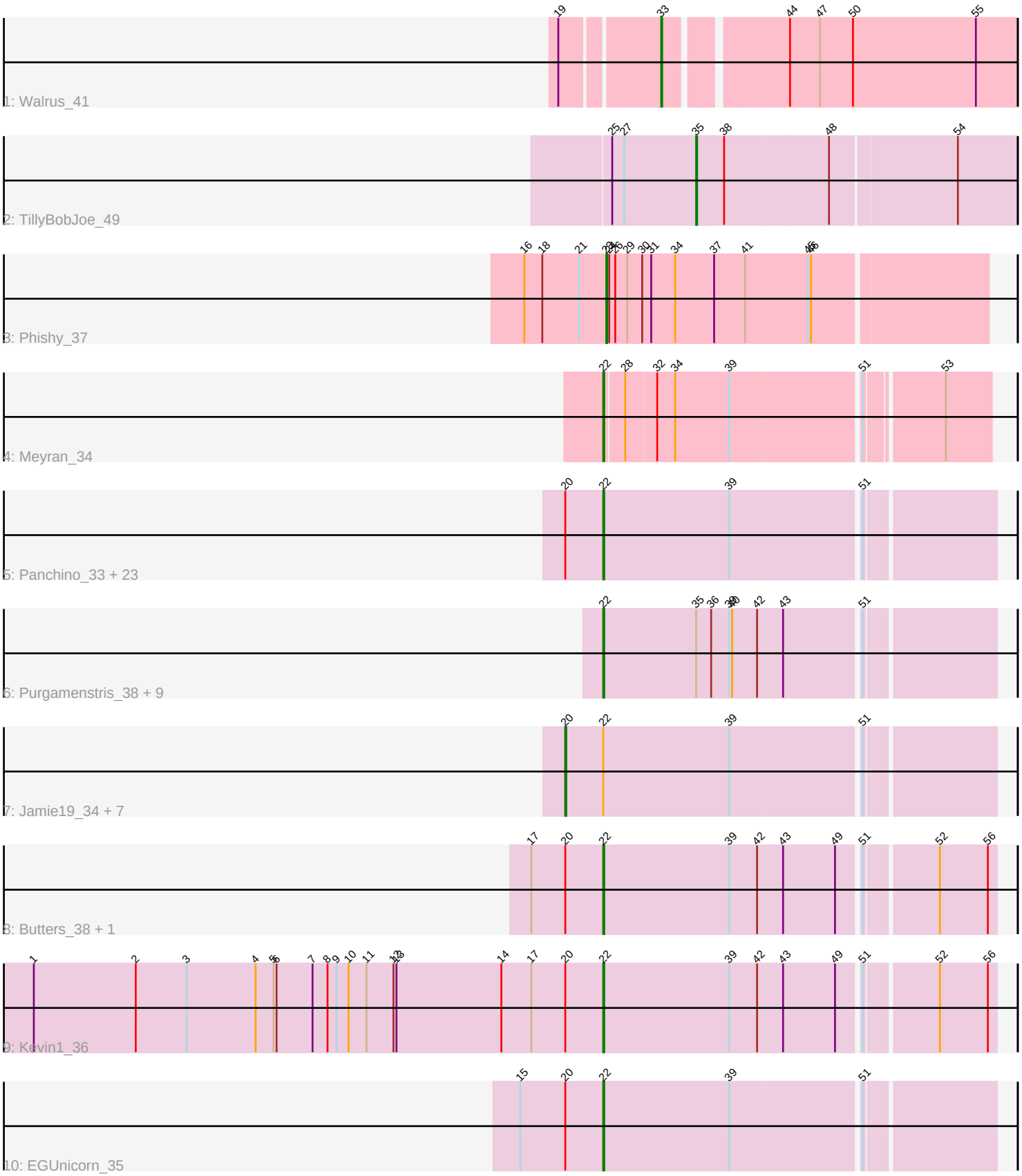
Pham 294823


1: Walrus_41
2: TillyBobJoe_49
3: Phishy_37
4: Meyran_34
5: Panchino_33 + 23
6: Purgamenstris_38 + 9
7: Jamie19_34 + 7
8: Butters_38 + 1
9: Kevin1_36
10: EGUnicorn_35

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 294823 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294823 has 50 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Walrus_41
• Track 2 : TillyBobJoe_49
• Track 3 : Phishy_37
• Track 4 : Meyran_34
• Track 5 : Panchino_33, Carcharodon_37, Duplicity_37, Tapioca_38, Phloss_35, Phrann_38, MichelleMyBell_35, Gex_37, Silvafighter_38, Fulbright_36, Journey_35, Aggie_35, Silvy_35, Charlie_35, Magsby_37, Melville_39, Andies_34, Smurph_37, Tortoise12_35, SpongeBob_34, Parmesanjohn_37, Snekmaggedon_34, Xerxes_37, Philonius_35
• Track 6 : Purgamenstris_38, Hanako_38, Spinach_38, PhancyPhin_38, Nenae_38, Raymond7_32, Impisi_40, BabeRuth_39, Redi_38, ShrimpFriedEgg_38
• Track 7 : Jamie19_34, Bosection6_35, SkinnyPete_32, Xeno_34, Shweta_34, Chewbacca_38, Schnauzer_37, Pipsqueaks_37
• Track 8 : Butters_38, Rubeelu_38
• Track 9 : Kevin1_36
• Track 10 : EGUnicorn_35

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

The start number called the most often in the published annotations is 22, it was called in 38 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aggie_35, Andies_34, BabeRuth_39, Butters_38, Carcharodon_37, Charlie_35, Duplicity_37, EGUnicorn_35, Fulbright_36, Gex_37, Hanako_38, Impisi_40, Journey_35, Kevin1_36, Magsby_37, Melville_39, Meyran_34, MichelleMyBell_35, Nenae_38, Panchino_33, Parmesanjohn_37, PhancyPhin_38, Philonius_35, Phloss_35, Phrann_38, Purgamenstris_38, Raymond7_32, Redi_38, Rubeelu_38, ShrimpFriedEgg_38, Silvafighter_38, Silvy_35, Smurph_37, Snekmaggedon_34, Spinach_38, SpongeBob_34, Tapioca_38, Tortoise12_35, Xerxes_37,

Genes that have the "Most Annotated" start but do not call it:
• Bosection6_35, Chewbacca_38, Jamie19_34, Pipsqueaks_37, Schnauzer_37, Shweta_34, SkinnyPete_32, Xeno_34,

Genes that do not have the "Most Annotated" start:
• Phishy_37, TillyBobJoe_49, Walrus_41,

Summary by start number:

Start 20:
• Found in 36 of 50 (72.0%) of genes in pham
• Manual Annotations of this start: 8 of 49
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Bosection6_35 (N), Chewbacca_38 (N), Jamie19_34 (N), Pipsqueaks_37 (N), Schnauzer_37 (N), Shweta_34 (N), SkinnyPete_32 (N), Xeno_34 (N),

Start 22:
• Found in 47 of 50 (94.0%) of genes in pham
• Manual Annotations of this start: 38 of 49
• Called 83.0% of time when present
• Phage (with cluster) where this start called: Aggie_35 (N), Andies_34 (N), BabeRuth_39 (N), Butters_38 (N), Carcharodon_37 (N), Charlie_35 (N), Duplicity_37 (N), EGUnicorn_35 (N), Fulbright_36 (N), Gex_37 (N), Hanako_38 (N), Impisi_40 (N), Journey_35 (N), Kevin1_36 (N), Magsby_37 (N), Melville_39 (N), Meyran_34 (DT), MichelleMyBell_35 (N), Nenae_38 (N), Panchino_33 (N), Parmesanjohn_37 (N), PhancyPhin_38 (N), Philonius_35 (N), Phloss_35 (N), Phrann_38 (N), Purgamenstris_38 (N), Raymond7_32 (N), Redi_38 (N), Rubeelu_38 (N), ShrimpFriedEgg_38 (N), Silvafighter_38 (N), Silvy_35 (N), Smurph_37 (N), Snekmaggedon_34 (N), Spinach_38 (N), SpongeBob_34 (N), Tapioca_38 (N), Tortoise12_35 (N), Xerxes_37 (N),

Start 23:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phishy_37 (DT),

Start 33:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Walrus_41 (CV),

Start 35:
• Found in 11 of 50 (22.0%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 9.1% of time when present
• Phage (with cluster) where this start called: TillyBobJoe_49 (DC1),

Summary by clusters:

There are 4 clusters represented in this pham: DT, DC1, CV, N,

Info for manual annotations of cluster CV:
•Start number 33 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DC1:
•Start number 35 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DT:
•Start number 22 was manually annotated 1 time for cluster DT.
•Start number 23 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster N:
•Start number 20 was manually annotated 8 times for cluster N.
•Start number 22 was manually annotated 37 times for cluster N.

Gene Information:

Gene: Aggie_35 Start: 27766, Stop: 27395, Start Num: 22
Candidate Starts for Aggie_35:
(Start: 20 @27802 has 8 MA's), (Start: 22 @27766 has 38 MA's), (39, 27640), (51, 27517),

Gene: Andies_34 Start: 28284, Stop: 27913, Start Num: 22
Candidate Starts for Andies_34:
(Start: 20 @28320 has 8 MA's), (Start: 22 @28284 has 38 MA's), (39, 28158), (51, 28035),

Gene: BabeRuth_39 Start: 29411, Stop: 29040, Start Num: 22
Candidate Starts for BabeRuth_39:
(Start: 22 @29411 has 38 MA's), (Start: 35 @29318 has 1 MA's), (36, 29303), (39, 29285), (40, 29282), (42, 29258), (43, 29234), (51, 29162),

Gene: Bosection6_35 Start: 27823, Stop: 27416, Start Num: 20
Candidate Starts for Bosection6_35:
(Start: 20 @27823 has 8 MA's), (Start: 22 @27787 has 38 MA's), (39, 27661), (51, 27538),

Gene: Butters_38 Start: 29838, Stop: 29467, Start Num: 22
Candidate Starts for Butters_38:
(17, 29907), (Start: 20 @29874 has 8 MA's), (Start: 22 @29838 has 38 MA's), (39, 29712), (42, 29685), (43, 29661), (49, 29610), (51, 29589), (52, 29523), (56, 29475),

Gene: Carcharodon_37 Start: 29095, Stop: 28724, Start Num: 22
Candidate Starts for Carcharodon_37:
(Start: 20 @29131 has 8 MA's), (Start: 22 @29095 has 38 MA's), (39, 28969), (51, 28846),

Gene: Charlie_35 Start: 27786, Stop: 27415, Start Num: 22
Candidate Starts for Charlie_35:
(Start: 20 @27822 has 8 MA's), (Start: 22 @27786 has 38 MA's), (39, 27660), (51, 27537),

Gene: Chewbacca_38 Start: 29131, Stop: 28724, Start Num: 20
Candidate Starts for Chewbacca_38:
(Start: 20 @29131 has 8 MA's), (Start: 22 @29095 has 38 MA's), (39, 28969), (51, 28846),

Gene: Duplicity_37 Start: 29104, Stop: 28733, Start Num: 22
Candidate Starts for Duplicity_37:
(Start: 20 @29140 has 8 MA's), (Start: 22 @29104 has 38 MA's), (39, 28978), (51, 28855),

Gene: EGUnicorn_35 Start: 27786, Stop: 27415, Start Num: 22
Candidate Starts for EGUnicorn_35:
(15, 27867), (Start: 20 @27822 has 8 MA's), (Start: 22 @27786 has 38 MA's), (39, 27660), (51, 27537),

Gene: Fulbright_36 Start: 28184, Stop: 27813, Start Num: 22
Candidate Starts for Fulbright_36:
(Start: 20 @28220 has 8 MA's), (Start: 22 @28184 has 38 MA's), (39, 28058), (51, 27935),

Gene: Gex_37 Start: 29111, Stop: 28740, Start Num: 22
Candidate Starts for Gex_37:
(Start: 20 @29147 has 8 MA's), (Start: 22 @29111 has 38 MA's), (39, 28985), (51, 28862),

Gene: Hanako_38 Start: 29410, Stop: 29039, Start Num: 22
Candidate Starts for Hanako_38:
(Start: 22 @29410 has 38 MA's), (Start: 35 @29317 has 1 MA's), (36, 29302), (39, 29284), (40, 29281), (42, 29257), (43, 29233), (51, 29161),

Gene: Impisi_40 Start: 29966, Stop: 29595, Start Num: 22
Candidate Starts for Impisi_40:
(Start: 22 @29966 has 38 MA's), (Start: 35 @29873 has 1 MA's), (36, 29858), (39, 29840), (40, 29837), (42, 29813), (43, 29789), (51, 29717),

Gene: Jamie19_34 Start: 28201, Stop: 27794, Start Num: 20
Candidate Starts for Jamie19_34:
(Start: 20 @28201 has 8 MA's), (Start: 22 @28165 has 38 MA's), (39, 28039), (51, 27916),

Gene: Journey_35 Start: 27786, Stop: 27415, Start Num: 22
Candidate Starts for Journey_35:
(Start: 20 @27822 has 8 MA's), (Start: 22 @27786 has 38 MA's), (39, 27660), (51, 27537),

Gene: Kevin1_36 Start: 29017, Stop: 28646, Start Num: 22
Candidate Starts for Kevin1_36:
(1, 29584), (2, 29482), (3, 29431), (4, 29362), (5, 29344), (6, 29341), (7, 29305), (8, 29290), (9, 29281), (10, 29269), (11, 29251), (12, 29224), (13, 29221), (14, 29116), (17, 29086), (Start: 20 @29053 has 8 MA's), (Start: 22 @29017 has 38 MA's), (39, 28891), (42, 28864), (43, 28840), (49, 28789), (51, 28768), (52, 28702), (56, 28654),

Gene: Magsby_37 Start: 29112, Stop: 28741, Start Num: 22
Candidate Starts for Magsby_37:
(Start: 20 @29148 has 8 MA's), (Start: 22 @29112 has 38 MA's), (39, 28986), (51, 28863),

Gene: Melville_39 Start: 29096, Stop: 28725, Start Num: 22
Candidate Starts for Melville_39:
(Start: 20 @29132 has 8 MA's), (Start: 22 @29096 has 38 MA's), (39, 28970), (51, 28847),

Gene: Meyran_34 Start: 30905, Stop: 30549, Start Num: 22
Candidate Starts for Meyran_34:
(Start: 22 @30905 has 38 MA's), (28, 30887), (32, 30857), (34, 30839), (39, 30785), (51, 30662), (53, 30593),

Gene: MichelleMyBell_35 Start: 28103, Stop: 27732, Start Num: 22
Candidate Starts for MichelleMyBell_35:

(Start: 20 @28139 has 8 MA's), (Start: 22 @28103 has 38 MA's), (39, 27977), (51, 27854),

Gene: Nenae_38 Start: 29413, Stop: 29042, Start Num: 22
Candidate Starts for Nenae_38:
(Start: 22 @29413 has 38 MA's), (Start: 35 @29320 has 1 MA's), (36, 29305), (39, 29287), (40, 29284), (42, 29260), (43, 29236), (51, 29164),

Gene: Panchino_33 Start: 29511, Stop: 29140, Start Num: 22
Candidate Starts for Panchino_33:
(Start: 20 @29547 has 8 MA's), (Start: 22 @29511 has 38 MA's), (39, 29385), (51, 29262),

Gene: Parmesanjohn_37 Start: 29115, Stop: 28744, Start Num: 22
Candidate Starts for Parmesanjohn_37:
(Start: 20 @29151 has 8 MA's), (Start: 22 @29115 has 38 MA's), (39, 28989), (51, 28866),

Gene: PhancyPhin_38 Start: 29407, Stop: 29036, Start Num: 22
Candidate Starts for PhancyPhin_38:
(Start: 22 @29407 has 38 MA's), (Start: 35 @29314 has 1 MA's), (36, 29299), (39, 29281), (40, 29278), (42, 29254), (43, 29230), (51, 29158),

Gene: Philonius_35 Start: 27777, Stop: 27406, Start Num: 22
Candidate Starts for Philonius_35:
(Start: 20 @27813 has 8 MA's), (Start: 22 @27777 has 38 MA's), (39, 27651), (51, 27528),

Gene: Phishy_37 Start: 31530, Stop: 31159, Start Num: 23
Candidate Starts for Phishy_37:
(16, 31611), (18, 31593), (21, 31557), (Start: 23 @31530 has 1 MA's), (24, 31527), (26, 31521), (29, 31509), (30, 31494), (31, 31485), (34, 31461), (37, 31422), (41, 31392), (45, 31329), (46, 31326),

Gene: Phloss_35 Start: 28522, Stop: 28151, Start Num: 22
Candidate Starts for Phloss_35:
(Start: 20 @28558 has 8 MA's), (Start: 22 @28522 has 38 MA's), (39, 28396), (51, 28273),

Gene: Phrann_38 Start: 30191, Stop: 29820, Start Num: 22
Candidate Starts for Phrann_38:
(Start: 20 @30227 has 8 MA's), (Start: 22 @30191 has 38 MA's), (39, 30065), (51, 29942),

Gene: Pipsqueaks_37 Start: 29128, Stop: 28721, Start Num: 20
Candidate Starts for Pipsqueaks_37:
(Start: 20 @29128 has 8 MA's), (Start: 22 @29092 has 38 MA's), (39, 28966), (51, 28843),

Gene: Purgamenstris_38 Start: 29411, Stop: 29040, Start Num: 22
Candidate Starts for Purgamenstris_38:
(Start: 22 @29411 has 38 MA's), (Start: 35 @29318 has 1 MA's), (36, 29303), (39, 29285), (40, 29282), (42, 29258), (43, 29234), (51, 29162),

Gene: Raymond7_32 Start: 29223, Stop: 28852, Start Num: 22
Candidate Starts for Raymond7_32:
(Start: 22 @29223 has 38 MA's), (Start: 35 @29130 has 1 MA's), (36, 29115), (39, 29097), (40, 29094), (42, 29070), (43, 29046), (51, 28974),

Gene: Redi_38 Start: 29410, Stop: 29039, Start Num: 22
Candidate Starts for Redi_38:

(Start: 22 @29410 has 38 MA's), (Start: 35 @29317 has 1 MA's), (36, 29302), (39, 29284), (40, 29281), (42, 29257), (43, 29233), (51, 29161),

Gene: Rubeelu_38 Start: 29838, Stop: 29467, Start Num: 22
Candidate Starts for Rubeelu_38:
(17, 29907), (Start: 20 @29874 has 8 MA's), (Start: 22 @29838 has 38 MA's), (39, 29712), (42, 29685), (43, 29661), (49, 29610), (51, 29589), (52, 29523), (56, 29475),

Gene: Schnauzer_37 Start: 29151, Stop: 28744, Start Num: 20
Candidate Starts for Schnauzer_37:
(Start: 20 @29151 has 8 MA's), (Start: 22 @29115 has 38 MA's), (39, 28989), (51, 28866),

Gene: ShrimpFriedEgg_38 Start: 29410, Stop: 29039, Start Num: 22
Candidate Starts for ShrimpFriedEgg_38:
(Start: 22 @29410 has 38 MA's), (Start: 35 @29317 has 1 MA's), (36, 29302), (39, 29284), (40, 29281), (42, 29257), (43, 29233), (51, 29161),

Gene: Shweta_34 Start: 28331, Stop: 27924, Start Num: 20
Candidate Starts for Shweta_34:
(Start: 20 @28331 has 8 MA's), (Start: 22 @28295 has 38 MA's), (39, 28169), (51, 28046),

Gene: Silvafighter_38 Start: 29088, Stop: 28717, Start Num: 22
Candidate Starts for Silvafighter_38:
(Start: 20 @29124 has 8 MA's), (Start: 22 @29088 has 38 MA's), (39, 28962), (51, 28839),

Gene: Silvy_35 Start: 27766, Stop: 27395, Start Num: 22
Candidate Starts for Silvy_35:
(Start: 20 @27802 has 8 MA's), (Start: 22 @27766 has 38 MA's), (39, 27640), (51, 27517),

Gene: SkinnyPete_32 Start: 26862, Stop: 26455, Start Num: 20
Candidate Starts for SkinnyPete_32:
(Start: 20 @26862 has 8 MA's), (Start: 22 @26826 has 38 MA's), (39, 26700), (51, 26577),

Gene: Smurph_37 Start: 29115, Stop: 28744, Start Num: 22
Candidate Starts for Smurph_37:
(Start: 20 @29151 has 8 MA's), (Start: 22 @29115 has 38 MA's), (39, 28989), (51, 28866),

Gene: Snekmaggedon_34 Start: 28165, Stop: 27794, Start Num: 22
Candidate Starts for Snekmaggedon_34:
(Start: 20 @28201 has 8 MA's), (Start: 22 @28165 has 38 MA's), (39, 28039), (51, 27916),

Gene: Spinach_38 Start: 29410, Stop: 29039, Start Num: 22
Candidate Starts for Spinach_38:
(Start: 22 @29410 has 38 MA's), (Start: 35 @29317 has 1 MA's), (36, 29302), (39, 29284), (40, 29281), (42, 29257), (43, 29233), (51, 29161),

Gene: SpongeBob_34 Start: 28165, Stop: 27794, Start Num: 22
Candidate Starts for SpongeBob_34:
(Start: 20 @28201 has 8 MA's), (Start: 22 @28165 has 38 MA's), (39, 28039), (51, 27916),

Gene: Tapioca_38 Start: 29081, Stop: 28710, Start Num: 22
Candidate Starts for Tapioca_38:
(Start: 20 @29117 has 8 MA's), (Start: 22 @29081 has 38 MA's), (39, 28955), (51, 28832),

Gene: TillyBobJoe_49 Start: 39897, Stop: 39586, Start Num: 35
Candidate Starts for TillyBobJoe_49:
(25, 39981), (27, 39969), (Start: 35 @39897 has 1 MA's), (38, 39870), (48, 39768), (54, 39645),

Gene: Tortoise12_35 Start: 27798, Stop: 27427, Start Num: 22
Candidate Starts for Tortoise12_35:
(Start: 20 @27834 has 8 MA's), (Start: 22 @27798 has 38 MA's), (39, 27672), (51, 27549),

Gene: Walrus_41 Start: 32609, Stop: 32277, Start Num: 33
Candidate Starts for Walrus_41:
(19, 32699), (Start: 33 @32609 has 1 MA's), (44, 32504), (47, 32474), (50, 32441), (55, 32318),

Gene: Xeno_34 Start: 27588, Stop: 27181, Start Num: 20
Candidate Starts for Xeno_34:
(Start: 20 @27588 has 8 MA's), (Start: 22 @27552 has 38 MA's), (39, 27426), (51, 27303),

Gene: Xerxes_37 Start: 29112, Stop: 28741, Start Num: 22
Candidate Starts for Xerxes_37:
(Start: 20 @29148 has 8 MA's), (Start: 22 @29112 has 38 MA's), (39, 28986), (51, 28863),