, 37896), (Start: 12 @37923 has 1 MA's), (17, 38001), (Start: 18 @38040 has 33 MA's), (20, 38070), (21, 38079), (22, 38100), (23, 38124), (24, 38127), (26, 38139), (28, 38238), (31, 38247), (33, 38292), (34, 38319), (36, 38346),

Gene: Xerxes_46 Start: 32118, Stop: 32462, Start Num: 18
Candidate Starts for Xerxes_46:
(13, 32013), (14, 32019), (16, 32076), (Start: 18 @32118 has 33 MA's), (19, 32136), (20, 32148), (22, 32178), (24, 32205), (27, 32235), (29, 32313), (33, 32361), (35, 32403), (36, 32412),