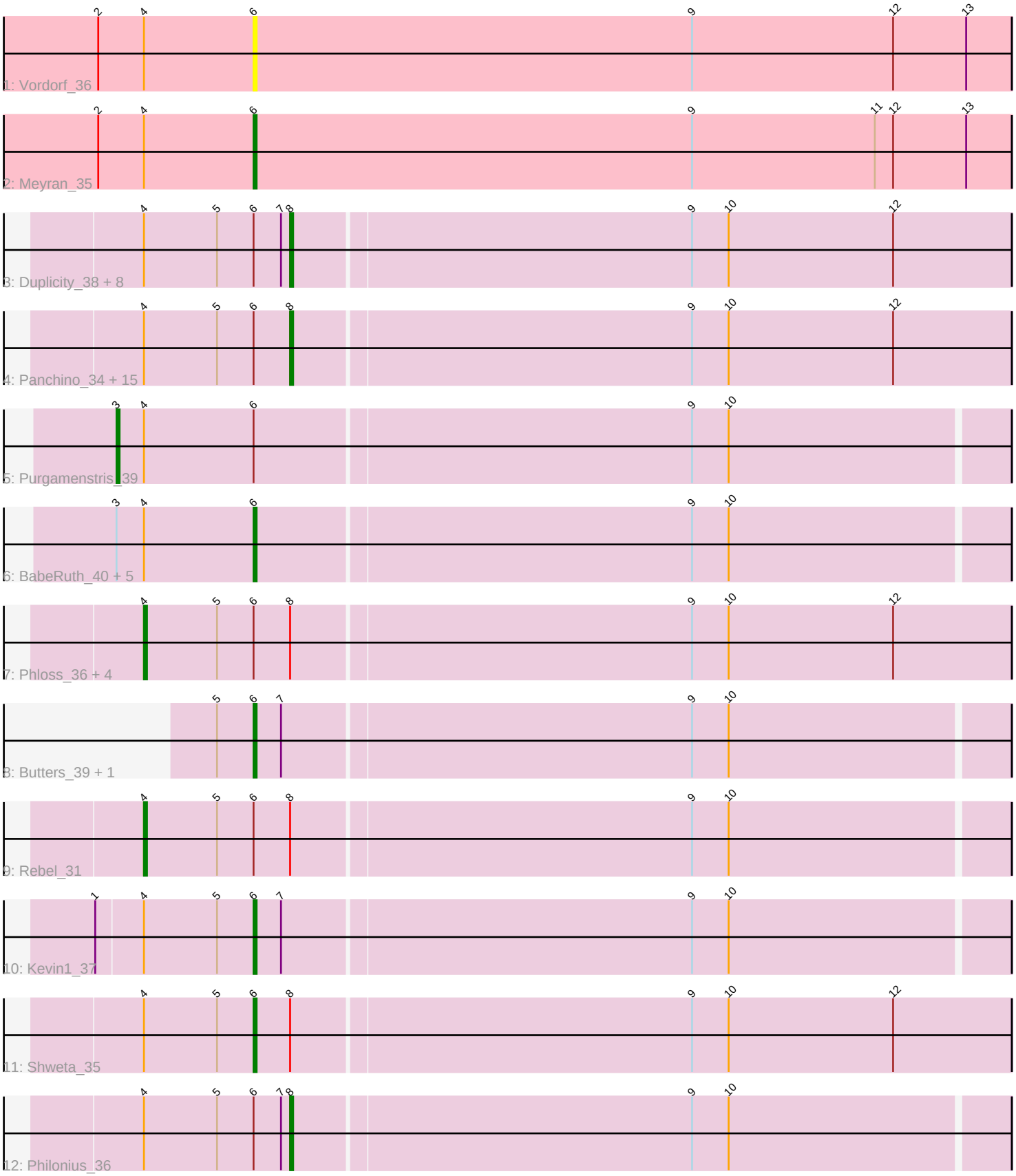
Pham 154799


2
4
6
9
12
13
1: Vordorf_36
2
4
6
9
11
12
13
2: Meyran_35
4
5
6
7
8
9
10
12
3: Duplicity_38 + 8
4
5
6
8
9
10
12
4: Panchino_34 + 15
3
4
6
9
10
5: Purgamenstris_39
3
4
6
9
10
6: BabeRuth_40 + 5
4
5
6
8
9
10
12
7: Phloss_36 + 4
5
6
7
9
10
8: Butters_39 + 1
4
5
6
8
9
10
9: Rebel_31
1
4
5
6
7
9
10
10: Kevin1_37
4
5
6
8
9
10
12
11: Shweta_35
4
5
6
7
8
9
10
12: Philonius_36

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 154799 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154799 has 45 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Vordorf_36
• Track 2 : Meyran_35
• Track 3 : Duplicity_38, Tapioca_39, Gex_38, Journey_39, Aggie_36, Silvy_38, Charlie_36, Scitech_35, Xeno_35
• Track 4 : Panchino_34, Melville_42, Jamie19_35, SkinnyPete_33, Phrann_39, Silvafighter_39, Magsby_38, Xerxes_38, Bosection6_38, Fulbright_37, Parmesanjohn_38, Smurph_38, SpongeBob_35, Snekmaggedon_35, MichelleMyBell_36, Pipsqueaks_38
• Track 5 : Purgamenstris_39
• Track 6 : BabeRuth_40, PhancyPhin_39, Raymond7_33, ShrimpFriedEgg_39, Redi_39, Nenae_39
• Track 7 : Phloss_36, Carcharodon_38, Andies_35, Chewbacca_39, Schnauzer_38
• Track 8 : Butters_39, Rubeelu_39
• Track 9 : Rebel_31
• Track 10 : Kevin1_37
• Track 11 : Shweta_35
• Track 12 : Philonius_36

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

The start number called the most often in the published annotations is 8, it was called in 21 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_36, Bosection6_38, Charlie_36, Duplicity_38, Fulbright_37, Gex_38, Jamie19_35, Journey_39, Magsby_38, Melville_42, MichelleMyBell_36, Panchino_34, Parmesanjohn_38, Philonius_36, Phrann_39, Pipsqueaks_38, Scitech_35, Silvafighter_39, Silvy_38, SkinnyPete_33, Smurph_38, Snekmaggedon_35, SpongeBob_35, Tapioca_39, Xeno_35, Xerxes_38,

Genes that have the "Most Annotated" start but do not call it:
• Andies_35, Carcharodon_38, Chewbacca_39, Phloss_36, Rebel_31, Schnauzer_38, Shweta_35,

Genes that do not have the "Most Annotated" start:
• BabeRuth_40, Butters_39, Kevin1_37, Meyran_35, Nenae_39, PhancyPhin_39, Purgamenstris_39, Raymond7_33, Redi_39, Rubeelu_39, ShrimpFriedEgg_39, Vordorf_36,

Summary by start number:

Start 3:
• Found in 7 of 45 (15.6%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Purgamenstris_39 (N),

Start 4:
• Found in 43 of 45 (95.6%) of genes in pham
• Manual Annotations of this start: 6 of 39
• Called 14.0% of time when present
• Phage (with cluster) where this start called: Andies_35 (N), Carcharodon_38 (N), Chewbacca_39 (N), Phloss_36 (N), Rebel_31 (N), Schnauzer_38 (N),

Start 6:
• Found in 45 of 45 (100.0%) of genes in pham
• Manual Annotations of this start: 11 of 39
• Called 26.7% of time when present
• Phage (with cluster) where this start called: BabeRuth_40 (N), Butters_39 (N), Kevin1_37 (N), Meyran_35 (DT), Nenae_39 (N), PhancyPhin_39 (N), Raymond7_33 (N), Redi_39 (N), Rubeelu_39 (N), ShrimpFriedEgg_39 (N), Shweta_35 (N), Vordorf_36 (DT),

Start 8:
• Found in 33 of 45 (73.3%) of genes in pham
• Manual Annotations of this start: 21 of 39
• Called 78.8% of time when present
• Phage (with cluster) where this start called: Aggie_36 (N), Bosection6_38 (N), Charlie_36 (N), Duplicity_38 (N), Fulbright_37 (N), Gex_38 (N), Jamie19_35 (N), Journey_39 (N), Magsby_38 (N), Melville_42 (N), MichelleMyBell_36 (N), Panchino_34 (N), Parmesanjohn_38 (N), Philonius_36 (N), Phrann_39 (N), Pipsqueaks_38 (N), Scitech_35 (N), Silvafighter_39 (N), Silvy_38 (N), SkinnyPete_33 (N), Smurph_38 (N), Snekmaggedon_35 (N), SpongeBob_35 (N), Tapioca_39 (N), Xeno_35 (N), Xerxes_38 (N),

Summary by clusters:

There are 2 clusters represented in this pham: DT, N,

Info for manual annotations of cluster DT:
•Start number 6 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster N:
•Start number 3 was manually annotated 1 time for cluster N.
•Start number 4 was manually annotated 6 times for cluster N.
•Start number 6 was manually annotated 10 times for cluster N.
•Start number 8 was manually annotated 21 times for cluster N.

Gene Information:

Gene: Aggie_36 Start: 27900, Stop: 28133, Start Num: 8
Candidate Starts for Aggie_36:
(Start: 4 @27852 has 6 MA's), (5, 27876), (Start: 6 @27888 has 11 MA's), (7, 27897), (Start: 8 @27900 has 21 MA's), (9, 28029), (10, 28041), (12, 28095),

Gene: Andies_35 Start: 28370, Stop: 28651, Start Num: 4
Candidate Starts for Andies_35:
(Start: 4 @28370 has 6 MA's), (5, 28394), (Start: 6 @28406 has 11 MA's), (Start: 8 @28418 has 21 MA's), (9, 28547), (10, 28559), (12, 28613),

Gene: BabeRuth_40 Start: 29534, Stop: 29776, Start Num: 6
Candidate Starts for BabeRuth_40:
(Start: 3 @29489 has 1 MA's), (Start: 4 @29498 has 6 MA's), (Start: 6 @29534 has 11 MA's), (9, 29675), (10, 29687),

Gene: Bosection6_38 Start: 27921, Stop: 28154, Start Num: 8
Candidate Starts for Bosection6_38:
(Start: 4 @27873 has 6 MA's), (5, 27897), (Start: 6 @27909 has 11 MA's), (Start: 8 @27921 has 21 MA's), (9, 28050), (10, 28062), (12, 28116),

Gene: Butters_39 Start: 29960, Stop: 30202, Start Num: 6
Candidate Starts for Butters_39:
(5, 29948), (Start: 6 @29960 has 11 MA's), (7, 29969), (9, 30101), (10, 30113),

Gene: Carcharodon_38 Start: 29181, Stop: 29462, Start Num: 4
Candidate Starts for Carcharodon_38:
(Start: 4 @29181 has 6 MA's), (5, 29205), (Start: 6 @29217 has 11 MA's), (Start: 8 @29229 has 21 MA's), (9, 29358), (10, 29370), (12, 29424),

Gene: Charlie_36 Start: 27920, Stop: 28153, Start Num: 8
Candidate Starts for Charlie_36:
(Start: 4 @27872 has 6 MA's), (5, 27896), (Start: 6 @27908 has 11 MA's), (7, 27917), (Start: 8 @27920 has 21 MA's), (9, 28049), (10, 28061), (12, 28115),

Gene: Chewbacca_39 Start: 29181, Stop: 29462, Start Num: 4
Candidate Starts for Chewbacca_39:
(Start: 4 @29181 has 6 MA's), (5, 29205), (Start: 6 @29217 has 11 MA's), (Start: 8 @29229 has 21 MA's), (9, 29358), (10, 29370), (12, 29424),

Gene: Duplicity_38 Start: 29238, Stop: 29471, Start Num: 8
Candidate Starts for Duplicity_38:
(Start: 4 @29190 has 6 MA's), (5, 29214), (Start: 6 @29226 has 11 MA's), (7, 29235), (Start: 8 @29238 has 21 MA's), (9, 29367), (10, 29379), (12, 29433),

Gene: Fulbright_37 Start: 28318, Stop: 28551, Start Num: 8
Candidate Starts for Fulbright_37:
(Start: 4 @28270 has 6 MA's), (5, 28294), (Start: 6 @28306 has 11 MA's), (Start: 8 @28318 has 21 MA's), (9, 28447), (10, 28459), (12, 28513),

Gene: Gex_38 Start: 29245, Stop: 29478, Start Num: 8
Candidate Starts for Gex_38:
(Start: 4 @29197 has 6 MA's), (5, 29221), (Start: 6 @29233 has 11 MA's), (7, 29242), (Start: 8 @29245 has 21 MA's), (9, 29374), (10, 29386), (12, 29440),

Gene: Jamie19_35 Start: 28299, Stop: 28532, Start Num: 8
Candidate Starts for Jamie19_35:
(Start: 4 @28251 has 6 MA's), (5, 28275), (Start: 6 @28287 has 11 MA's), (Start: 8 @28299 has 21 MA's), (9, 28428), (10, 28440), (12, 28494),

Gene: Journey_39 Start: 27920, Stop: 28153, Start Num: 8
Candidate Starts for Journey_39:
(Start: 4 @27872 has 6 MA's), (5, 27896), (Start: 6 @27908 has 11 MA's), (7, 27917), (Start: 8 @27920 has 21 MA's), (9, 28049), (10, 28061), (12, 28115),

Gene: Kevin1_37 Start: 29139, Stop: 29381, Start Num: 6
Candidate Starts for Kevin1_37:
(1, 29088), (Start: 4 @29103 has 6 MA's), (5, 29127), (Start: 6 @29139 has 11 MA's), (7, 29148), (9, 29280), (10, 29292),

Gene: Magsby_38 Start: 29246, Stop: 29479, Start Num: 8
Candidate Starts for Magsby_38:
(Start: 4 @29198 has 6 MA's), (5, 29222), (Start: 6 @29234 has 11 MA's), (Start: 8 @29246 has 21 MA's), (9, 29375), (10, 29387), (12, 29441),

Gene: Melville_42 Start: 29230, Stop: 29463, Start Num: 8
Candidate Starts for Melville_42:
(Start: 4 @29182 has 6 MA's), (5, 29206), (Start: 6 @29218 has 11 MA's), (Start: 8 @29230 has 21 MA's), (9, 29359), (10, 29371), (12, 29425),

Gene: Meyran_35 Start: 31028, Stop: 31276, Start Num: 6
Candidate Starts for Meyran_35:
(2, 30977), (Start: 4 @30992 has 6 MA's), (Start: 6 @31028 has 11 MA's), (9, 31172), (11, 31232), (12, 31238), (13, 31262),

Gene: MichelleMyBell_36 Start: 28237, Stop: 28470, Start Num: 8
Candidate Starts for MichelleMyBell_36:
(Start: 4 @28189 has 6 MA's), (5, 28213), (Start: 6 @28225 has 11 MA's), (Start: 8 @28237 has 21 MA's), (9, 28366), (10, 28378), (12, 28432),

Gene: Nenae_39 Start: 29536, Stop: 29778, Start Num: 6
Candidate Starts for Nenae_39:
(Start: 3 @29491 has 1 MA's), (Start: 4 @29500 has 6 MA's), (Start: 6 @29536 has 11 MA's), (9, 29677), (10, 29689),

Gene: Panchino_34 Start: 29645, Stop: 29878, Start Num: 8
Candidate Starts for Panchino_34:
(Start: 4 @29597 has 6 MA's), (5, 29621), (Start: 6 @29633 has 11 MA's), (Start: 8 @29645 has 21 MA's), (9, 29774), (10, 29786), (12, 29840),

Gene: Parmesanjohn_38 Start: 29249, Stop: 29482, Start Num: 8
Candidate Starts for Parmesanjohn_38:

(Start: 4 @29201 has 6 MA's), (5, 29225), (Start: 6 @29237 has 11 MA's), (Start: 8 @29249 has 21 MA's), (9, 29378), (10, 29390), (12, 29444),

Gene: PhancyPhin_39 Start: 29530, Stop: 29772, Start Num: 6
Candidate Starts for PhancyPhin_39:
(Start: 3 @29485 has 1 MA's), (Start: 4 @29494 has 6 MA's), (Start: 6 @29530 has 11 MA's), (9, 29671), (10, 29683),

Gene: Philonius_36 Start: 27911, Stop: 28141, Start Num: 8
Candidate Starts for Philonius_36:
(Start: 4 @27863 has 6 MA's), (5, 27887), (Start: 6 @27899 has 11 MA's), (7, 27908), (Start: 8 @27911 has 21 MA's), (9, 28040), (10, 28052),

Gene: Phloss_36 Start: 28608, Stop: 28889, Start Num: 4
Candidate Starts for Phloss_36:
(Start: 4 @28608 has 6 MA's), (5, 28632), (Start: 6 @28644 has 11 MA's), (Start: 8 @28656 has 21 MA's), (9, 28785), (10, 28797), (12, 28851),

Gene: Phrann_39 Start: 30325, Stop: 30558, Start Num: 8
Candidate Starts for Phrann_39:
(Start: 4 @30277 has 6 MA's), (5, 30301), (Start: 6 @30313 has 11 MA's), (Start: 8 @30325 has 21 MA's), (9, 30454), (10, 30466), (12, 30520),

Gene: Pipsqueaks_38 Start: 29226, Stop: 29459, Start Num: 8
Candidate Starts for Pipsqueaks_38:
(Start: 4 @29178 has 6 MA's), (5, 29202), (Start: 6 @29214 has 11 MA's), (Start: 8 @29226 has 21 MA's), (9, 29355), (10, 29367), (12, 29421),

Gene: Purgamenstris_39 Start: 29489, Stop: 29776, Start Num: 3
Candidate Starts for Purgamenstris_39:
(Start: 3 @29489 has 1 MA's), (Start: 4 @29498 has 6 MA's), (Start: 6 @29534 has 11 MA's), (9, 29675), (10, 29687),

Gene: Raymond7_33 Start: 29346, Stop: 29588, Start Num: 6
Candidate Starts for Raymond7_33:
(Start: 3 @29301 has 1 MA's), (Start: 4 @29310 has 6 MA's), (Start: 6 @29346 has 11 MA's), (9, 29487), (10, 29499),

Gene: Rebel_31 Start: 25628, Stop: 25906, Start Num: 4
Candidate Starts for Rebel_31:
(Start: 4 @25628 has 6 MA's), (5, 25652), (Start: 6 @25664 has 11 MA's), (Start: 8 @25676 has 21 MA's), (9, 25805), (10, 25817),

Gene: Redi_39 Start: 29533, Stop: 29775, Start Num: 6
Candidate Starts for Redi_39:
(Start: 3 @29488 has 1 MA's), (Start: 4 @29497 has 6 MA's), (Start: 6 @29533 has 11 MA's), (9, 29674), (10, 29686),

Gene: Rubeelu_39 Start: 29960, Stop: 30202, Start Num: 6
Candidate Starts for Rubeelu_39:
(5, 29948), (Start: 6 @29960 has 11 MA's), (7, 29969), (9, 30101), (10, 30113),

Gene: Schnauzer_38 Start: 29201, Stop: 29482, Start Num: 4

Candidate Starts for Schnauzer_38:
(Start: 4 @29201 has 6 MA's), (5, 29225), (Start: 6 @29237 has 11 MA's), (Start: 8 @29249 has 21 MA's), (9, 29378), (10, 29390), (12, 29444),

Gene: Scitech_35 Start: 27097, Stop: 27330, Start Num: 8
Candidate Starts for Scitech_35:
(Start: 4 @27049 has 6 MA's), (5, 27073), (Start: 6 @27085 has 11 MA's), (7, 27094), (Start: 8 @27097 has 21 MA's), (9, 27226), (10, 27238), (12, 27292),

Gene: ShrimpFriedEgg_39 Start: 29533, Stop: 29775, Start Num: 6
Candidate Starts for ShrimpFriedEgg_39:
(Start: 3 @29488 has 1 MA's), (Start: 4 @29497 has 6 MA's), (Start: 6 @29533 has 11 MA's), (9, 29674), (10, 29686),

Gene: Shweta_35 Start: 28417, Stop: 28662, Start Num: 6
Candidate Starts for Shweta_35:
(Start: 4 @28381 has 6 MA's), (5, 28405), (Start: 6 @28417 has 11 MA's), (Start: 8 @28429 has 21 MA's), (9, 28558), (10, 28570), (12, 28624),

Gene: Silvafighter_39 Start: 29222, Stop: 29455, Start Num: 8
Candidate Starts for Silvafighter_39:
(Start: 4 @29174 has 6 MA's), (5, 29198), (Start: 6 @29210 has 11 MA's), (Start: 8 @29222 has 21 MA's), (9, 29351), (10, 29363), (12, 29417),

Gene: Silvy_38 Start: 27900, Stop: 28133, Start Num: 8
Candidate Starts for Silvy_38:
(Start: 4 @27852 has 6 MA's), (5, 27876), (Start: 6 @27888 has 11 MA's), (7, 27897), (Start: 8 @27900 has 21 MA's), (9, 28029), (10, 28041), (12, 28095),

Gene: SkinnyPete_33 Start: 26960, Stop: 27193, Start Num: 8
Candidate Starts for SkinnyPete_33:
(Start: 4 @26912 has 6 MA's), (5, 26936), (Start: 6 @26948 has 11 MA's), (Start: 8 @26960 has 21 MA's), (9, 27089), (10, 27101), (12, 27155),

Gene: Smurph_38 Start: 29249, Stop: 29482, Start Num: 8
Candidate Starts for Smurph_38:
(Start: 4 @29201 has 6 MA's), (5, 29225), (Start: 6 @29237 has 11 MA's), (Start: 8 @29249 has 21 MA's), (9, 29378), (10, 29390), (12, 29444),

Gene: Snekmaggedon_35 Start: 28299, Stop: 28532, Start Num: 8
Candidate Starts for Snekmaggedon_35:
(Start: 4 @28251 has 6 MA's), (5, 28275), (Start: 6 @28287 has 11 MA's), (Start: 8 @28299 has 21 MA's), (9, 28428), (10, 28440), (12, 28494),

Gene: SpongeBob_35 Start: 28299, Stop: 28532, Start Num: 8
Candidate Starts for SpongeBob_35:
(Start: 4 @28251 has 6 MA's), (5, 28275), (Start: 6 @28287 has 11 MA's), (Start: 8 @28299 has 21 MA's), (9, 28428), (10, 28440), (12, 28494),

Gene: Tapioca_39 Start: 29215, Stop: 29448, Start Num: 8
Candidate Starts for Tapioca_39:
(Start: 4 @29167 has 6 MA's), (5, 29191), (Start: 6 @29203 has 11 MA's), (7, 29212), (Start: 8 @29215 has 21 MA's), (9, 29344), (10, 29356), (12, 29410),

Gene: Vordorf_36 Start: 30303, Stop: 30551, Start Num: 6
Candidate Starts for Vordorf_36:
(2, 30252), (Start: 4 @30267 has 6 MA's), (Start: 6 @30303 has 11 MA's), (9, 30447), (12, 30513), (13, 30537),

Gene: Xeno_35 Start: 27686, Stop: 27919, Start Num: 8
Candidate Starts for Xeno_35:
(Start: 4 @27638 has 6 MA's), (5, 27662), (Start: 6 @27674 has 11 MA's), (7, 27683), (Start: 8 @27686 has 21 MA's), (9, 27815), (10, 27827), (12, 27881),

Gene: Xerxes_38 Start: 29246, Stop: 29479, Start Num: 8
Candidate Starts for Xerxes_38:
(Start: 4 @29198 has 6 MA's), (5, 29222), (Start: 6 @29234 has 11 MA's), (Start: 8 @29246 has 21 MA's), (9, 29375), (10, 29387), (12, 29441),