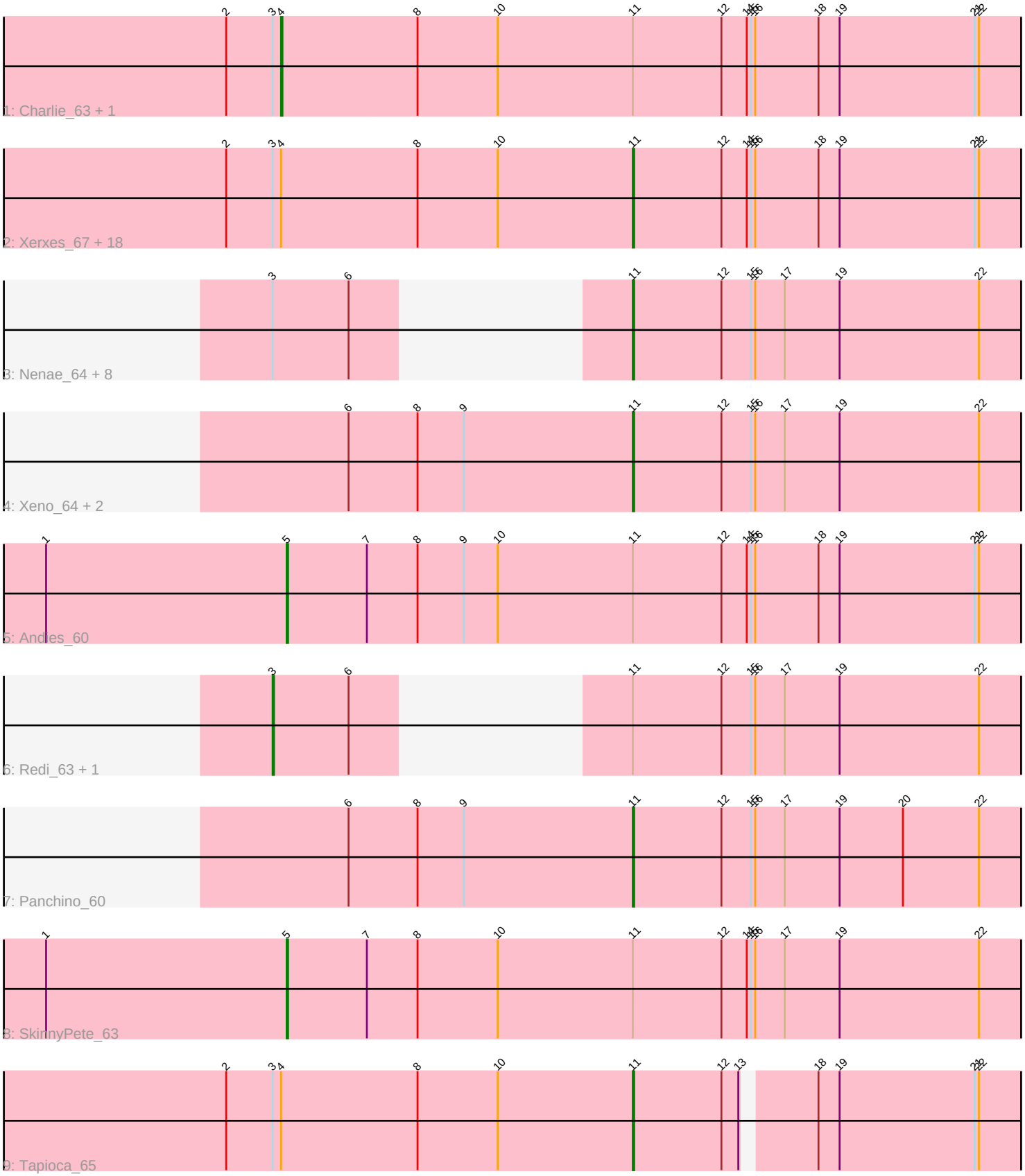
Pham 106451


1: Charlie_63 + 1
2: Xerxes_67 + 18
3: Nenae_64 + 8
4: Xeno_64 + 2
5: Andies_60
6: Redi_63 + 1
7: Panchino_60
8: SkinnyPete_63
9: Tapioca_65

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 106451 Report

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

Pham number 106451 has 39 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Charlie_63, Carcharodon_66
• Track 2 : Xerxes_67, Magsby_66, Bosection6_66, Chewbacca_70, Schnauzer_68, Scitech_62, Pipsqueaks_68, Smurph_67, Parmesanjohn_67, Philonius_67, Fulbright_65, Melville_72, Phloss_65, Silvafighter_69, Duplicity_65, Aggie_63, Gex_68, Journey_62, Silvy_68
• Track 3 : Nenae_64, Jamie19_59, BabeRuth_64, Purgamenstris_64, ShrimpFriedEgg_64, Raymond7_57, Phrann_63, Snekmaggedon_59, SpongeBob_59
• Track 4 : Xeno_64, Shweta_62, PhancyPhin_64
• Track 5 : Andies_60
• Track 6 : Redi_63, MichelleMyBell_64
• Track 7 : Panchino_60
• Track 8 : SkinnyPete_63
• Track 9 : Tapioca_65

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 28 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_63, BabeRuth_64, Bosection6_66, Chewbacca_70, Duplicity_65, Fulbright_65, Gex_68, Jamie19_59, Journey_62, Magsby_66, Melville_72, Nenae_64, Panchino_60, Parmesanjohn_67, PhancyPhin_64, Philonius_67, Phloss_65, Phrann_63, Pipsqueaks_68, Purgamenstris_64, Raymond7_57, Schnauzer_68, Scitech_62, ShrimpFriedEgg_64, Shweta_62, Silvafighter_69, Silvy_68, Smurph_67, Snekmaggedon_59, SpongeBob_59, Tapioca_65, Xeno_64, Xerxes_67,

Genes that have the "Most Annotated" start but do not call it:
• Andies_60, Carcharodon_66, Charlie_63, MichelleMyBell_64, Redi_63, SkinnyPete_63,

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

•

Summary by start number:

Start 3:
• Found in 33 of 39 (84.6%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 6.1% of time when present
• Phage (with cluster) where this start called: MichelleMyBell_64 (N), Redi_63 (N),

Start 4:
• Found in 22 of 39 (56.4%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Carcharodon_66 (N), Charlie_63 (N),

Start 5:
• Found in 2 of 39 (5.1%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Andies_60 (N), SkinnyPete_63 (N),

Start 11:
• Found in 39 of 39 (100.0%) of genes in pham
• Manual Annotations of this start: 28 of 34
• Called 84.6% of time when present
• Phage (with cluster) where this start called: Aggie_63 (N), BabeRuth_64 (N), Bosection6_66 (N), Chewbacca_70 (N), Duplicity_65 (N), Fulbright_65 (N), Gex_68 (N), Jamie19_59 (N), Journey_62 (N), Magsby_66 (N), Melville_72 (N), Nenae_64 (N), Panchino_60 (N), Parmesanjohn_67 (N), PhancyPhin_64 (N), Philonius_67 (N), Phloss_65 (N), Phrann_63 (N), Pipsqueaks_68 (N), Purgamenstris_64 (N), Raymond7_57 (N), Schnauzer_68 (N), Scitech_62 (N), ShrimpFriedEgg_64 (N), Shweta_62 (N), Silvafighter_69 (N), Silvy_68 (N), Smurph_67 (N), Snekmaggedon_59 (N), SpongeBob_59 (N), Tapioca_65 (N), Xeno_64 (N), Xerxes_67 (N),

Summary by clusters:

There is one cluster represented in this pham: N

Info for manual annotations of cluster N:
•Start number 3 was manually annotated 2 times for cluster N.
•Start number 4 was manually annotated 2 times for cluster N.
•Start number 5 was manually annotated 2 times for cluster N.
•Start number 11 was manually annotated 28 times for cluster N.

Gene Information:

Gene: Aggie_63 Start: 41891, Stop: 42223, Start Num: 11
Candidate Starts for Aggie_63:

(2, 41603), (Start: 3 @41636 has 2 MA's), (Start: 4 @41642 has 2 MA's), (8, 41738), (10, 41795), (Start: 11 @41891 has 28 MA's), (12, 41954), (14, 41972), (15, 41975), (16, 41978), (18, 42023), (19, 42038), (21, 42134), (22, 42137),

Gene: Andies_60 Start: 41091, Stop: 41669, Start Num: 5
Candidate Starts for Andies_60:
(1, 40920), (Start: 5 @41091 has 2 MA's), (7, 41148), (8, 41184), (9, 41217), (10, 41241), (Start: 11 @41337 has 28 MA's), (12, 41400), (14, 41418), (15, 41421), (16, 41424), (18, 41469), (19, 41484), (21, 41580), (22, 41583),

Gene: BabeRuth_64 Start: 39855, Stop: 40187, Start Num: 11
Candidate Starts for BabeRuth_64:
(Start: 3 @39732 has 2 MA's), (6, 39786), (Start: 11 @39855 has 28 MA's), (12, 39918), (15, 39939), (16, 39942), (17, 39963), (19, 40002), (22, 40101),

Gene: Bosection6_66 Start: 40940, Stop: 41272, Start Num: 11
Candidate Starts for Bosection6_66:
(2, 40652), (Start: 3 @40685 has 2 MA's), (Start: 4 @40691 has 2 MA's), (8, 40787), (10, 40844), (Start: 11 @40940 has 28 MA's), (12, 41003), (14, 41021), (15, 41024), (16, 41027), (18, 41072), (19, 41087), (21, 41183), (22, 41186),

Gene: Carcharodon_66 Start: 40989, Stop: 41570, Start Num: 4
Candidate Starts for Carcharodon_66:
(2, 40950), (Start: 3 @40983 has 2 MA's), (Start: 4 @40989 has 2 MA's), (8, 41085), (10, 41142), (Start: 11 @41238 has 28 MA's), (12, 41301), (14, 41319), (15, 41322), (16, 41325), (18, 41370), (19, 41385), (21, 41481), (22, 41484),

Gene: Charlie_63 Start: 40315, Stop: 40896, Start Num: 4
Candidate Starts for Charlie_63:
(2, 40276), (Start: 3 @40309 has 2 MA's), (Start: 4 @40315 has 2 MA's), (8, 40411), (10, 40468), (Start: 11 @40564 has 28 MA's), (12, 40627), (14, 40645), (15, 40648), (16, 40651), (18, 40696), (19, 40711), (21, 40807), (22, 40810),

Gene: Chewbacca_70 Start: 41133, Stop: 41465, Start Num: 11
Candidate Starts for Chewbacca_70:
(2, 40845), (Start: 3 @40878 has 2 MA's), (Start: 4 @40884 has 2 MA's), (8, 40980), (10, 41037), (Start: 11 @41133 has 28 MA's), (12, 41196), (14, 41214), (15, 41217), (16, 41220), (18, 41265), (19, 41280), (21, 41376), (22, 41379),

Gene: Duplicity_65 Start: 40495, Stop: 40827, Start Num: 11
Candidate Starts for Duplicity_65:
(2, 40207), (Start: 3 @40240 has 2 MA's), (Start: 4 @40246 has 2 MA's), (8, 40342), (10, 40399), (Start: 11 @40495 has 28 MA's), (12, 40558), (14, 40576), (15, 40579), (16, 40582), (18, 40627), (19, 40642), (21, 40738), (22, 40741),

Gene: Fulbright_65 Start: 39932, Stop: 40264, Start Num: 11
Candidate Starts for Fulbright_65:
(2, 39644), (Start: 3 @39677 has 2 MA's), (Start: 4 @39683 has 2 MA's), (8, 39779), (10, 39836), (Start: 11 @39932 has 28 MA's), (12, 39995), (14, 40013), (15, 40016), (16, 40019), (18, 40064), (19, 40079), (21, 40175), (22, 40178),

Gene: Gex_68 Start: 41254, Stop: 41586, Start Num: 11
Candidate Starts for Gex_68:

(2, 40966), (Start: 3 @40999 has 2 MA's), (Start: 4 @41005 has 2 MA's), (8, 41101), (10, 41158), (Start: 11 @41254 has 28 MA's), (12, 41317), (14, 41335), (15, 41338), (16, 41341), (18, 41386), (19, 41401), (21, 41497), (22, 41500),

Gene: Jamie19_59 Start: 38535, Stop: 38867, Start Num: 11
Candidate Starts for Jamie19_59:
(Start: 3 @38412 has 2 MA's), (6, 38466), (Start: 11 @38535 has 28 MA's), (12, 38598), (15, 38619), (16, 38622), (17, 38643), (19, 38682), (22, 38781),

Gene: Journey_62 Start: 39523, Stop: 39855, Start Num: 11
Candidate Starts for Journey_62:
(2, 39235), (Start: 3 @39268 has 2 MA's), (Start: 4 @39274 has 2 MA's), (8, 39370), (10, 39427), (Start: 11 @39523 has 28 MA's), (12, 39586), (14, 39604), (15, 39607), (16, 39610), (18, 39655), (19, 39670), (21, 39766), (22, 39769),

Gene: Magsby_66 Start: 41200, Stop: 41532, Start Num: 11
Candidate Starts for Magsby_66:
(2, 40912), (Start: 3 @40945 has 2 MA's), (Start: 4 @40951 has 2 MA's), (8, 41047), (10, 41104), (Start: 11 @41200 has 28 MA's), (12, 41263), (14, 41281), (15, 41284), (16, 41287), (18, 41332), (19, 41347), (21, 41443), (22, 41446),

Gene: Melville_72 Start: 40809, Stop: 41141, Start Num: 11
Candidate Starts for Melville_72:
(2, 40521), (Start: 3 @40554 has 2 MA's), (Start: 4 @40560 has 2 MA's), (8, 40656), (10, 40713), (Start: 11 @40809 has 28 MA's), (12, 40872), (14, 40890), (15, 40893), (16, 40896), (18, 40941), (19, 40956), (21, 41052), (22, 41055),

Gene: MichelleMyBell_64 Start: 39375, Stop: 39830, Start Num: 3
Candidate Starts for MichelleMyBell_64:
(Start: 3 @39375 has 2 MA's), (6, 39429), (Start: 11 @39498 has 28 MA's), (12, 39561), (15, 39582), (16, 39585), (17, 39606), (19, 39645), (22, 39744),

Gene: Nenae_64 Start: 39857, Stop: 40189, Start Num: 11
Candidate Starts for Nenae_64:
(Start: 3 @39734 has 2 MA's), (6, 39788), (Start: 11 @39857 has 28 MA's), (12, 39920), (15, 39941), (16, 39944), (17, 39965), (19, 40004), (22, 40103),

Gene: Panchino_60 Start: 40763, Stop: 41095, Start Num: 11
Candidate Starts for Panchino_60:
(6, 40562), (8, 40610), (9, 40643), (Start: 11 @40763 has 28 MA's), (12, 40826), (15, 40847), (16, 40850), (17, 40871), (19, 40910), (20, 40955), (22, 41009),

Gene: Parmesanjohn_67 Start: 41258, Stop: 41590, Start Num: 11
Candidate Starts for Parmesanjohn_67:
(2, 40970), (Start: 3 @41003 has 2 MA's), (Start: 4 @41009 has 2 MA's), (8, 41105), (10, 41162), (Start: 11 @41258 has 28 MA's), (12, 41321), (14, 41339), (15, 41342), (16, 41345), (18, 41390), (19, 41405), (21, 41501), (22, 41504),

Gene: PhancyPhin_64 Start: 39983, Stop: 40315, Start Num: 11
Candidate Starts for PhancyPhin_64:
(6, 39782), (8, 39830), (9, 39863), (Start: 11 @39983 has 28 MA's), (12, 40046), (15, 40067), (16, 40070), (17, 40091), (19, 40130), (22, 40229),

Gene: Philonius_67 Start: 41423, Stop: 41755, Start Num: 11
Candidate Starts for Philonius_67:
(2, 41135), (Start: 3 @41168 has 2 MA's), (Start: 4 @41174 has 2 MA's), (8, 41270), (10, 41327), (Start: 11 @41423 has 28 MA's), (12, 41486), (14, 41504), (15, 41507), (16, 41510), (18, 41555), (19, 41570), (21, 41666), (22, 41669),

Gene: Phloss_65 Start: 40665, Stop: 40997, Start Num: 11
Candidate Starts for Phloss_65:
(2, 40377), (Start: 3 @40410 has 2 MA's), (Start: 4 @40416 has 2 MA's), (8, 40512), (10, 40569), (Start: 11 @40665 has 28 MA's), (12, 40728), (14, 40746), (15, 40749), (16, 40752), (18, 40797), (19, 40812), (21, 40908), (22, 40911),

Gene: Phrann_63 Start: 42400, Stop: 42732, Start Num: 11
Candidate Starts for Phrann_63:
(Start: 3 @42277 has 2 MA's), (6, 42331), (Start: 11 @42400 has 28 MA's), (12, 42463), (15, 42484), (16, 42487), (17, 42508), (19, 42547), (22, 42646),

Gene: Pipsqueaks_68 Start: 41236, Stop: 41568, Start Num: 11
Candidate Starts for Pipsqueaks_68:
(2, 40948), (Start: 3 @40981 has 2 MA's), (Start: 4 @40987 has 2 MA's), (8, 41083), (10, 41140), (Start: 11 @41236 has 28 MA's), (12, 41299), (14, 41317), (15, 41320), (16, 41323), (18, 41368), (19, 41383), (21, 41479), (22, 41482),

Gene: Purgamenstris_64 Start: 39855, Stop: 40187, Start Num: 11
Candidate Starts for Purgamenstris_64:
(Start: 3 @39732 has 2 MA's), (6, 39786), (Start: 11 @39855 has 28 MA's), (12, 39918), (15, 39939), (16, 39942), (17, 39963), (19, 40002), (22, 40101),

Gene: Raymond7_57 Start: 39643, Stop: 39975, Start Num: 11
Candidate Starts for Raymond7_57:
(Start: 3 @39520 has 2 MA's), (6, 39574), (Start: 11 @39643 has 28 MA's), (12, 39706), (15, 39727), (16, 39730), (17, 39751), (19, 39790), (22, 39889),

Gene: Redi_63 Start: 39731, Stop: 40186, Start Num: 3
Candidate Starts for Redi_63:
(Start: 3 @39731 has 2 MA's), (6, 39785), (Start: 11 @39854 has 28 MA's), (12, 39917), (15, 39938), (16, 39941), (17, 39962), (19, 40001), (22, 40100),

Gene: Schnauzer_68 Start: 41258, Stop: 41590, Start Num: 11
Candidate Starts for Schnauzer_68:
(2, 40970), (Start: 3 @41003 has 2 MA's), (Start: 4 @41009 has 2 MA's), (8, 41105), (10, 41162), (Start: 11 @41258 has 28 MA's), (12, 41321), (14, 41339), (15, 41342), (16, 41345), (18, 41390), (19, 41405), (21, 41501), (22, 41504),

Gene: Scitech_62 Start: 40661, Stop: 40993, Start Num: 11
Candidate Starts for Scitech_62:
(2, 40373), (Start: 3 @40406 has 2 MA's), (Start: 4 @40412 has 2 MA's), (8, 40508), (10, 40565), (Start: 11 @40661 has 28 MA's), (12, 40724), (14, 40742), (15, 40745), (16, 40748), (18, 40793), (19, 40808), (21, 40904), (22, 40907),

Gene: ShrimpFriedEgg_64 Start: 39854, Stop: 40186, Start Num: 11
Candidate Starts for ShrimpFriedEgg_64:

(Start: 3 @39731 has 2 MA's), (6, 39785), (Start: 11 @39854 has 28 MA's), (12, 39917), (15, 39938), (16, 39941), (17, 39962), (19, 40001), (22, 40100),

Gene: Shweta_62 Start: 40218, Stop: 40550, Start Num: 11
Candidate Starts for Shweta_62:
(6, 40017), (8, 40065), (9, 40098), (Start: 11 @40218 has 28 MA's), (12, 40281), (15, 40302), (16, 40305), (17, 40326), (19, 40365), (22, 40464),

Gene: Silvafighter_69 Start: 40801, Stop: 41133, Start Num: 11
Candidate Starts for Silvafighter_69:
(2, 40513), (Start: 3 @40546 has 2 MA's), (Start: 4 @40552 has 2 MA's), (8, 40648), (10, 40705), (Start: 11 @40801 has 28 MA's), (12, 40864), (14, 40882), (15, 40885), (16, 40888), (18, 40933), (19, 40948), (21, 41044), (22, 41047),

Gene: Silvy_68 Start: 41891, Stop: 42223, Start Num: 11
Candidate Starts for Silvy_68:
(2, 41603), (Start: 3 @41636 has 2 MA's), (Start: 4 @41642 has 2 MA's), (8, 41738), (10, 41795), (Start: 11 @41891 has 28 MA's), (12, 41954), (14, 41972), (15, 41975), (16, 41978), (18, 42023), (19, 42038), (21, 42134), (22, 42137),

Gene: SkinnyPete_63 Start: 40760, Stop: 41338, Start Num: 5
Candidate Starts for SkinnyPete_63:
(1, 40589), (Start: 5 @40760 has 2 MA's), (7, 40817), (8, 40853), (10, 40910), (Start: 11 @41006 has 28 MA's), (12, 41069), (14, 41087), (15, 41090), (16, 41093), (17, 41114), (19, 41153), (22, 41252),

Gene: Smurph_67 Start: 41258, Stop: 41590, Start Num: 11
Candidate Starts for Smurph_67:
(2, 40970), (Start: 3 @41003 has 2 MA's), (Start: 4 @41009 has 2 MA's), (8, 41105), (10, 41162), (Start: 11 @41258 has 28 MA's), (12, 41321), (14, 41339), (15, 41342), (16, 41345), (18, 41390), (19, 41405), (21, 41501), (22, 41504),

Gene: Snekmaggedon_59 Start: 38535, Stop: 38867, Start Num: 11
Candidate Starts for Snekmaggedon_59:
(Start: 3 @38412 has 2 MA's), (6, 38466), (Start: 11 @38535 has 28 MA's), (12, 38598), (15, 38619), (16, 38622), (17, 38643), (19, 38682), (22, 38781),

Gene: SpongeBob_59 Start: 38535, Stop: 38867, Start Num: 11
Candidate Starts for SpongeBob_59:
(Start: 3 @38412 has 2 MA's), (6, 38466), (Start: 11 @38535 has 28 MA's), (12, 38598), (15, 38619), (16, 38622), (17, 38643), (19, 38682), (22, 38781),

Gene: Tapioca_65 Start: 41775, Stop: 42095, Start Num: 11
Candidate Starts for Tapioca_65:
(2, 41487), (Start: 3 @41520 has 2 MA's), (Start: 4 @41526 has 2 MA's), (8, 41622), (10, 41679), (Start: 11 @41775 has 28 MA's), (12, 41838), (13, 41850), (18, 41895), (19, 41910), (21, 42006), (22, 42009),

Gene: Xeno_64 Start: 39923, Stop: 40255, Start Num: 11
Candidate Starts for Xeno_64:
(6, 39722), (8, 39770), (9, 39803), (Start: 11 @39923 has 28 MA's), (12, 39986), (15, 40007), (16, 40010), (17, 40031), (19, 40070), (22, 40169),

Gene: Xerxes_67 Start: 41255, Stop: 41587, Start Num: 11

Candidate Starts for Xerxes_67:
(2, 40967), (Start: 3 @41000 has 2 MA's), (Start: 4 @41006 has 2 MA's), (8, 41102), (10, 41159), (Start: 11 @41255 has 28 MA's), (12, 41318), (14, 41336), (15, 41339), (16, 41342), (18, 41387), (19, 41402), (21, 41498), (22, 41501),